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# SOUTHWESTERN OREGON COMMUNITY COLLEGE 2025-2026

## WELCOME TO SOUTHWESTERN!

At Southwestern Oregon Community College, we are extremely happy that Southwestern is your choice for education. We value the trust you've put in us.

College challenges people to improve their lives and that's what our faculty and staff strive to do every single day on our Coos and Curry campuses. We make sure no matter what your goals are, you are successful, and you continue to learn throughout your life.

Patty M. Scott, Ed.D.

President

## SOUTHWESTERN MISSION STATEMENT

### MISSION STATEMENT

Southwestern Oregon Community College fulfills the educational and cultural needs of our diverse communities by providing equitable access to exceptional teaching and learning in a collaborative, engaging, sustainable environment, which supports innovation, lifelong enrichment, and contribution to global society.

*(Adopted December 7, 2020)*

### GUIDING PRINCIPLES

- Intentional Excellence
- Lifelong Learning
- Student Centeredness
- Collaborative Innovation

*(Adopted December 7, 2020)*

### VISION STATEMENT

Southwestern leads and inspires lifelong learning.

*(Adopted June 26, 2006)*

## SOUTHWESTERN HISTORY

Southwestern Oregon Community College is located within two miles of the Pacific Ocean in an area of scenic beauty and mild climate.

The 153-acre institution lies completely within the city of Coos Bay and is bordered on the north and east by the city of North Bend.

The College was formed in a tax district election in May 1961. It included Coos and western Douglas counties. On July 1, 1995, Curry County joined the College district. The district now encompasses 3,648 square miles with a population of more than 92,000. The College is the only public, post-secondary institution in the region.

Enrollment has grown from 266 students in 1961 to nearly 8,000 students annually. Staff has grown from 15 to more than 50 full-time faculty and from 11 to over 180 part-time instructors in undergraduate and community education. Cultural and athletic events at the College attract over 20,000 men, women, and children each year.

During the early years, Southwestern held classes in surplus U.S. Naval facilities and in Coos Bay and North Bend school district buildings. Today's main campus is located on the shore of Upper Empire Lake in a natural tract of coastal pine.

Permanent campus construction began in 1963. A majority of the campus was built between 1965 and 1969. A second phase of construction, which began in 1979, provided new and remodeled shops and laboratories, and expanded facilities for several programs. The expansion included a student center with a cafeteria, student activity space, student government offices, and meeting rooms for school and community activities.

The College entered a new building phase in 1994 with the construction of a new student services and general classroom building. This was followed immediately by a comprehensive Student First Stop Center, a Family Center, student housing, a new baseball field, an indoor athletic practice facility and a state-of-the-art performing arts and conference center.

The residents of Curry County voted to annex themselves to the district in 1995; the College area nearly doubled in size, extending to the California border. A full range of college services are now offered in Curry County.

As a partner in the South Coast's economic development, Southwestern offers students and industrial partners education that meets their needs. Whether students enroll for a short course, a two-year transfer, or a two-year associate's degree, they are preparing for a rewarding future.

## ACCREDITATION

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

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

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

**Northwest Commission on Colleges and Universities**
8060 165th Avenue N.E., Suite 100
Redmond, Washington 98052
(425) 558-4224
www.nwccu.org

The Northwest Commission on Colleges and Universities is a nationally recognized regional accrediting **agency** by the **U.S. Department of Education**

Copies of the College's accreditation, self-study reports, approvals, and certifications are available for review by contacting the Accreditation Liaison Officer or requesting to review copies of reports which have been made available at the Library (not all reports are available at the Library at this time), located in Tioga Hall or posted on the **Institutional Report Archives** webpage. NWCCU accreditation status is granted as an institution; any program specialized accreditation or approvals are granted by other agencies.

# SOUTHWESTERN PROGRAM ACCREDITATION

## OREGON COAST CULINARY INSTITUTE (OCCI) CULINARY AND BAKING & PASTRY PROGRAMS

The Culinary Arts and the Baking & Pastry Programs are accredited by the American Culinary Federation (ACF). This accreditation is the highest level available for initial accreditation by the ACF — the premier professional chefs' organization in North America, focusing its efforts on offering education, apprenticeship and industry certification. With the accreditation, OCCI's graduates will automatically gain the title of certified culinarian upon graduation, along with their associate degrees.

## REGISTERED NURSING EDUCATION PROGRAM

The Oregon State Board of Nursing (OSBN) is the state agency responsible for overseeing the standards for approval of nursing programs in Oregon. Southwestern is an OSBN approved Registered Nursing Education Program. The Oregon State Board of Nursing monitors continuing compliance with the Standards for Approval. The standards address faculty approval, curriculum approval, and student standards and records as well as several other program specific approvals.

## PARAMEDICINE PROGRAM ACCREDITATION

The State of Oregon Office of Workforce Development, in partnership with the State's Emergency Medical Services Office, reviews programs every five years for each college offering Emergency Medical Services (EMS) training. The program approval encompasses all aspects of a training program, including administrative support, curriculum, facilities, funding, instructor credentials, and program management.

Southwestern began offering the two-year paramedic degree in fall 2008. The first on-site visit for program approval took place on May 28 and 29, 2009. To date, the program continues to meet program accreditation expectations.

**NOTE:** Southwestern Oregon Community College (SWOCC) publishes a yearly online course catalog for student convenience. Every effort has been made to ensure the accuracy of the information contained in this catalog and SWOCC reserves the right to revise the content as needed during the academic year.  SWOCC strongly recommends that students work with academic advisors when planning future terms.

# ACADEMIC CALENDAR

## SUMMER 2025-2026 (8 WEEKS)

**May 5**
Registration for Summer/Fall. *Make payment arrangements with Student First Stop Center at time of registration.*

**May 2**
Summer Graduation Applications

**June 14**
Check-out day for housing residents not returning Summer Term

**June 16**
Summer campus store charging begins

**June 18**
Waitlist Completed (see instructor)

**June 19**
Campus Closed (Juneteenth)

**June 21**
Check-In Day for housing residents

**June 23**
**Day and night classes begin**

**June 25**
Last day to register without instructor consent

**July 2**
Last day of financial aid charging textbooks & course materials.

Last day for refunds and to withdraw without being assigned a "W" (For course length 5 weeks or longer)

Financial Aid students must complete all add/drops, including waitlist classes, for correct check disbursement (Funds disbursed based on today's enrollment status)

**July 3**
**CAMPUS CLOSED (Independence Day Observed)**

**July 10**
Financial Aid disbursement begins

**July 24**
Last day to change to audit

**August 1**
Fall Term Graduations applications due

**August 6**
Last day to withdraw: No refunds – will receive "W" on transcript

**August 11-14**
**Finals Week**

Textbook buyback; buyback will be extended for classes that continue past August 17

**August 16**
Check-Out Day for housing residents

**August 19-September 13**
Term Break (Fall classes begin 9/16/2024)

**August 26**
Grades available via myLakerLink

**The campus will be closed on Fridays during the Summer beginning June 16 through August 25 (11 weeks).**

Note: Academic calendar subject to change. Please check the Schedule of Classes each term for registration information.

## FALL 2025-2026 (11 WEEKS)

**May 5 -September 24**
Registration for Fall term. *Make payment arrangements with Student Success Center at time of registration.*

### September 1
### CAMPUS CLOSED (Labor Day)

September 2

Fall Term Campus Store textbook charging begins

### September 5
Check-In Day for housing residents

**September 8**
**CAMPUSES CLOSED (Staff In-Service)**

**September 11**
Waitlist Completed (See instructor)

**September 17**
Last day to register without instructor consent

**September 18 - 24**
Registration for Fall Term with instructor consent only

**September 24**
Last day for financial aid charging textbooks & class materials

Last day for refunds and to withdraw without being assigned a "W" (For course length 5 weeks or longer)

Financial Aid students must complete all add/drops, including waitlist classes, for correct check disbursement (Funds disbursed based on today's enrollment status)

**October 3**
Financial Aid disbursement begins

**October 24**
Last day to change to audit

**October 31**
Winter Graduation Applications Due

**November 1**
Winter graduation applications due

**November 3**
**Registration begins for Winter Term and Intersession**

**November 11**
**CAMPUS CLOSED (Veterans Day observed)**

**November 19**
Last day to withdraw: No refunds – will receive "W" on transcript

**November 20-26**
Textbook buyback

**November 24-26**
**3 Day Finals Week**

**November 27-28**
**CAMPUS CLOSED (Thanksgiving observed)**

**November 27-January 2**
**Term Break *(Winter classes begin January 5)***

**November 29**
Last day to check out of student housing

**December 1**
Winter Term and Intersession Campus Store textbook charging begins

**December 3**
Grades available via myLakerLink

**December 23-January 1**
**CAMPUS CLOSED**

**Note: Academic calendar subject to change. Please check the Schedule of Classes each term for registration information.**

## INTERSESSION 2025-2026 (4 WEEKS)

**Nov 3 - Dec 8***
**Registration for Intersession** *NOTE: Dec. 8 at 5:00 p.m. is the final day to register for Intersession – Make payment arrangements with Student Success Center at time of registration

**December 1**
Winter Term and Intersession Campus Store textbook charging begins

**December 8**
Intersession classes begin

**December 9**
Last day for refunds and to drop a class without being assigned a "W"

**December 9**
Financial Aid students must complete all add/drops

**Dec 23 - Jan 1**
CAMPUSES CLOSED (Winter Break)
Students enrolled in Intersession retain access to online classes throughout the break

**January 2**
Campuses re-open
Last day to withdraw: No refunds – will receive "W" on transcript

**January 5**
Last day of Intersession classes

**January 7**
Intersession grades available via myLakerLink

## WINTER 2025-2026 (11 WEEKS)

**Nov 3 - Jan 14***
**Registration for Winter Term**
*NOTE: Jan. 7 is the last day to register for Winter Term without instructor consent – Make payment arrangements with Student Success Center at time of registration

**December 1**
Winter Term Campus Store textbook charging begins

**January 1**
**CAMPUSES CLOSED** (New Year's Day)
SWOCC Foundation General Scholarships: Applications available for 2026-2027

**January 2**
Campuses re-open Waitlist completed; see instructor

**January 3**
Check-in day for housing residents

**January 5**
Day and night classes begin

**January 7**
Last day to register without instructor consent

**January 8 - 14**
Registration for Winter Term with instructor consent only

**January 14**
Last day of financial aid charging textbooks & course materials
Last day for refunds and to drop a class without being assigned a "W" For courses 5 weeks or longer
Financial Aid students must complete all add/drops, including waitlist classes, for correct check disbursement (Funds disbursed based on today's enrollment status)

**January 19**
**CAMPUSES CLOSED** (Dr. Martin Luther King, Jr. Day)

**January 23**
Financial Aid disbursement begins

**February 6**
Spring Graduation Applications Due

**February 13**
Last day to change to audit

**February 16**
**CAMPUSES CLOSED** (Presidents Day)

**February 23**
Registration begins for Spring Term

**March 1**
SWOCC Foundation General Scholarships: Applications Due for 2026-2027

**March 11**
Last day to withdraw: No refunds – will receive "W" on transcript

**March 16 - 19**
Finals Week

**March 16 - 20**
Campus Store textbook buyback

**March 21**
Check-out day for housing residents not returning Spring Term

**March 23**
Spring Term Campus Store textbook charging begins

**March 23 - 27**
Term Break (Spring Term classes begin March 30)

**March 25**
Grades available via myLakerLink

**Note: Academic calendar subject to change. Please check the Schedule of Classes each term for registration information.**

## SPRING 2025-2026 (11 WEEKS)

**Feb 23 - Apr 8***
**Registration for Spring Term**
*NOTE: April 1 is the last day to register for Spring Term without instructor consent – Make payment arrangements with Student Success Center at the time of registration

**March 23**
Spring Term Campus Store textbook charging begins

**March 26**
Waitlist completed; see instructor

**March 28**
Check-in day for housing residents

**March 30**
**Day and night classes begin**

**April 1**
Last day to register without instructor consent

**April 2 - 8**
Registration for Spring Term with instructor consent only

**April 8**
Last day of financial aid charging textbooks & course materials
Last day for refunds and to drop a class without being assigned a "W" For courses 5 weeks or longer
Financial Aid students must complete all add/drops, including waitlist classes, for correct check disbursement (Funds disbursed based on today's enrollment status)

**April 17**
Financial Aid disbursement begins

**May 1**
Summer Graduation Applications Due

**May 4**
**Registration begins for Summer and Fall Terms (2026-2027)**

**May 8**
Last day to change to audit

**May 25**
**CAMPUSES CLOSED (Memorial Day)**

**June 3**
Last day to withdraw: No refunds – will receive "W" on transcript

**June 8 - 11**
**Finals Week**

**June 8 - 12**
Campus Store textbook buyback

**June 12**
Commencement

**June 13**
Check-out day for housing residents not returning Summer Term

**June 15**
Summer Term Campus Store textbook charging begins

**June 15 - 19**
**Term Break**

**June 17**
Grades available via myLakerLink

**Note: Academic calendar subject to change. Please check the Schedule of Classes each term for registration information.**

# ENROLLMENT

**STUDENT SUCCESS CENTER | STENSLAND HALL | 541-888-7352 (COOS) | 541-813-1667 (CURRY)**
**ADMISSIONS OFFICE | DELLWOOD HALL RM 4 | 541-888-7636 | 800-962-2838 EXT. 7636**

## STEPS TO BECOME A LAKER

### Generally, Meet One of Following Requirements and have the Ability to Benefit from Instruction:

- Are 18 years of age or older;
- Have graduated from an accredited high school;
- Have completed a General Education Development (GED®) certificate or an Adult High School Diploma; or
- Were home schooled and have met state requirements for high school equivalency/completion.

### Apply for Admissions

- Visit Southwestern's webpage at Become a Student to submit an application.
- For assistance contact either Admissions at admissions@socc.edu or 541-888-7636.

### Complete New Student Orientation

- Complete the New Student Orientation. To access the orientation you will need your student ID and the password you created. Get to know your student portal at https://mylakerlink.socc.edu/ as well as your ID number, and student email.

### Schedule Intake Advising Appointment

- To schedule an appointment for **Coos Campus**: book online here or call 541-888-7405.
- To schedule an appointment for **Curry Campus**: book online here or call 541-813-1667.
- Students can start scheduling intake advising appointments for the new academic year in May.

### Secure Housing

**Students required to live in housing must apply for housing prior to meeting with an intake advisor. Students can start applying for housing for the new academic year in October.**

- First time out of district freshman attending Coos Campus are required to live in student housing. (If you feel that you have an exception to the freshman housing requirement, you will need to contact the Director of Housing at 541-888-7800 before you complete the application to discuss your situation.)
- You may apply for housing by clicking here.
- Additional information can be found here or by calling 541-888-7635.

### Paying For College

- Apply for Federal and State aid at studentaid.gov.
- Check your personal email for supporting documents necessary for completing your file.
- Send outside funding information (scholarships, agency support, etc.) to Coos or Curry Student Success Center locations.
- SWOCC does not charge out-of-state tuition.
- Visit the Tuition and Fees webpage.

### Follow-Up

- Follow up on the steps above by using the student portal ( https://mylakerlink.socc.edu/ICS/ ).
- If you need any help contact the Student Success Center at Coos: 541-888-7352 or Curry: 541-813-1667.

## THE APPLICATION PROCESS IS DIFFERENT FOR:

### International Students

- International students must meet federal immigration and college requirements before being admitted to Southwestern. International students whose native language is not English must also present satisfactory English proficiency scores to be eligible for admission. A list of accepted English proficiency exams and their relevant minimum scores can found here.
- Students must complete the International Application for Admission and submit the required supplemental documents listed in the application to the Coordinator of International Student Programs before the I-20 and acceptance letter may be issued. International transfer students must also submit transcripts from their previous college/university in order to receive credit for such courses at Southwestern. Transcripts originating from institutions outside of the USA must be in English. Please visit the International Student Program page for more information.
- The smaller family-style atmosphere of the Southwestern Coos Bay Campus provides a rich and safe environment for students of all nations and backgrounds to feel welcome and experience American culture. Life in student housing is especially advantageous for making friends and living in an English rich environment with a range of social and educational activities to take part in throughout the academic year.

### Community Education (non-credit classes)

- If you plan to attend for personal enrichment or workforce development but will not be working towards an undergraduate degree, you will need to complete a Community Education and Personal Enrichment form to obtain a SWOCC account and gain access to register for classes.
- Please visit Community Education for more information.

### Transfer Students

- Transfer students who plan to complete a degree and/or receive financial assistance must complete the application process and have official transcripts sent to Southwestern. Send all official transcripts to Southwestern Oregon Community College, ATTN: Transcript Evaluator, 1988 Newmark Ave., Coos Bay, OR 97420.
- Coursework from accredited colleges and universities will be accepted in accordance with college policies. Course credits transferred from other accredited colleges or universities are evaluated in terms of equivalency to Southwestern courses and/or applicability to Southwestern programs. All credits used to calculate the cumulative Grade Point Average (GPA) are transferred; however, some of the credits may not apply to a student's Southwestern program.
- Southwestern Oregon Community College does not provide students copies of transcripts from other institutions they have attended.

Students must contact their prior institutions to obtain copies of their transcripts. Once received by the College, students may view the transcripts from their other institutions at any time by submitting a written request to the Student Success Center.

### Applicants Under 18 Years of Age (no High School diploma)

- The College Now program provides high school students the opportunity to earn college credits while fulfilling high school graduation requirements. Students under the age of 18 who have not graduated from high school or earned a GED® can learn more about our High School Partnerships here.
- College Now programs include:

  Dual Credit: College credit classes taught at the high school by high school instructors

  Expanded Options: College courses taught by the college instructors at the college or online

  Enhanced Options: College Credit classes taught at/for the high school by college instructors

Earned credit will be on students' Southwestern transcripts. Credit transfer acceptability is at the discretion of the receiving institution. Course offerings vary by high school. For more information, contact the high school counseling office or the Southwestern College Now staff at 541-888-7893 or collegenow@socc.edu.

### Special Admissions Programs

There are additional admission processes for restricted-entry courses, programs, and training opportunities which require a separate application:

- Baking and Pastry or Culinary Arts
- Emergency Medical Technician/Paramedic
- Nursing and Nursing Assistant

For the specific application processes visit or call the Admissions Office in Dellwood Hall, Rm 4, 541-888-7636.

# COURSE PLACEMENT & TESTING

Southwestern strives to place students into math and writing courses appropriate to their academic development. This is typically done through standardized testing (ACT, SAT, Accuplacer, GED). Alternatively, students may be placed into appropriate coursework using a Multiple Measures placement process. During this process intake advisors will look at previous coursework taken, how long it has been since your last class, and other relevant factors.

The below charts are used by college staff to navigate your placement process. Questions? Call an advisor at 541-888-7405 or email ssc@socc.edu.

## MATH PLACEMENT CHART

### HIGH SCHOOL MEASURES (TOOK FULL YEAR OF MATH WITHIN THE PAST YEAR)

| Test/Class | Score/Grade | Placement |
|---|---|---|
| Calculus | A, B, or C | MTH251Z |
| Calculus | D | MTH105Z/111Z/211/STAT243Z |
| Pre-Calculus | A or B | MTH105Z/111Z/211/STAT243Z |
| Pre-Calculus | C w/ H.S. GPD higher than 3.0 | MTH105Z/111Z/211/STAT243Z |
| Pre-Calculus | C w/ H.S. GPA lower than 3.0 | MTH95/98 |
| Pre-Calculus | D | MTH95/98 |
| Statistics/Algebra II | A or B w/ H.S. CPA 3.0 or higher | MTH105Z/111Z/211/STAT243Z |
| Statistics/Algebra II | B w/ H.S. GPA lower than 3.0 | MTH95/98 |
| Statistics/Algebra II | C or D | MTH65/98 |
| Geometry/Financial Alg./Integrated III | A or B or C | MTH65/98 |

### EXAM MEASURES (EXAM COMPLETED WITHIN THE PAST YEAR)

| Test/Class | Score/Grade | Placement |
|---|---|---|
| ACT/SAT | 23+ or 561+ | MTH105Z/111Z/211/STAT243Z |
| ACT/SAT | 13-22 or 440-560 | MTH65/98 |
| GED | 175+ | MTH112Z |
| GED | 165-174 | MTH105Z/111Z/211/STAT243Z |
| GED | 155-164 | MTH95/98 |
| GED | 145-154 | MTH65/98 |

### HIGH SCHOOL MEASURES (TOOK FULL YEAR OF MATH WITHIN THE PAST 1-5 YEARS)

| Test/Class | Score/Grade | Placement |
|---|---|---|
| Calculus | A or B | MTH251Z |
| Calculus | C | MTH105Z/111Z/211/STAT243Z |
| Calculus | D | MTH95/98 |
| Pre-Calculus | A or B w/ H.S. GPA 3.0 or higher | MTH105Z/111Z/211/STAT243Z |
| Pre-Calculus | B w/ H.S. GPA lower than 3.0 | MTH95/98 |
| Pre-Calculus | C or D | MTH65/98 |
| Statistics/Algebra II | A or B w/ H.S. GPA 3.0 or higher | MTH95/98 |
| Statistics/Algebra II | B w/ H.S. GPA lower than 3.0 or C | MTH65/98 |
| Statistics/Algebra II | D | MTH65/98 |
| Geometry/Financial Alg./Integrated III | A, B, or C w/ H.S. GPA 3.0 or higher | MTH65/98 |

### EXAM MEASURES (EXAM COMPLETED WITHIN THE PAST 1-5 YEARS)

| Test/Class | Score/Grade | Placement |
|---|---|---|
| ACT/SAT | 23+ or 561+ | MTH105Z/111Z/211/STAT243Z |
| ACT/SAT | 17-22 or 440-560 | MTH65/98 |
| GED | 165-174 | MTH95/98 |
| GED | 145-164 | MTH65/98 |

### ACCUPLACER NEXT GENERATION

| Test/Class | Score/Grade | Placement |
|---|---|---|
| Accuplacer Next Generation | Gen Math: 276+ | MTH251Z |
| Accuplacer Next Generation | Gen Math: 263-275 | MTH112Z |
| Accuplacer Next Generation | Gen Math: 245-262 | MTH105Z/111Z/211/STAT243Z |
| Accuplacer Next Generation | Gen Math: 228-244 | MTH95 |
| Accuplacer Next Generation | Gen Math: 211-227 or Gen Algebra: 239-275 | MTH65/98 OR MTH80/81/82 |

## WRITING PLACEMENT CHART

### HIGH SCHOOL MEASURES (TOOK FULL YEAR OF LANGUAGE ARTS WITHIN THE PAST 5 YEARS)

| Test/Class | Score/Grade | Placement |
|---|---|---|
| English 12 or Equivalent | A or B | WR121Z |
| English 12 or Equivalent | C w/ GPA higher than 3.0 | WR121Z |
| English 12 or Equivalent | C w/ GPA lower than 3.0 | WR121Z w/ WR95 |
| English 12 or Equivalent | D | WR90R |
| English 11 or Equivalent | A or B | WR121Z |
| English 11 or Equivalent | C w/ GPA higher than 3.0 | WR121Z w/95 |
| English 11 or Equivalent | C w/ GPA lower than 3.0 or D | WR90R |
| English 10 or Equivalent | A | WR121Z |
| English 10 or Equivalent | B or instructor approval | WR121Z w/95 |
| English 10 or Equivalent | C or D | WR90R |

### EXAM MEASURES (EXAM COMPLETED WITHIN THE PAST 5 YEARS)

| Test/Class | Score/Grade | Placement |
|---|---|---|
| ACT/SAT | 23+/521+ | WR121Z |
| ACT/SAT | 16-22/491-520 | WR121Z w/ WR95 |
| ACT/SAT | <16/<491 | WR90R |
| GED | 165+ | WR121Z |
| GED | 155-164 | WR121Z w/ WR95 |
| GED | 145-154 | WR90R |

### ALTERNATIVE MEASURES (LANGUAGE ARTS COURSE OR EXAM COMPLETED MORE THAN 5 YEARS AGO)

| Test/Class | Score/Grade | Placement |
|---|---|---|
| Accuplacer Next Generation | 256-300 | WR121Z |
| Accuplacer Next Generation | 241-255 | WR121Z w/95 |
| Accuplacer Next Generation | <241 | WR90R |

## TESTING INFORMATION

College credit may be awarded for successful completion of Advanced Placement/CLEP tests. To view test information please visit College Board. Southwestern requires students to send their **official** Advanced Placement/CLEP test scores to our Transcript Evaluator for processing. Questions? Call our Transcript Evaluator at 541-888-7246 or email transcripts@socc.edu.

# FINANCIAL AID

### FINANCIAL AID OFFICE | DELLWOOD HALL RM 22 | 541-888-7352

APPLY ONLINE studentaid.gov | SOUTHWESTERN SCHOOL CODE: 003220

Southwestern Oregon Community College offers a number of financial aid programs in the form of grants, loans, tuition scholarships, and employment. Students interested in financial aid must apply online at studentaid.gov. Contact the Financial Aid Office for information. Funds are limited and students should apply early.

| Term of Enrollment | Priority Deadline for Submission of Required Paperwork |
|---|---|
| Summer Term 2025-2026 | June 16, 2025 - Contact our office if attending[1] |
| Fall Term 2025-2026 | August 1, 2025[1] |
| Winter Term 2025-2026 | December 1, 2025[1] |
| Spring Term 2025-2026 | March 1, 2026[1] |

[1] Dates subject to change.

- Paperwork submitted OR postmarked after the deadline dates will be processed as quickly as possible.
- Be aware that late paperwork may not be processed before the term begins.
- Plan on at least 6 to 12 weeks processing time from the time you turn in your last piece of paperwork. During peak times, especially August through October, the wait could be up to 16 weeks.
- You will need to make payment arrangements with either Student First Stop Center if you have not received your official award letter by the payment deadline date.

Financial aid funds are disbursed by Electronic Funds Transfer (EFT) or by mail after the student accounts have been credited. Disbursement begins Friday of the third week of each term. Further disbursements are processed by each Friday thereafter. Students receiving financial aid are to have all add/drops, bookstore charges and required paperwork processed by Wednesday of the second week of the term in order to have an accurate disbursement. Students are responsible for paying all tuition and fees in excess of financial aid funding by the payment/withdrawal deadline date listed in the academic calendar.

To be awarded federal student loans, or to begin working under Federal Work-Study, students need to have completed all the necessary paperwork and workshops.

Bookstore charges are available for all financial aid students who qualify starting the Monday before the term begins. For information contact one of the Student Success Centers at 541-888-7352 (Coos) or 541-813-1667 (Curry).

If students are placed on Aid Suspension Status, a request/appeal needs to be submitted to the Financial Aid Office, or alternative payment arrangements made with the Student Success Center by 4:00 p.m. on the second Wednesday of the term. Students who are on Aid Suspension Status and have submitted a request/appeal should continue attending all courses pending a review by the Assistant Director of Financial Aid. The second Wednesday of the term will be considered the actual date of withdrawal should a request/appeal be denied and the students chooses to withdraw. This will result in a 100% refund. Students are responsible for all bookstore charges. A refund may be available at the bookstore during the first week of the term if items are returned in the condition that they were purchased.

Consumer information is available online at (https://www.socc.edu/getting-started/paying-for-college/consumer-information/) and at several offices on campus including policies and procedures, application processes, and disbursement information.

## FINANCIAL AID ON THE WEB

studentaid.gov

Southwestern's School Code: 003220

Step 1 – Fill out and submit the FAFSA with Southwestern's school code online at studentaid.gov.

You'll need the following to fill out the form:

- Social security number
- Federal income tax and W-2 forms along with any other records of money earned
- Driver's license (if any)
- Parents' income tax return (if a dependent)
- Current bank statements
- Current mortgage and investment records (if any)
- Alien registration card (if not a U.S. citizen)

Step 2 – Log into your FAFSA and review your Student Aid Report (SAR) after your FAFSA has been processed. Review it carefully. When you file electronically, your SAR should be available immediately.

# TUITION AND FEES

| Student Type | Per Credit Tuition | Per Course Fee | Per Credit Fee | Distance Ed Fee |
|---|---|---|---|---|
| U.S. Residents | $114 | $40 | $40 | $44 |
| International Students | $228 | $40 | $40 | $44 |
| Audit | $57 | $40 | $40 | $44 |

*Tuition and fees are subject to change. Please go to Tuition and Fees to see our current tuition and fees.

Note: Oregon Coast Culinary Institute carries a separate program fee of $57 for both U.S. Residents and International Students.

All courses carry a per course registration fee and a per credit incidental fee. All distance education courses carry a per course fee. These fees allow students access to campus services without additional cost such as:

- Computer labs
- Southwestern's distance learning courses
- Lab courses
- Student Recreation Center
- Student activities

Some courses are offered as self-support and carry a fee amount that is required for course delivery and materials.

All students are charged fees regardless of service utilization. The College reserves the right to change tuition and fees at any time. This does not affect the right of the College President to levy special charges at any time should conditions make this necessary. A late fee may be assessed for original registrations processed after the start of the term. Registrations received after the end of the term may be assessed a $250 late registration fee.

Tuition will be waived for any approved credit course, audited by an Oregon resident 65 years of age or older (ORS 341.518). Payment for all fees and supplies are the responsibility of the student.

The following rules apply:

- Space is available in the course for additional students to register after tuition-paying students have registered;
- The department in which the course is being taught approves;
- The auditing student is registered for eight credits or fewer per term; and
- The course is a lower-division collegiate course.

Contact the Student Support Center for further information.

## RESPONSIBILITY FOR PAYMENT

Responsibility for payment of tuition and fees are assessed when the students register. Students are responsible for payment arrangements at the time of registration.

Account balances under $500 require payment in full or students may be withdrawn if payment is not received within five days of registration. Payments may be made by cash, check, money order, VISA, MasterCard, American Express or Discover Card. Please make checks payable to Southwestern Oregon Community College.

Tuition and fees may be billed to an employer or an agency if the College has received the appropriate authorization. Students have the option to set up a payment plan with monthly payments. A non-refundable fee of $32 per term is charged for the payment plans. Students that are under 18 years of age, Southwestern requires a payment plan be made in the parent or guardian's name. For payment options, please visit the Student Success Center in Stensland Hall, Coos Campus, or Curry Campus. Coos Students may call 541.888.7352; Curry students may call 541-813-1667.

## REFUNDS

Students who stop attending their courses during the term must formally withdraw by either dropping their courses through myLakerLink or by submitting a drop form with the Student Success Center. Refunds are computed from the date of the formal withdrawal, not from the date the student stopped attending.

## REFUND DEADLINE

| Course Length | Refund Deadline |
|---|---|
| 5 weeks or longer | Second Wednesday of the term at 5:00 p.m. |
| 1 week to less than 5 weeks | Second day of the first week |
| 1 week or less | Day before course first meets |

For courses five weeks or longer, a 100-percent refund is given if the formal withdrawal is completed by the second Wednesday, 5:00 pm, of the term.

For courses that are scheduled to meet more than one week and less than five weeks, a 100-percent refund will be given if the formal withdrawal is completed by the end of the second day of the first week the course is scheduled to meet.

For courses that are one week or less in duration, a 100-percent refund will be given if the formal withdrawal is completed by the end of the day before the first meeting. This applies to courses that start on the first day of the regular term (summer, fall, winter, spring) or at some other time during the term; it is possible that a student would have to withdraw from a course before the course actually meets to receive a full refund.

The refund process begins the third week of the term in which the students are enrolled. Students who receive financial aid funds will receive a refund after any funds owed to the College or the U.S. Department of Education are deducted. To receive your refunds electronically, go to myLakerLink, Finances tab, to enter your bank information. When the refund amount is less than $5, students will be notified by mail to come to the Student Success Center to receive a cash disbursement.

Student withdrawing from courses, after the refund period, are responsible to pay the balance due on any federal student loans, payment plans, and accounts receivable.

# ACADEMIC POLICY & PROCEDURES

## PROCEDURES GOVERNING REGISTRATION & STUDENT RECORDS

### ADMINISTRATIVE WITHDRAWAL OF STUDENTS

In order to assure that all available class seats are filled with students - both registered students and students from the waitlist - Southwestern enforces an attendance policy.

Instructors **may** administratively withdraw students from classes if the students do not attend 100% of class sessions and associated labs during the first week of each term. Additionally, all instructors may administratively withdraw students from sub-term classes (those which do not span the entire term) if students do not attend the first class session. Students who are unable to attend the first class meeting must contact the instructor by phone, e-mail or in person prior to the first class meeting if they wish to avoid an administrative withdrawal. Southwestern Oregon Community College is not responsible for liabilities associated with the administrative withdrawal of students. Ultimately, students are responsible for dropping courses within the drop period to avoid being charged for the class or receiving a failing grade.

Any student whose behavior disrupts the educational process of a course can be administratively withdrawn from that course. It is the procedure of Southwestern Oregon Community College that an individual will be subject to involuntary administrative withdrawal from campus and related instruction if it is determined, by clear and convincing evidence, that the individual is suffering from a physical, emotional and/or behavioral disorder and as a result of the disorder engages or threatens to engage in behavior which:

- Poses a danger of causing physical harm to self or others;
- Could cause property damage; or
- Could directly and substantially impede the educational process and/or the lawful activities of others.

The College reserves the right to request, with good cause, a physical, psychological or psychiatric examination of a student any time the examinations may be in the best interest of the College and/or the student. The College shall pay for the examinations.

### ADD/DROPS

Students must receive instructor consent from their instructors to add courses after the first Wednesday of the term. Students may withdraw from a course or from the College through the end of the second Wednesday, 5:00 p.m., of the term or within the course's refund period without responsibility for a grade. Students may add courses with instructor consent through the end of the second Wednesday of the term at 5:00PM. Dropping after the refund period will result in "W" grades on transcripts. Students may withdraw until the Wednesday before finals week. Students are strongly encouraged to consult the instructor and their academic advisor before dropping to ascertain their status in the course.

### AUDITING COURSES

Students who are interested in taking a class, but do not need the credit may choose to audit credit classes and pay only 50% of the regular tuition. Students auditing classes participate fully in the class, but are not required to take tests and do not receive grades. To qualify for the audit discount, registration is required within the refund period. Fees and registration procedures are the same as when the students take the class for credit.

Students electing to audit a class (no grade, no credit) must choose this option at the time of registration or no later than the end of the sixth week of instruction for standard term-length classes. Check with the Student Success Center for last day to change grading status for nonstandard-length classes. Auditing students pay in accordance with the tuition schedule and participate to a degree determined by them and the instructors. Audited courses at time of registration are not eligible for financial aid.

**Financial aid may be impacted by auditing a course*; please check with the Financial Aid Office for details.

*Community members wishing to experience a college course or training should contact the Student Success Center at 541-888-7352 or firststop@socc.edu.

## CHANGE OF MAJOR OR SPECIALIZATION

To change a major or specialization, students must complete the Change of Major form on myLakerLink. Login to see the form here: Change of Major. Changes to majors made by the second Wednesday of the term will apply to the current term. Changes made thereafter will apply to the following term. For graduation and class scheduling purposes, students need to use the catalog year in which they declare their major. Because changing majors may have an impact on financial aid eligibility, students are encouraged to consult with their academic advisor before making any changes.

## CLASSIFICATION

A student will be classified in Freshman/Sophomore status when they have earned the following credits:

- Freshman: 0-44.9 credits
- Sophomore: 45+ credits

## COURSES

Southwestern offers the following types of courses. If you are not sure what type your courses are, talk to your advisor or the instructor of the course.

**FACE-TO-FACE** - This course will be offered entirely in a face-to-face format. Students will attend class at specified times and at a specified location.

**HYBRID** - This class will have some of the course material delivered remotely. Students will also attend class at specified times and at a specified location.

**VIRTUAL INSTRUCTION** - This class will have all course material delivered remotely. Students will be required to attend class sessions virtually at a specified time.

**HYFLEX -** This class can be attended either online or face-to-face. Students will have the choice each scheduled class meeting of which mode they will use.

**ONLINE** - This class will have all course material delivered remotely with no requirements for a student to attend class at a specified time.

## COURSE PREREQUISITES

A course that must be completed prior to another course is a prerequisite. Course prerequisites must be passed with a "C" or better. Many courses have prerequisites that can only be waived with instructor consent. Instructors waive prerequisites with instructor consent. Students may be withdrawn from courses if they have not completed the prerequisites from the prior term. Students may request that the prerequisites be waived if they have the knowledge and skills to succeed in the courses. Students can contact the Student Success Center (SSC) at 541-888-7405 or 800-962-2838, ext. 7405 for assistance.

## INSTRUCTOR CONSENT

Students planning to register for a course that requires instructor consent must have approval from the instructor. Students may obtain instructor consent by contacting the instructor through the college email Directory and/or their advisor.

## MULTIPLE DEGREES

Students applying for multiple degrees must meet the degree requirements as listed for each degree. For each additional degree, students must complete at least 15 unique SWOCC credits that are different from those used for the other degree(s) and are applicable to the specific degree requirements.

## WAITLISTED COURSES

When students register for courses that are full, they are placed on waitlists. Students in waitlisted courses will be notified through their college email when seats are available and they have permission to register via myLakerLink or at the Student Success Center. Students must then actively click the add/move button within 72 hours to be added to the class. The waitlist ends the Thursday prior to the first week of classes. After the waitlist period ends, students may register in the waitlisted courses with instructor consent.

## STATUTE OF LIMITATIONS ON AA/OT, AS, AGS, AND AAS DEGREES AND CERTIFICATES

To earn an Associate's degree or Certificate of Completion, students must meet the requirements in the catalog year in which they declared their major at Southwestern. Students who are not enrolled in at least one course toward their degree for more than one year will lose the right to complete the degree under the original catalog requirements. Students must then meet the requirements in the catalog from the year they re-enroll at Southwestern.

The application of existing coursework will be evaluated on an individual basis by the Transcript Evaluator and the appropriate instructors. Modifications or exceptions may be made in certain circumstances by approval from the Academic Standards Committee. For example, if the student has been employed in the skill area and has thus been able to keep up with developments in the field or if the time lapse is marginally outside accepted limits. All exceptions will be made with the knowledge and consent of the appropriate instructors.
An edition of the catalog is valid for five academic years. For example, a catalog that takes effect in summer of 2018 is valid only through spring of 2023.

Students should regularly consult an advisor in their major field. Failure to complete the requirements within that time frame will require students to move to the current catalog year or to petition the Academic Standards Committee, using the Academic Standards Committee Petition form, for an exception to the policy. Students taking more than five years to complete their degree program must have coursework evaluated by the Transcript Evaluator and the program faculty before graduation. Students may have to retake courses or take additional coursework in order to graduate.

## STUDENT RECORDS PROCEDURE

The Student Success Centers maintain all official academic records of students including Applications for Admission, transcripts, registration

forms, and transfer credit and degree evaluations. The Financial Aid Office maintains all records of student aid and scholarship records.

FERPA: The Family Education Rights and Privacy Act (FERPA or Buckley amendment) and Oregon Administrative Rules (OARs) protect the confidentiality of student records and student access to those records. Under the provisions of the FERPA and OARs, the educational institution must designate the information it will release without the written consent of the student as directory information, and protect the confidentiality of all other student records. By being FERPA compliant, the College in turn maintains Gramm-Leach-Bliley (GLB) compliance.

It is the intent of Southwestern to designate the following data as directory information: Student's full name, credit hour status (enrollment status, e.g. full-time, part-time, not enrolled), dates and terms of enrollment, certificate or degree earned and dates earned (including GED certificate), certificate or degree candidacy and anticipated date (including GED certificate), athletic statistics and honors, Academic Honors.

Students may prohibit the release of any or all of this directory information by filling out the Restrict or Release form at either Student Success Center. Requests to withhold this information will remain in effect until the Student Success Center receives written instructions from the student to remove the hold.

Directory information and other personally identifiable information may be released to college officials who have a legitimate educational interest, or to comply with a judicial order or lawfully issued subpoena. The President of the College may release personally identifiable student information to appropriate persons in connection with an emergency if knowledge of such information is necessary to protect the health or safety of persons and/or safety of property.

Students have the right, by pre-scheduled appointment with the Registrar, to access their educational records as defined in OAR 582-41-410, as well as to challenge the correctness of those records, to request amendment of those records and, in case of dispute, to obtain a hearing (OAR 581-41-450). Students may not request a hearing under this policy to challenge a grade, only the accuracy of its recording. Students who wish to inspect their records must schedule an appointment with the College Registrar. If students request a copy of any document in the records, a copy charge will be assessed. This does not include transcripts, which can be obtained from either Student Success Center.

# RECORDS DISCLOSURE

OAR 581-41-460 authorizes Southwestern Oregon Community College to ask you to provide your social security number. The College will use your number for reporting, research, and record keeping. Your number will also be provided by the College to the Data for Analysis (D4A) Oregon colleges reporting system. All students are assigned a student identification number separate from their social security number. D4A is a reporting system designed for secondary and postsecondary educational institutions to report data required by the Oregon Higher Education Coordinating Commission (HECC). The system stores information about students and programs to meet State and Federal reporting requirements. It also helps colleges plan, research and develop programs. This information helps the colleges to support the progress of students and their success in the workplace and other education programs.

D4A or the College may provide your social security number to 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 further their education and also 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 obtain the best jobs available.
- The Oregon Department of Education provides 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. Funding for community colleges is based on this information.
- 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.
- Where applicable (i.e., at colleges which use the ASSET/Compass placement test): The American College Testing Service, if you take the placement test, for educational research purposes.
- The Internal Revenue Service, which is required to be reported for tax credit eligibility determination.

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

*OAR (Reglamento Administraivo de Oregon) 581.41.460 autoriza al colegio comunitario Southwestern Oregon Community College que solicite su numero social. El numero sera utilizado por el colegio para la preparacion de reportes, agregados, investigaciones, y para guardar suexpediente academico.*
*Su numero tambien sera proporcionado por la universidad al sistema de informes de universidades de Data for Analysis (D4A) de Oregon. A todos los estudiantes se les asigna un numero de identificaion del estudiante separado de su numero de seguro social. D4A es un sistema de informes disenado para instituciones educativas secundarias y postsecundarias para reportar los datos requeridos por la Comision de Coordinacion de Educacion Superior de Oregon (HECC). El sistema incluye informacion sobre los estudiantes y programas para cumplir con los requisitos de reportes federales y estatales. Tambien ayuda a la los colegios en su planificacion, investigacion, y para el desarollo de programas. Esta informacion ayuda a los colegios a mantener el progreso de los estudiantes y sus exitos en el lugar de trabajo y en otros programas de educacion.*

*D4A o el colegio se pueden proporcionar su numero social a las siguentes agencias o conseguirlo o igualarlo con los archivos de los siguentes sistemas: oLos colegios estatales, univeridades privadas, colegios, y colegios vocacionales, para averiguar cuantos estudiantes que asistieron a los colegios comunitarios continuaron con su educacion y para averiguar si los cursos son una buena base para la educacion adicional.*

- *El Departamento de Empleo de Oregon, que coleciona informacion para ayudar a las agencias estatales y locales en la planificacion de los servicios educacionales y servicios de entrenamiento para ayudar a la poblacion de Oregon a conseguir los mejores trabajos posibles.*
- *El Departamento de Educacion de Oregon, para proveer reportes al gobierno estatal y federal. Esta informacion se usa para aprender sobre la educacion, el entrenamiento, y la direccion que van tomando los trabajos para planification, investigacion, y mejoramiento de los programas.*

*Los fondos que los colegios comunitarios reciben es basada en esta informacion.*

- *El Departamento de Fiscal de Oregon y las agencias de coleccion con el proposito de procesar deudas y solamente si se el extiende credito a la persona por el colegio.*
- *DONDE SEA APLICABLE (por ejemplo en los colegios que usan la prueba ASSET): El Servicio de Pruebas de Colegio Americanos, si usted toma la prueba ASSET Placement Test, para el proposito de investigacion.*
- *De ustedes el numero de seguro social es requeria y sere informe a la IRS (rentas internas) para determinacion de aceptablemente credito. Su numero se usara solo para los propositos enlistados arriba. Las leyes estatales y federales protejen su informacion privada. Si necesita mas ayuda, llama EPSE por telefono 541-888-7405; 800-962-2838, ext. 7405.*

# TRANSFER CREDITS

## TRANSFERRING FROM SOUTHWESTERN

Transfer students are responsible for determining the requirements of the institution and program to which they plan to transfer. Official Southwestern transcripts can be ordered and delivered by contacting Student Success Center.

## TRANSFERRING TO SOUTHWESTERN

Southwestern Oregon Community College accepts college level credits earned in academic certificate and degree programs from colleges and universities accredited by one of the following regional Associations of Colleges and Schools -- Middle States, North Central, New England, Northwest, Southern or Western.

Official transcripts are processed after the students have been formally accepted to the college. Send official transcripts to the Student Success Center. Send placement test scores to the Student Success Center (SSC).

# CREDIT FOR PRIOR LEARNING (CPL)

Credit for Prior Learning is an opportunity for Southwestern students to be granted credit for verifiable, college-level learning that is acquired outside the college setting through life or work experience. There are several ways to gain Credit for Prior Learning, including the College Level Entrance Examination Program (CLEP), challenge exams by course, Advanced Placement Program (APP), military training, industry certifications/training programs, or Prior Learning Assessments (PLA). Talk to your advisor to learn more about options.

Students must be working toward a degree, be enrolled, and complete a minimum of three credits at Southwestern during the quarter in which a class is challenged or prior learning is assessed. Students may request credit for prior learning for up to 25% of their credits to satisfy the requirements for a 1 year certification, or 2 year degree. If planning to transfer to another institution, it is recommended that the student check with their intended transfer institution for acceptance of challenge/PLA credits. Challenge/PLA credits do not count toward determining financial aid or veteran's benefits and payment (half the tuition) is required before the Challenge/PLA process is started. Students pay a per credit fee for credits earned through any of these methods. In order to initiate the CPL process, students must meet with the instructor and negotiate an agreement. The agreement will state what type of credits the students will receive upon completion of the course work. Please refer to the instructions listed on the CPL form for next steps.

# ADVANCED PLACEMENT PROGRAM (APP)

High school seniors who participate in the College Entrance Examination Board's Advanced Placement Program may seek advanced placement in a variety of disciplines. Entering freshman who have taken the APP tests should have the results sent to the transcripts@socc.edu. Advanced placement and/or college credit may be granted upon recommendation of the appropriate party. Credit may be granted only if students are working towards a degree/certificate and enroll and complete a minimum of three credits at Southwestern during the quarter. The Student Success Center can provide interested students with procedures.

# COLLEGE LEVEL ENTRANCE EXAMINATION PROGRAM (CLEP)

Students enrolled at Southwestern may receive credit for certain college courses by submitting official scores from the College Level Entrance Examination Program (CLEP). Successful CLEP exam results in grade and credit on the Southwestern permanent record identified as CLEP. The Student Success Center can provide interested students with procedures. Official scores should be emailed to transcripts@socc.edu.

# OTHER ALTERNATIVE CREDIT

Southwestern will evaluate any of the following learning experiences for credit depending on test and score. International Baccalaureate (IB), Military Service Credit, (AARTS, CCAF, CGI, and SMART) are considered for transfer evaluation based on American Council on Education (ACE) recommendations. Southwestern does not accept non-military ACE recommendations. A military Veteran will be granted three credits of PE applicable to all PE/Health degree requirements upon the submission of a DD214 with basic training completion.

# MINIMUM GRADUATION REQUIREMENT

To meet requirements for a degree or certificate, a student must complete a minimum of 24 credits at Southwestern in addition to any credits transferred in from another institution or earned through alternative credit methods. Alternative credits must not duplicate other credit awarded. Financial Aid and waivers do not cover the per credit fee for alternative credits.

# GRADE POINT AVERAGE

| Code | Description |
|---|---|
| A | Excellent: 4 grade points |
| B | Above Average: 3 grade points |
| C | Average: 2 grade points |
| D | Below Average: 1 grade point |
| F | Failing: 0 grade points |
| Z | Grades were not received from the instructor. Grades will be entered and available via myLakerLink once they are received. |

- Southwestern computes GPA using the 4-point system and by dividing the total grade points by the total quality credits.
- Grades are assigned based on work completed at the end of the scheduled class time. Additional work or make-up after the ending date of the class is not justified unless an Incomplete was assigned.

- Grades and/or records found to be fraudulent will be changed.
- **Grades are not mailed; they are available via myLakerLink.**

# INCOMPLETE GRADES

| Code | Description |
|---|---|
| I | Incomplete: 0 points per credit hour – 'I' grade is given for work that could not be completed during the finals week for the term because of circumstances beyond the student's control. 'I' grades require the student's current earned letter grade to be attached to the 'I' grade and the date when the Incomplete contract is to expire. If the student does not fulfill her/his contract within the designated time, the grade will automatically revert to the given grade. |
| IB | Incomplete 'B' earned: 3 grade points |
| IC | Incomplete 'C' earned: 2 grade points |
| ID | Incomplete 'D' earned: 1 grade point |
| IF | Incomplete 'F' earned: 0 grade points |
| IU | Incomplete Unsatisfactory earned: 0 grade points |

# PASS-FAIL GRADING OPTION

Certain courses offer students an option to receive a grade of S (satisfactory) or U (unsatisfactory) instead of letter grade (A, B, C, D, or F). This option must be exercised at the time of registration. Courses required for your degree program must be taken for a letter grade.

S Grade: For evaluation and transferability purposes, the 'S' grade is equivalent to a grade of C or better.

# AUDIT OPTION

Students who are interested in taking a class, but do not need the credit may choose to audit credit classes and pay only 50% of the regular tuition. Students auditing classes participate fully in the class, but are not required to take tests and do not receive grades. To qualify for the audit discount, registration is required within the refund period. Fees and registration procedures are the same as when the students take the class for credit.

Students electing to audit a class (no grade, no credit) must choose this option at the time of registration or no later than the end of the sixth week of instruction for standard term-length classes. Check with the Student Success Center for last day to change grading status for nonstandard-length classes. Auditing students pay in accordance with the tuition schedule and participate to a degree determined by them and the instructors. Audited courses at time of registration are not eligible for financial aid.

**Financial aid may be impacted by auditing a course*; please check with the Financial Aid Office for details.

*Community members wishing to experience a college course or training should contact the Student Success Center at 541-888-7352 or firststop@socc.edu.

# COURSE REPEAT AND ABILITY TO BENEFIT POLICY

For academic purposes, the ability to benefit from instruction is defined as the ability to achieve the skill level or knowledge to apply the subject matter in an academic or practical situation. This is defined as at least an S or C grade.

A course may be repeated once to improve a grade. A student should consult an advisor before repeating a course a second time.

All course attempts will remain on the transcript. Only the highest grade will be reflected in the cumulative grade point average (GPA) calculated for Southwestern cumulative GPA. Financial aid is required by Federal regulations to calculate the cumulative grade point average using the historical transcript of all actual grades earned. Refer to the Financial Aid Satisfactory Academic Progress Policy available online.

Some courses may be taken more than once for credit (e.g., PE 185 Sport/Activity courses). In these cases, the grades of the repeated courses will reflect in the cumulative GPA.

# ACADEMIC NOTIFICATION SYSTEM

To help students be successful, the Academic Notification System has been developed to monitor the academic progress of students.

The Academic Notification System is a three-step process designed to alert students to potential lack of progress during their academic career.

Step 1 – **Academic Notification**: This status results when a student's term grade point average (GPA) is below satisfactory progress (2.0).

Step 2 – **Academic Probation**: If the student has received Academic Notification Status and the term GPA is *again* below 2.0, the student is placed on academic probation. The student will continue on probation until the cumulative GPA is 2.0 or higher.

Step 3 – **Academic Suspension**: If, during any term while on probation or previous suspension, the student does not make satisfactory progress, the student will be suspended. This status results when the term GPA and cumulative GPA are below 2.0.

Appeals for reinstatement to Southwestern Oregon Community College after academic suspension are found at Student Success Center or on myLakerLink. Appeals for reinstatement are reviewed by the Academic Standards Committee.

Students receiving financial aid must complete an additional appeal process (FA appeal for reinstatement) following an academic or financial aid suspension.

Students who are academically suspended, but have been absent from Southwestern for five or more years, will be automatically reinstated.

### THE PURPOSE OF THE ACADEMIC NOTIFICATION SYSTEM

To assist each student with accomplishing his/her educational goal by:

- Alerting the student and the college of academic difficulties or deficiencies.
- Providing an opportunity for the college to be of assistance to the student in setting and achieving academic goals.
- Assisting the student in utilizing the facilities and personnel of the college.
- Creating an atmosphere in which the student may be successful in his/her pursuit of an education.

## ACADEMIC EXCELLENCE

Achieve a term grade point average of 4.0 for the quarter with a minimum of 12 credit hours will be listed on the Academic Excellence Roll for that quarter.

## HONOR ROLL

Achieve a term grade point average of 3.5 to 3.99 inclusive with a minimum of 12 credit hours will be listed on the Honor Roll for that quarter.

## DEAN'S LIST

Achieve a term grade point average of 3.0 and 3.49 with a minimum of 12 credit hours will be listed on the Dean's List for that quarter.

## PHI THETA KAPPA

Phi Theta Kappa is the international honor society for two-year colleges. Alpha Kappa Phi is the Southwestern chapter of Phi Theta Kappa. To join Alpha Kappa Phi, a student must have accumulated a total of 12 college-level credits at Southwestern toward an associate's degree and must have a 3.5 cumulative GPA or higher. All members must also maintain at least a 3.5 cumulative GPA.

# GRADUATION

**Students must complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).**

The Graduation Application is available here (www.socc.edu/graduation). Official transcripts from accredited colleges and universities previously attended that apply toward a Southwestern degree or certificate must be on file with the transcript evaluator. All coursework from other colleges will be included in the cumulative GPA regardless of applicability to current coursework. The cumulative GPA, including transfer work, is used to determine eligibility for graduation honors. Final approval of the Graduation Application is given only after grades have been posted for the last term's work. Diplomas and one-year certificates are mailed to the students following this process and may take 4-6 weeks to receive.

Advisors are available to assist students in selecting coursework that applies to the degree or certificate, but students have final responsibility for satisfying graduation requirements.

The graduation ceremony (commencement) is held annually in June. The process above must be completed to be eligible to participate in the commencement ceremony.

All students who have a cumulative 4.0 GPA will be considered Valedictorian status.

# STUDENT SERVICES

## STUDENT SUCCESS CENTER SERVICES

**STUDENT SUCCESS CENTER | STENSLAND HALL | 541-888-7352(COOS) | Accessible Education Page**
**The Mission of the Student Success Center is to provide guidance and support as students navigate their educational journey.**

## ADVISING

We provide counseling, academic advising, testing and accessibility services. We also provide Accuplacer placement tests, ACT/SAT interpretation, GED testing, Pearson Vue Testing and other proctoring of exams. Accuplacer placement testing is available with an appointment, contact 541-888-7405.

## COUNSELING

Whether you're a new student or continuing, full or part-time, there are periods when life, feelings, relationships and expectations can get the best of you. Talking to a counselor can help you manage your academic load, enhance career options and bring out the best in you. Our counselors are available to discuss personal, career or educational concerns. If you're interested in learning to relax and manage your stress, biofeedback sessions are also available. All counseling is private, confidential and provided free of charge.

## ACCESSIBLE EDUCATION OFFICE

The mission of the Accessible Education Office is to create a barrier-free environment to support and celebrate the uniqueness and individualism of students. We want to challenge stereotypes and myths about disability. This office respects all people regardless of disability, economic status, gender, race, religion, political affiliation, ethnic background or sexual orientation.

### WHAT ARE ACCESSIBILITY SERVICES FOR STUDENTS?

We are located in the Dellwood Hall. We provide services, advocacy, and support to students with documented disabilities. We also provide assistance to the general campus community in responding appropriately to students with disabilities by providing reasonable accommodations based on documentation.

**Click here to go to the Accessible Education Page**

### WHAT DO I DO IF I THINK I NEED SERVICES?

If you think you are eligible for services, call our office at 541.888.1578. At that meeting you will be able to discuss the documentation process, services available, and your educational goals. You and the coordinator will determine which services are appropriate for you.

# HOUSING

## STUDENT HOUSING

**LIGHTHOUSE DEPOT | 541-888-7635**

Southwestern Oregon Community College is one of only a few community colleges in the state of Oregon to provide, for one price, housing and meal plans for students . Our 18 buildings offer apartment-style accommodations and quality living/ learning opportunities that are sure to be an integral part of your college experience. We're all about better grades, convenience, security, delicious meals, savings, and friends for a lifetime. For more information visit our website or give us a call at 541.888.7635. We look forward to seeing you!

## STUDENT HOUSING ELIGIBILITY

1. All out-of-district/out-of-state first time freshman students choosing to attend Southwestern must live in Student Housing their freshman year, unless Student Housing is filled, or students meet any one of the following:
   a. Have a dependent or are married.
   b. Are a veteran.
   c. Are 21 years of age prior to the first day of class.
   d. Have earned 45 post high school college credits.
   e. Are approved to enroll in a specific 100% online degree program.
2. Students must be 18 years old before December 15 of the school year they are attending.
3. Students must be enrolled full-time (12 credits) to remain in Student Housing.

Policy exceptions must be requested in writing to the Office of Student Housing.

## APPLICATION PROCESS

The list below is provided to help you complete the application process. The prepayment is refundable according to the "Room and Board Rates and Deadlines" policy. There is no deadline to apply, however, room assignments are based on the date all materials are received and subject to room availability. For this reason it is to your advantage to submit everything as early as possible.

1. Complete the online application and pay the $250 housing prepayment at myLakerLink.
2. Submit copies of MMR Immunization records to Admissions or Student Housing.
3. Submit your Financial Aid paperwork by the deadline listed in the Financial Aid section of this catalog.
4. Receive an official Financial Aid award letter if you are approved.
5. Make payment arrangements on any balance not covered by Financial Aid prior to arrival.
6. If you are applying for a student loan, please contact the Financial Aid office.
7. More information regarding housing is available in the Student Housing Office on our website.

# STUDENT RESOURCES

## CAMPUS STORE

**STENSLAND HALL | 541-888-7264**

The Southwestern Campus Store has all the books and supplies you need to start classes. It also carries snacks, beverages, clothing, backpacks, study aids, greeting cards, computer software, Southwestern memorabilia, and gifts. The Campus Store offers extended hours the first two weeks of fall, winter, and spring terms.

## TUTORING & WRITING CENTERS

**TIOGA HALL 3RD FLOOR | 541-888-1593 | llcinfo@socc.edu**

The Laker Learning Commons houses the Tutoring & Writing Centers and offers qualified student tutors and professional writing tutors to assist with all general course needs. Tutoring is a free service, available in-person or online five days a week. Helpful tutors are available to help with any coursework from 8:00am-8:00pm Monday- Thursday, and from 8:00am-5:00 pm on Fridays, on campus and on Zoom.

## LIBRARY

**COOS CAMPUS | TIOGA HALL 201 | 541-888-7270 | https://www.socc.edu/resources/library/**

We are happy to help with your research needs in person or on Zoom, phone, or email Monday through Friday 8:30 a.m. - 6:00 p.m.

SWOCC library provides physical and digital research materials to students, employees, and the public. These resources include books, films, periodicals, maps, and electronic databases with scholarly articles, eBooks, and other academic content.

You can access these databases off-campus by logging in with your 7-digit student ID number. If your ID number is 6-digits or shorter, please add zeroes to the front until it contains 7-digits. The library also offer computers, scanning/copying, and wireless internet. Printing is available at the cost of 5 cents per side in black and white and 10 cents per side in color.

A Coastline Library card is needed to check out all physical materials. Students can apply for a card at SWOCC Library or any other Coastline Library in Coos and Curry Counties. Likewise, library materials can be ordered for pick-up and returned at any Coastline Library location. Please contact SWOCC Library if you have further questions.

**Curry Students:** The closest Coastline Library to the Curry Campus is Chetco Community Public Library at 405 Alder Street. You have access to SWOCC Library's physical collection through the Coastline Online Catalog, and you can order SWOCC Library items for pick-up at Chetco or any other Coastline library. Additionally, you also have access to the SWOCC Library databases mentioned above. Please email the librarian at noelle.ebert@socc.edu for any questions or comments. We would love to hear from you and learn how we can better support our Curry students!

## RECREATION CENTER

**REC CENTER | 541-888-7714 | https://www.socc.edu/explore-swocc/student-recreation-center/**

The Southwestern Oregon Community College Recreation Center is a recreational and entertainment masterpiece for both students and community patrons. Our facility offers a state-of-the-art Fitness Center with a wide range of Precor/Life Fitness cardio equipment, Life Fitness circuit weight machines, Hammer Strength weight machines, and modern free weight machines, barbells, and dumbbells. The Recreation Center is also home to a collegiate-sized basketball court, indoor rock climbing wall, racquetball court, activity room, dance room, game room, day-use locker rooms, and more!

Students registered for a credit class can enjoy the facility for free. Those not currently taking a credit class, can still register to use the facility at the Rec Center Front Desk.

## INTEGRATED TECHNOLOGY SERVICES

**HELP DESK | 541-888-7999 | RANDOLPH HALL RM 7 | https://mylakerlink.socc.edu/ICS/IT_Help/**

The ITS Helpdesk is staffed between 7am to 8pm Monday-Friday (Monday-Thursday in the summer) and equipped to help you with all your school related IT needs. We can help you with your Microsoft 365 (Outlook, Word, Teams etc.), as well as connectivity issues while on campus. We even diagnose hardware and software issues and give guidance on what to purchase to meet your needs (though we do not purchase or carry replacement equipment or install on non-campus owned machines). If you need a walkthrough of myLakerLink, Canvas, or are experiencing any tech related issues while you attend SWOCC, please give us a call or stop on by and let our friendly techs help you out.

# SPECIAL PROGRAMS

## GED®

GED® is an exam that is equivalent to a high school diploma. The purpose of GED® classes is to improve skills in reading, writing, and math to prepare students to take the GED® exam. The GED® exam consists of four individual tests - Social Studies, Science, Reasoning through Language Arts, and Mathematical Reasoning. Day and evening classes are available on both Coos and Curry County campuses, as well as online, and provide large group, small group, and individualized instruction in a supportive and welcoming environment. **Classes are free for all students.**

A GED® can be earned by anyone who has not completed high school and who is at least 16 years old. Students who are 16 or 17 must obtain an official release from the last school district they last attended before they are permitted to take the GED® exam. Home schooled students must obtain an official release from the Educational Service District before they are permitted to take the GED® exam.

GED® testing is available on the Southwestern campus.
Contact GED® for more information and to schedule testing. A fee still applies for testing. Contact the program for fee assistance information at 541-888-1593.

## ADULT & PRE-COLLEGE EDUCATION

**Laker Learning Commons | TIOGA HALL 3RD FLOOR | 541-888-1593**

The Adult & Pre-College Education Program is for students and community members who are ready to make a positive change in their lives! We provide information, practice skills, and resources to help participants earn their GED®, improve their English language abilities, and brush up on reading, writing, and math skills.

We prepare students for success in their families and communities, the workforce, and future education programs. Classes for Adult Basic Education (ABE), GED®, and English as a Second Language (ESL) are offered every quarter. Services are also provided at our Curry campus in Brookings as well as online. **All Adult & Pre-College Education classes are free of charge.**

## ADULT BASIC EDUCATION (ABE)

If you have a high school diploma or GED® but need some practice in reading, writing, or math, the Adult Basic Education faculty and staff can help. ABE classes can help you improve your reading and writing skills,

improve math comprehension, enhance your job skills, learn to write a resume, prepare for college, and learn computer skills.

# ENGLISH AS A SECOND LANGUAGE (ESL)

If your native language is not English and you wish to learn English, Southwestern offers beginning and intermediate level ESL classes. Students will receive instruction in speaking, reading, writing, and listening to English in a fun, safe classroom atmosphere and through experiential field trips.

# COLLEGE NOW

**541-888-7893**

Southwestern's College Now program provides high school students the opportunity to earn college credits while fulfilling high school graduation requirements. Train for a professional technical career and/or prepare for a smooth, clear transition to the higher education setting, all while still in high school!

College Now programs include:

Dual Credit: College credit classes taught at the high school by high school instructors

Expanded Options: College courses taught by the college instructors at the college or online

- Student must be at least 16 years of age to participate.
- Priorities for at-risk/traditionally underrepresented students

Enhanced Options: College Credit classes taught at/for the high school by college instructors

Earned credit will be on students' Southwestern transcripts. Credit transfer acceptability is at the discretion of the receiving institution. Course offerings vary by high school. For more information, contact the high school counseling office or the Southwestern College Now staff at 541-888-7893 or collegenow@socc.edu.

# TRIO STUDENT SUPPORT SERVICES

**RANDOLPH HALL | 541-888-7419 | sss@socc.edu**

The Student Support Services (SSS) program provides academic support for low income and first-generation college students. The focus of the program is to improve the graduation and transfer rates of first-generation and low-income students, and students with disabilities at Southwestern. Services include regular one-on-one academic and career advising, tutoring, student success workshops, assistance with financial aid and scholarship applications, transfer planning, peer mentoring, and cultural enrichment.

To be eligible for the program a student must be a US citizen or permanent resident and meet at least one of the following eligibility criteria:

- Parents do not have a four-year (bachelor's) degree;
- Meet federal low income guidelines; or
- Have a documented disability.

The Southwestern TRIO-SSS program is funded by the US Department of Education at $360,106 annually and serves 160 students each year. Applications are available on myLakerLink and in Randolph Hall, Rm 6.

# INTERNSHIP PROGRAM

Internships give students real-life hands-on work experience. You can gain valuable workplace insight while earning college credit. Most Associate of Applied Science (AAS) degrees, like the AAS Business Management / Entrepreneurship, require internships or Cooperative Work Experience (CWE) as part of the credits needed for degree competition. However, they are not limited to just that purpose. We encourage students to use internships to explore educational and/or career pursuits. For example, if you are thinking of becoming a teacher, nothing awakens your drive like a term assisting in one of our local classrooms. Internships are a great way to confirm your education and career path.

Internships can be paid or non-paid; it usually depends on the site and their resources. They can be for as little as 1 credit or for as many as 8 credits per term. The average is around 3 per term, which would be about 100 hours of real life experience to add to your resume once you complete your education.

Internships can also be the doorway into future employment and other educational programs. The key to a successful internship is early planning. Contact the Student Success Center – 541-888-7405 - at least one term before you would like the internship to begin. Together we can link learning and life!

# OFFICE OF OPPORTUNITY PROGRAMS

**NEWMARK CENTER | 541-888-7123 | step@socc.edu (sss@socc.edu)**

STEP and JOBS are some of the many wonderful types of assistance the Office of Opportunity Programs has to offer! We also have a Career Pathway/GED Navigator, Resource Navigators, and a Vocational Rehabilitation Navigator to serve our students and community throughout all of Coos and Curry. Our Team is excited to help you find the resources you need to be successful and achieve your goals and dreams!

## STEP PROGRAM

STEP at Southwestern (SNAP Training and Employment Program) is a program that supports SNAP recipients as they work towards completing degrees, certifications, or earning a GED at the college in both Coos and Curry counties. STEP services can include: tuition and book purchase assistance, equipment and supplies assistance, limited assistance with some bills (phone, internet), transportation assistance, help with resumes and job search, and much more! STEP can also refer students to other programs to access extra support services through the college and community.

# STUDENT GOVERNMENT, STUDENT CLUBS, & CO-CURRICULAR ACTIVITIES

**EMPIRE HALL 203 | 541-888-7316 |**

There are several official clubs at Southwestern and new clubs are created each year to meet the changing needs of students. The **Associated Student Government** of Southwestern Oregon Community College (ASG) is a recognized platform for student governance and the development of leadership. Students elect the ASG Class President each spring. ASG charters clubs and organizations on campus and organizes campus activities.

## AMBASSADOR PROGRAM

**DELLWOOD HALL | 541-888-1595 |**

Student Ambassadors work directly with Admissions, Student Success Center, Financial Aid and Housing to help incoming students with the steps to enrollment at Southwestern. They help current students meet registration requirements for all terms and inform prospective students about Southwestern. This position offers hands-on experience in leadership, networking, marketing, recruiting, public relations and Customer Relationship Management software use. These skills will serve them throughout their personal and professional lives.

# VETERANS INFORMATION

**VETERANS SERVICES | RANDOLPH HALL 2 | 541-888-7236 | vets@socc.edu (p. 4)**

Veterans Administration (VA) Mission Statement:

To assist our nation's veterans and their eligible dependents in accessing their VA education benefits, while safeguarding the G.I. Bill® resources available for those educational programs. Provide consistent service, share knowledge, promote individual growth and support opportunities to access higher education.

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government website at http://www.benefits.va.gov/gibill.

Under Title 38 U.S.C. 3679(c) Veterans Access, Choice, and Accountability Act of 2014, the following individuals shall be charged a rate of tuition not to exceed the in-state rate for tuition and fees purposes:

- A Veteran using educational assistance under either Chapter 30 (Montgomery G.I. Bill® - Active Duty Program) or Chapter 33 (Post-9/11 G.I. Bill®), of title 38, United States Code, who lives in the state of Oregon while attending Southwestern Oregon Community College (regardless of his/her formal state of residence).
- Anyone using transferred Post-9/11 G.I. Bill® benefits (38 U.S.C. § 3319) who lives in the state of Oregon while attending Southwestern Oregon Community College (regardless of his/her formal state of residence).
- Anyone using benefits under the Marine Gunnery Sergeant John David Fry Scholarship (38 U.S.C. § 3311 (b)(9)) who lives in the state of Oregon while attending Southwestern Oregon Community College (regardless of his/her formal state of residence).
- Anyone using educational assistance under Chapter 31, Veteran Readiness and Employment (VR&E), who lives in the state of Oregon while attending Southwestern Oregon Community College (regardless of his/her formal state of residence).
- Anyone using educational assistance under Chapter 35 (Dependents' Educational Assistance G.I. Bill®) who lives in the state of Oregon while attending Southwestern Oregon Community College (regardless of his/her formal state of residence).
- Anyone described above while he or she remains continuously enrolled (other than during regularly scheduled breaks between courses, semesters, or terms) at Southwestern Oregon Community College.

## SUCCESSFUL ENROLLMENT AT SOUTHWESTERN

The following steps are provided as a guide to ensure veterans have a smooth transition into the academic life here at Southwestern.

- Fill out an online application for veterans benefits: http://www.benefits.va.gov/gibill and bring a printed copy to the Southwestern Oregon Community College Veterans Office along with a copy of your DD-214 (Member 4) and Disability letter (only for Chapter 31 benefits).
- Apply for admission to Southwestern Oregon Community College.
- Any student receiving G.I. Bill® education benefits while attending Southwestern Oregon Community College is required to obtain transcripts from military training and all previously attended schools and submit them to the school for evaluation of prior credit and shortening of the program proportionately.
- Talk with the Veteran's/Financial Aid staff located in Randolph Hall, or email, to receive all necessary applications and paperwork for processing your financial aid requests.
- Go to the Student Success Center (SSC) in Stensland Hall, to the Student Success Center on our Curry Campus, to complete the placement process and meet with a veterans counselor to schedule your classes.
- Once registered for classes, return to the Veterans Office with a printed schedule so your registration can be verified in the Veterans education database.

In accordance with Title 38 US Code 3679 subsection (e), this school adopts the following additional provisions for any students using U.S. Department of Veterans Affairs (VA) Post 9/11 G.I.Bill® (Ch. 33) or Vocational Rehabilitation and

Employment (Ch. 31) benefits, while payment to the institution is pending from the VA. This school will not:

- Prevent the students' enrollment
- Assess a late penalty fee to
- Require student secure alternative or additional funding
- Deny their access to any resources (access to classes, libraries, or other institutional facilities) available to other students who have satisfied their tuition and fee bills to the institution. However, to qualify for this provision, such students may be required to:
  - Produce the Certificate of Eligibility by the first day of class
  - Provide written request to be certified
  - Provide additional information needed to properly certify the enrollment as described in other institutional policies.

## SATISFACTORY ACADEMIC PROGRESS

Federal regulations require approved schools to have written standards of academic progress for students receiving VA educational benefits. The following are standards for the Southwestern Oregon Community College "Satisfactory Academic Policy," which is defined as maintaining a minimum 2.0 term GPA. Students who fail to meet the criteria for two

quarters will go on “Aid Withheld Status” and failure to meet the criteria for three quarters will result in being placed on “Aid Suspension Status.”

## AID WITHHELD STATUS

If a student has an Aid Withheld Status, they must come to the Veterans Office in person, after the fourth week of the term, to receive a Blue Book for documenting progress in current classes. Students must have instructors sign and document their current grades before returning it to the Veterans Office. If students have a ‘C’ or better in all classes, the student may be retroactively certified to receive benefits.

## AID SUSPENSION STATUS

Students will only be retroactively certified to receive veterans education benefits after grades are released at the end of the term and have successfully passed all classes with a term GPA of 2.0 or better. Upon successfully passing three or more continuous terms, students may request to return to the standard certification process. Blue books are not applicable if students are on Aid Suspension Status.

## DROPPED CLASS POLICY

Students receiving VA education benefits must assume responsibility for notifying the Veterans Office of any changes in their schedule. Students are cautioned that a reduction in credits during the term may result in a reduction of benefit payments and possible debt to the student.

Students must have instructors’ signatures on add/drop forms or instructor authorizations on myLakerLink to add courses after the first Wednesday of the term. Students may withdraw from a course or from all courses through the end of the second Wednesday of the term or within the course’s refund period without responsibility for a grade. Dropping after the refund period will result in “W” grades on transcripts. Students may drop courses until the Wednesday before finals week. Students are strongly encouraged to consult the instructor and their academic advisor before dropping to as certain their status in the course.

## TRAINING TIME MANAGEMENT

Full Time – (12 or More Credits)
Three Quarter Time – (9-11 Credits)
Half Time – (6-8 Credits)
Less than Half Time – (6 Credits or Less)

# INSTITUTIONAL LEARNING OUTCOMES

Students graduating from Southwestern with a two-year degree are expected to have gained the knowledge, skills and attitudes (dispositions) and to demonstrate competency for the following institutional general learning outcomes:

## COMMUNICATION

Students completing a degree will be able to demonstrate effective knowledge, skills, and attitudes in reading, writing, speaking, and listening, presentation of self and information.

## COMPUTATION

Students completing a degree will be able to demonstrate effective knowledge, skills, and attitudes in technology skills, computer proficiency, math proficiency, decision analysis (synthesis & evaluation), understanding of and ability to apply mathematical concepts and reasoning, analyzing and using numerical data.

## CREATIVE, CRITICAL AND ANALYTICAL THINKING

Students completing a degree will be able to demonstrate effective knowledge, skills and attitudes using curiosity, learning strategies, information gathering, analysis, synthesis, evaluation, creativity, research, and problem solving.

## COMMUNITY/GLOBAL CONSCIOUSNESS AND RESPONSIBILITY

Students completing a degree will be able to demonstrate effective knowledge, skills, and attitudes involving respect, citizenship, cultural awareness, interpersonal skills, ethics, lifelong learning, community service, self-esteem, integrity, and empathy.

# DEGREE DESCRIPTIONS

## SOUTHWESTERN OFFERS MANY KINDS OF PROGRAMS TO SERVE YOUR NEEDS!

Career Pathways allow students to gain skills and build toward a degree or certificate program in stages.

Certificates of Completion provide a more in-depth experience in a discipline or field. Often Career Pathways are steps toward Certificates of Completion.

Full degree programs provide students with a well-rounded background to pursue advanced industry and professional training or to transfer to a four-year institution. In some cases, students can earn certificates along the way to their degrees. In other cases, a Southwestern degree is articulated with specific four-year universities.

**Take a look at the components of programs, degrees, certificates, and career pathways that Southwestern offers!**

# TRANSFER DEGREES

### Transferring to Another Institution

Transfer without a degree is an option for Southwestern students. A student may select a major and transfer school, then take only the specific courses required for that major and/or college. Students in certain majors may need to transfer after one year to take advantage of critical major courses offered in the sophomore year at the transfer institution. When a student opts for direct transfer, Southwestern courses are evaluated and accepted on a course-by-course basis by the transfer institution.

Direct transfer students must meet the transfer schools' "freshman" or "transfer admission" requirements. Catalogs from transfer institutions contain information about credit hour and Grade Point Average (GPA) requirements, as well as transfer application procedures.

### Transfer Problems?

If a student has a problem transferring classes to a college or university, the student should first try to resolve the problem through contact with the transfer institution. Southwestern advisors may be of assistance in such cases.

## ARTICULATED DEGREES OFFERED:

The following degrees are designed with a transfer agreement between Southwestern Oregon Community College and the receiving institution. Students planning to transfer should contact an advisor at their transfer college early on and work with their advisor at SWOCC.

| Emphasis | Degree or Direct Transfer | Articulated Agreement |
|---|---|---|
| Associate of Arts Oregon Transfer (p. 45) | AAOT | Eastern Washington University<br>Oregon Public Universities |
| Business (p. 62) | AST-BUS | Oregon Public Universities |
| Computer Science (p. 73) | AST-CS | Oregon Public Universities |
| Chemical Engineering (p. 67) | AS | Oregon State University |
| Chemistry (p. 68) | AS | Southern Oregon University |
| Childhood Education and Family Studies (p. 70) | AS | Southern Oregon University |
| Criminal Justice (p. 78) | AS | Southern Oregon University |
| Ecological Engineering | AS | Oregon State University |
| Electrical/Computer Engineering (p. 86) | AS | Oregon Institute of Technology<br>Oregon State University |
| Elementary Education (p. 88) | AAOT | Oregon Public Universities |
| Environmental Engineering (p. 96) | AS | Oregon State University |
| Fire Science (p. 98) | AS | Eastern Oregon University |
| Forest Engineering (p. 100) | AS | Oregon State University |
| Forestry Management (p. 103) | AS | Oregon State University<br>University of Idaho |
| Forestry Management/ Forest Restoration and Fire (p. 105) | AS | Oregon State University |
| Forestry Management/ Operations Management (p. 107) | AS | Oregon State University |
| Mechanical/Civil Engineering (p. 112) | AS | Oregon Institute of Technology<br>Oregon State University |
| Natural Resources (p. 114) | AS | Oregon State University |
| Nursing (p. 116) | AAS | Oregon Health & Science University |
| Oregon Transfer Module (p. 36) | OTM | Oregon Community Colleges<br>Oregon Public Universities |
| Preschool Child Development (p. 121) | AAS | Southern Oregon University |
| Physics (p. 120) | AS | Oregon State University<br>Portland State University<br>University of Oregon |
| Wood Innovation for Sustainability: Art and Design (p. 129) | AS | Oregon State University |

| | | |
|---|---|---|
| Wood Innovation for Sustainability: Marketing and Management (p. 130) | AS | Oregon State University |
| Wood Innovation for Sustainability: Science and Engineering (p. 131) | AS | Oregon State University |

# ASSOCIATE OF APPLIED SCIENCE (AAS)

The Associate of Applied Science (AAS) is a state approved type of associate's degree that is intended to prepare graduates for direct entry into the workforce. An AAS may also help to prepare students for career advancements, occupational licensure, or further study toward a baccalaureate degree. Below are the general education requirements that make up an AAS program. Students must declare an AAS in a specific subject, they cannot be awarded an AAS with no specialization.

## CREDIT CHANGES IN AAS DEGREES

When the college approves changes in credits to require "in the discipline" courses, a student transcript may indicate an overall credit shortage. The college will allow the Registrar's Office to apply any unused course credit from within the discipline to meet the required credit count. And, the student may take any additional coursework within the discipline, as needed, to fulfill the total required credits for the degree and catalog year in question.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 90 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## ASSOCIATE OF APPLIED SCIENCE DEGREES OFFERED:

- /programsaz/associate-applied-science-paramedicine/
- Accounting, Associate of Applied Science (p. 41)
- Agroecology, Associate of Applied Science (p. 44)
- Baking and Pastry Arts, Associate of Applied Science (p. 54)
- Baking Management, Associate of Applied Science (p. 56)
- Business Management/Entrepreneurship, Associate of Applied Science (p. 59)
- CIS Digital Design, Associate of Applied Science (p. 72)
- Culinary Arts, Associate of Applied Science (p. 80)
- Culinary Management, Associate of Applied Science (p. 82)
- Ecological Engineering, Associate of Science (p. 85)
- Fire Science, Associate of Applied Science (p. 97)
- Human Services, Associate of Applied Science (p. 110)
- Nursing, Associate of Applied Science (p. 116)
- Preschool Child Development, Associate of Applied Science (p. 121)
- Water Quality Treatment, Associate of Applied Science (p. 124)
- Welding, Associate of Applied Science (p. 125)

## RELATED INSTRUCTION REQUIREMENTS

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

### WRITING

**Four (4) credit hours from:**

| Code | Title | Credits |
|---|---|---|
| WR115 | Fundamentals of Report Writing | 4 |
| WR121Z | Composition I | 4 |
| WR122Z | Composition II | 4 |

### COMMUNICATION

**One (1) course taken from:**

| Code | Title | Credits |
|---|---|---|
| COMM100Z | Introduction to Communication | 4 |
| COMM111Z | Public Speaking | 4 |
| COMM218Z | Interpersonal Communication | 4 |
| COMM219 | Small Group Discussion | 4 |

### COMPUTATION

**Select four (4) credit hours of college-level mathematics** from MTH65 or higher, excluding MTH211:

| Code | Title | Credits |
|---|---|---|
| MTH65 | Algebra II | 4 |
| MTH80 | Technical Mathematics I | 4 |
| MTH81 | Applied Mathematics for Culinary Arts | 4 |
| MTH82 | Business Mathematics | 4 |
| MTH98 | Math Literacy | 4 |
| MTH105Z | Math in Society | 4 |
| MTH111Z | Pre-Calculus | 4 |
| MTH112Z | Precalculus II: Trigonometry | 4 |
| MTH212 | Fundamentals of Elementary Mathematics II | 4 |
| MTH213 | Fundamentals of Elementary Mathematics III | 4 |
| MTH231 | Elements of Discrete Mathematics I | 4 |
| MTH232 | Elements of Discrete Mathematics II | 4 |
| MTH241 | Calculus for Bus and Soc Science I | 4 |
| MTH242 | Calculus for Bus and Soc Science II | 4 |
| MTH244 | Probability & Statistics II | 4 |
| MTH251Z | Differential Calculus | 4 |
| MTH252Z | Integral Calculus | 4 |
| MTH253Z | Calculus: Sequences and Series | 4 |
| MTH254 | Vector Calculus I | 4 |
| MTH255 | Vector Calculus II | 4 |
| MTH256 | Differential Equations | 4 |
| MTH260 | Matrix Methods and Linear Algebra | 4 |
| STAT243Z | Elementary Statistics I | 4 |

### HEALTH, WELLNESS, AND FITNESS

**Three (3) credits of health/PE:** Three (3) credits of PE185 sport/activity courses or HE250 Personal Health or PE231 Wellness for Life.

### HUMAN RELATIONS

**Three (3) credits or as specified in AAS degree program:**

| Code | Title | Credits |
|---|---|---|
| BA120 | Leadership Development | 3 |
| BA285 | Human Relations in Organizations | 3 |
| PSY100 | Introduction to Psychology | 4 |
| PSY201Z | Introduction to Psychology I | 4 |
| PSY202Z | Introduction to Psychology II | 4 |

## ELECTIVES

**The balance of the requirements may not be a prerequisite course to the degree/program requirements and may not include remedial or developmental courses. Prerequisites are designated in each program.**

Students graduating from Southwestern with a two-year degree are expected to have gained the knowledge, skills and attitudes (dispositions) and to demonstrate competency for the following institutional general learning outcomes:

## COMMUNICATION

Students completing a degree will be able to demonstrate effective knowledge, skills, and attitudes in reading, writing, speaking, and listening, presentation of self and information.

## COMPUTATION

Students completing a degree will be able to demonstrate effective knowledge, skills, and attitudes in technology skills, computer proficiency, math proficiency, decision analysis (synthesis & evaluation), understanding of and ability to apply mathematical concepts and reasoning, analyzing and using numerical data.

## CREATIVE, CRITICAL AND ANALYTICAL THINKING

Students completing a degree will be able to demonstrate effective knowledge, skills and attitudes using curiosity, learning strategies, information gathering, analysis, synthesis, evaluation, creativity, research, and problem solving.

## COMMUNITY/GLOBAL CONSCIOUSNESS AND RESPONSIBILITY

Students completing a degree will be able to demonstrate effective knowledge, skills, and attitudes involving respect, citizenship, cultural awareness, interpersonal skills, ethics, lifelong learning, community service, self-esteem, integrity, and empathy.

## DISCIPLINE CONTENT

Students completing a degree will be able to demonstrate effective skills and attitudes that are specific to a discipline or career.

# ASSOCIATE OF GENERAL STUDIES (AGS)

The purpose of the Associate of General Studies (AGS) degree is to provide students an opportunity to pursue a broad general education during the two years at a community college. It is intended as a flexible program for the student who is not pursuing a specified curriculum in the lower division transfer or career technical areas. The AGS degree may, in addition to including the number of hours in the divisional areas as listed below, include courses in lower division collegiate transfer and career technical education. Because of the flexibility and broad approach of this degree, a student may find that it may not fulfill all of the requirements of full junior standing when transferred to a four-year institution.

This flexible degree option enables a student to complete an associate's degree that is tailored to the general education requirements of the transfer school. Students must exercise caution in using the AGS option, as the degree does not guarantee transferability of courses completed. Educational planning for the AGS should be done with the help of an advisor.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 90 credit hours of specified courses with a cumulative Grade Point Average (GPA) of 2.0 or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded. In addition to the General Education Requirements and the Distribution Requirements, students must complete enough elective courses to reach a total of 90 credits for the degree. All courses must be numbered 100 or above to counts toward an AGS degree.

Students must complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## GENERAL EDUCATION REQUIREMENTS

### WRITING

**Eight (8) credits** of writing are required, so choose **two (2) courses** from below. Information Literacy will be included in the writing requirement**:**

| Code | Title | Credits |
|---|---|---|
| WR121Z | Composition I | 4 |
| WR122Z | Composition II | 4 |
| or WR227Z | Technical Writing | |

### COMMUNICATION

**One (1) course in speech:**

| Code | Title | Credits |
|---|---|---|
| COMM100Z | Introduction to Communication | 4 |
| COMM111Z | Public Speaking | 4 |
| COMM218Z | Interpersonal Communication | 4 |
| COMM219 | Small Group Discussion | 4 |

### MATHEMATICS

**One (1) course of college-level mathematics** from MTH105Z Math in Society or higher, excluding MTH211 Fundamentals of Elementary Mathematics I.

### HEALTH, WELLNESS, AND FITNESS

**Three (3) credits** of PE185 sport/activity or choose one (1) three-credit course from HE250 Personal Health or PE231 Wellness for Life.

## DISTRIBUTION REQUIREMENTS

### ARTS AND LETTERS

**Three (3) courses from:**

*Note: A second-year foreign language may be included, but not a first-year foreign language.*

| Code | Title | Credits |
|---|---|---|
| ART115 | Basic Design I Intro to Elements of Art and Principles of Design | 4 |
| ART116 | Basic Design II, Color Theory | 4 |
| ART117 | Basic Design III, Intro to 3D Desgn | 4 |
| ART131 | Introduction to Drawing I | 3 |
| ART132 | Introduction to Drawing II | 3 |
| ART133 | Introduction to Drawing III | 3 |
| ART191 | Beginning Sculpture | 3 |
| ART192 | Beginning Sculpture | 3 |
| ART204 | History of Western Art: Introduction to Art History | 3 |
| ART205 | History of Western Art: Introduction to Art History | 3 |
| ART206 | History of Western Art: Introduction to Art History | 3 |
| ART244 | Bronze Casting | 3 |
| ART253 | Ceramics I | 3 |
| ART256 | Ceramics II | 3 |
| ART281 | Painting I Beginning | 3 |
| ART282 | Painting II Beginning | 3 |
| ART283 | Painting III Beginning | 3 |
| ART284 | Painting I Intermediate | 3 |
| ART285 | Painting II Intermediate | 3 |
| ART286 | Painting III Intermediate | 3 |
| ASL201 | 2nd Yr American Sign Language I | 4 |
| ASL202 | 2nd Yr American Sign Language II | 4 |
| ASL203 | 2nd Yr American Sign Language III | 4 |
| COMM100Z | Introduction to Communication | 4 |
| COMM111Z | Public Speaking | 4 |
| COMM218Z | Interpersonal Communication | 4 |
| COMM219 | Small Group Discussion | 4 |
| COMM220 | Gender And Communication | 4 |
| ENG104Z | Introduction To Fiction | 4 |
| ENG105Z | Introduction To Drama | 4 |
| ENG106Z | Introduction To Poetry | 4 |
| ENG107 | World Literature | 3 |
| ENG108 | World Literature | 3 |
| ENG109 | World Literature | 3 |
| ENG201 | Shakespeare | 3 |

| | | |
|---|---|---|
| ENG204 | Survey of English Literature | 3 |
| ENG205 | Survey of English Literature | 3 |
| ENG206 | Survey of English Literature | 3 |
| ENG253 | Survey of American Literature | 3 |
| ENG254 | Survey of American Literature | 3 |
| ENG255 | Survey of American Literature | 3 |
| HUM204 | World Mythology & Religion | 3 |
| HUM205 | World Mythology & Religion | 3 |
| HUM206 | World Mythology & Religion | 3 |
| MUS101 | Music Fundamentals | 3 |
| MUS111 | Music Theory I | 3 |
| MUS112 | Music Theory II | 3 |
| MUS113 | Music Theory III | 3 |
| MUS201 | Intro to Music and its Literature | 3 |
| MUS202 | Intro to Music and its Literature | 3 |
| MUS203 | Intro to Music and its Literature | 3 |
| MUS205 | Intro to Jazz History | 3 |
| MUS206 | Intro to History of Rock and Roll | 3 |
| MUS211 | Advanced Music Theory I | 3 |
| MUS212 | Advanced Music Theory II | 3 |
| MUS213 | Advanced Music Theory III | 3 |
| PHL101 | Introduction to Philosophy: Philosophical Problems | 3 |
| PHL102 | Ethics | 3 |
| PHL103 | Intro to Logic and Critical Thnkg | 3 |
| SPAN201 | Second Year Spanish | 4 |
| SPAN202 | Second Year Spanish | 4 |
| SPAN203 | Second Year Spanish | 4 |
| WR241 | Imaginative Creative Writing Fiction | 3 |
| WR242 | Imaginative Writing Poetry | 3 |
| WR243 | Imaginative Creative Writing - Play | 3 |
| TA141 | Acting I | 3 |
| TA142 | Acting II | 3 |
| TA143 | Acting Iii | 3 |
| TA153 | Rehearsal/Performnc | 3 |

## SOCIAL SCIENCES

**Three (3) courses from:**

| Code | Title | Credits |
|---|---|---|
| ANTH201 | Physical Anthropology and Evolution | 3 |
| ANTH202 | Introduction to Archaeology | 3 |
| ANTH203 | Language and Culture | 3 |
| ANTH221 | Intro to Cultural Anthropology | 3 |
| ANTH222 | Cultural Anthropology II | 3 |
| ANTH223 | Cultural Anthropology III | 3 |
| ANTH224 | Intro to Medical Anthropology | 3 |
| ANTH230 | Native North Americans: Oregon | 3 |
| ANTH231 | Native North Americans: PNW | 3 |
| ANTH232 | Native North Americans | 3 |
| CJ101 | Intro to Criminology | 4 |
| ECON201Z | Principles of Microeconomics | 4 |
| ECON202Z | Principles of Macroeconomics | 4 |
| ED169 | Overview of Student Special Needs | 3 |
| ED258 | Multicultural Education | 3 |
| GEOG105 | Cultural Geography | 3 |
| HDFS140 | Contemporary American Families | 3 |
| HDFS222 | Understanding Families: Supporting Diversity Disability and Risk | 3 |
| HDFS229 | Child Development PreK - Adolescent | 3 |
| HDFS247 | Child Development 0-8 | 3 |
| HST101 | History of Western Civilization | 3 |
| HST102 | History of Western Civilization | 3 |
| HST103 | History of Western Civilization | 3 |
| HST104 | History of the Middle East | 3 |
| HST195 | History of the Vietnam War | 3 |
| HST201 | History of the United States | 3 |
| HST202 | History of the United States | 3 |
| HST203 | History of the United States | 3 |
| HST240 | Hist of Oregon and the South Coast | 3 |
| PS201 | American Government: Political Institutions | 3 |
| PS202 | American Government: Policy Issues | 3 |
| PS203 | Local Politics and Government | 3 |
| PS205 | International Relations: US Foreign Policy in the 20th Century | 3 |
| PSY100 | Introduction to Psychology | 4 |
| PSY201Z | Introduction to Psychology I | 4 |
| PSY202Z | Introduction to Psychology II | 4 |
| PSY216 | Social Psychology | 3 |
| PSY228 | Introduction to Social Science Research | 3 |
| PSY231 | Human Sexuality | 3 |
| PSY237 | Life Span Development | 3 |
| PSY239 | Introduction to Abnormal Psychology | 3 |
| SOC204Z | Introduction to Sociology | 4 |
| SOC205Z | Social Change and Institutions | 4 |
| SOC206Z | Social Problems | 4 |
| SOC208 | Sociology of Sport | 3 |
| SOC210 | Marriage and Family | 3 |
| SOC213 | Racial and Ethnic Relations | 3 |
| SOC218 | Sociology of Gender | 3 |

# SCIENCE/MATHEMATICS/COMPUTER SCIENCE

**Select three (3) courses with a minimum of two (2) laboratory courses in biological or physical science:**

## LABORATORY COURSES

| Code | Title | Credits |
|---|---|---|
| BI101 | General Biology | 4 |
| BI102 | General Biology | 4 |
| BI103 | General Biology | 4 |
| BI142 | Habitats: Marine Biology | 4 |
| BI221Z | Principles of Biology: Cells | 5 |

| | | |
|---|---|---|
| BI222Z | Principles of Biology: Organisms | 5 |
| BI223Z | Principles of Biology: Ecolo/Evolut | 5 |
| BI231 | Human Anatomy and Physiology I | 4 |
| BI232 | Human Anatomy and Physiology II | 4 |
| BI233 | Human Anatomy and Physiology III | 4 |
| BI234 | Microbiology | 4 |
| CHEM221Z | General Chemistry I (with 1 cr. lab CHEM227Z) | 4 |
| CHEM222Z | General Chemistry II (with 1 cr. lab CHEM228Z) | 4 |
| CHEM223Z | General Chemistry III (with 1 cr. lab CHEM229Z) | 4 |
| ENV235 | Introduction to Soil Science | 4 |
| G201 | Physical Geology I | 4 |
| G202 | Physical Geology II | 4 |
| G203 | Historical Geology | 4 |
| GS104 | Physical Science | 4 |
| GS105 | Physical Science | 4 |
| GS106 | Introduction to Earth Science | 4 |
| GS107 | Astronomy | 4 |
| GS108 | Oceanography | 4 |
| NR260 | Watershed Processes | 4 |
| PH201 | General Physics I: Mechanics | 5 |
| PH202 | General Physics II: Heat, Waves, Relativity | 5 |
| PH203 | Gen Physics III: Elect & Magnetism | 5 |
| PH211 | General Physics with Calculus I | 5 |
| PH212 | General Physics with Calculus II | 5 |
| PH213 | General Physics with Calculus III | 5 |

## NON-LABORATORY COURSES

| Code | Title | Credits |
|---|---|---|
| BI140 | Practical Ecology | 3 |
| BI149 | Introduction to Human Genetics | 3 |
| CHEM110 | Foundations of General, Organic, and Biochemistry | 4 |
| CS160 | Introduction To Computer Science | 4 |
| CS161 | Computer Science I | 4 |
| CS162 | Computer Science II | 4 |
| CS260 | Data Structures | 4 |
| ENV110 | Introduction Environmental Science | 3 |
| G221 | General Geology | 3 |
| G246 | Geological Hazards And Natural Catastrophes | 3 |
| MTH105Z | Math in Society | 4 |
| MTH111Z | Pre-Calculus | 4 |
| MTH112Z | Precalculus II: Trigonometry | 4 |
| MTH212 | Fundamentals of Elementary Mathematics II | 4 |
| MTH213 | Fundamentals of Elementary Mathematics III | 4 |
| MTH231 | Elements of Discrete Mathematics I | 4 |
| MTH232 | Elements of Discrete Mathematics II | 4 |
| MTH241 | Calculus for Bus and Soc Science I | 4 |
| MTH242 | Calculus for Bus and Soc Science II | 4 |
| MTH244 | Probability & Statistics II | 4 |
| MTH251Z | Differential Calculus | 4 |
| MTH252Z | Integral Calculus | 4 |
| MTH253Z | Calculus: Sequences and Series | 4 |
| MTH254 | Vector Calculus I | 4 |
| MTH255 | Vector Calculus II | 4 |
| MTH256 | Differential Equations | 4 |
| MTH260 | Matrix Methods and Linear Algebra | 4 |
| MTH264 | Introduction to Matrix Algebra and Power Series | 4 |
| STAT243Z | Elementary Statistics I | 4 |

# ELECTIVES

- Students may take any college-level course including career and technical education courses without limitation that would bring total credits to 90 credit hours.
- A maximum of nine (9) credits of PE185 sport/activity courses may be applied toward an AGS degree.
- Three (3) credits hours of PE185 may be granted toward an AGS degree for completion of military basic training. A copy of the military transcript or DD-214 is required.
- Courses numbered 199/299 will qualify as elective credit only.

## SUPPORTIVE COURSES

*Note: The College has determined that the following supportive courses may be necessary to assist students to successfully complete their program; they count as electives only.*

| Code | Title | Credits |
|---|---|---|
| CIS120 | Concepts of Computing | 4 |
| CIS125W | Word Processing Applications Microsoft | 3 |
| HD100 | College Success and Survival | 3 |
| HD102 | College Nuts and Bolts | 1 |
| HD111 | Math Success | 2 |
| HD112 | Study Skills | 3 |
| HD113 | Stop Test Anxiety Now | 1 |
| HD152 | Stress Management | 2 |
| HD208 | Career/Life Plan | 3 |

*A maximum number of 45 credits is allowed for basic, developmental, or supportive courses under federal financial aid guidelines.*

Students graduating from Southwestern with a two-year degree are expected to have gained the knowledge, skills and attitudes (dispositions) and to demonstrate competency for the following institutional general learning outcomes:

## ARTS & LETTERS

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

## 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.

## 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**.**

## 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.

## SPEECH/ORAL COMMUNICATION

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

## WRITING

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

## INFORMATION LITERACY

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

# CERTIFICATES OF COMPLETION

A Certificate of Completion is awarded for a specific curriculum of fewer than 90 credits and is approved by the Office of Community Colleges and Workforce Development in accordance with the Higher Education Coordinating Commission (HECC) policy. Programs that are at least 45 credits are considered One-Year Certificates of Completion and are eligible for federal financial aid. Programs that are fewer than 45 credits are considered Less Than One-Year Certificates of Completion. These programs are state approved but may not be eligible for federal financial aid.

## GRADUATION REQUIREMENTS

- The One-Year Certificate of Completion will be awarded to students who satisfy the following requirements:
  a. Complete all courses with a C grade or better. Complete one credit-bearing course at Southwestern before the Certificate of Completion is awarded.
  b. Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).
  c. Twelve (12) credits must be completed at Southwestern before the Certificate of Completion is awarded.
- The Less Than One-Year Certificate of Completion and Career Pathway Certificate of Completion will be awarded to students who satisfy the following requirements:
  a. Complete all courses with a C grade or better. Complete one credit-bearing course at Southwestern before the Certificate of Completion is awarded.
  b. Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).
  c. Six (6) credits must be completed at Southwestern before the Career Pathway Certificate of Completion is awarded.

## ONE-YEAR CERTIFICATES OF COMPLETION OFFERED:

- Accounting Clerk, Certificate of Completion (p. 42)
- Baking and Pastry Arts, Certificate of Completion (p. 55)
- Childhood Education and Family Studies, Preschool Children, Education and Development, Certificate of Completion (p. 122)
- Culinary Arts, Certificate of Completion (p. 81)
- Dental Assisting, Certificate of Completion (p. 84)
- Digital Design, Certificate of Completion
- Forest Technology, Certificate of Completion (p. 102)
- Medical Assistant, Certificate of Completion (p. 114)
- Pharmacy Technician, Certificate of Completion (p. 119)
- Practical Nursing, Certificate of Completion (p. 118)
- Welding, Certificate of Completion (p. 128)

## WHAT IS A CAREER PATHWAY CERTIFICATE OF COMPLETION?

A Career Pathway Certificate of Completion is an Oregon community college credential comprised of 12-44 credits that are wholly contained in an approved Associate of Applied Science (AAS) degree/option or an independent Certificate of Completion (45+ credits). The Career Pathway Certificate provides a state-sanctioned credential for a course of study that: 1) acknowledges a specific skill proficiency to help students qualify for a job or enhanced employment opportunities; 2) is centered on the needs of students by providing educational options; and 3) provides the flexibility to achieve specific competencies within a longer term career path. These certificates lead to an AAS degree - or even beyond.

## CAREER PATHWAY CERTIFICATES OF COMPLETION OFFERED:

- /programsaz/associate-applied-science-paramedicine/career-pathway-certificate-completion-ems-technician-i/
- /programsaz/associate-applied-science-paramedicine/career-pathway-certificate-completion-ems-technician-ii/
- Digital Image Foundations, Career Pathway Certificate of Completion
- Digital Interactive Foundations, Career Pathway Certificate of Completion
- Entry-Level Bookkeeping, Career Pathways Certificate of Completion (p. 42)
- Human Services: Addiction Studies, Career Pathway Certificate of Completion (p. 111)
- Marketing, Career Pathway Certificate of Completion (p. 60)
- Pipe Fitting, Career Pathway Certificate of Completion (p. 126)
- Supervision, Career Pathway Certificate of Completion (p. 61)
- Welding Assistant, Career Pathway Certificate of Completion (p. 126)
- Welding Technician, Career Pathway Certificate of Completion (p. 127)

## LESS THAN ONE-YEAR CERTIFICATE OF COMPLETION OFFERED:

- Retail Management, Less Than One Year Certificate of Completion (p. 123)
- Geographic Information Systems, Less Than One Year Certificate of Completion (p. 109)

## STUDENT LEARNING OUTCOMES

### COMMUNICATION

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

## COMPUTATION

- Analyze and evaluate real-world problems in a logical manner.
- Model, analyze, and solve real-world problems in a mathematical context.
- Utilize technology for analyzing and evaluating real-world problems.

## HUMAN RELATIONS

- Understand the importance of goal setting, planning, and the impact of a positive mental outlook in both one's personal and professional life.
- Recognize and respect diversity as a vital component of effective human relation skills.

# OREGON TRANSFER MODULE (OTM)

The Oregon Transfer Module (OTM) is an approved 45 credits of general education courses (foundational skills and introduction to discipline courses) that are common among Oregon's colleges and universities. Courses are selected from an approved list of 100 and 200-level general education requirements, determined by each Oregon community college, Oregon university institution, or participating Oregon independent college or university. It is designed to improve student access to a college degree by enhancing opportunities for the transfer of credits earned at one community college or Oregon university campus to another public college or university.

The OTM includes coursework chosen from the courses approved for the categories found in the program guide (p. 36) by the institution issuing the credit. In the case of community colleges, these are courses approved for the AAOT degree; in the case of universities and four-year colleges, they are courses approved for the general education portion of a bachelor's degree.

Any student completing an OTM that conforms to the guidelines below will have met the requirements for the OTM at any Oregon community college or public university. At the time of transfer, the receiving institution may specify additional coursework for a major or degree, any additional institution-specific general education requirements not included in the OTM, or to make up the difference between the OTM and the institution's total general education requirements.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 45 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be passed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

Complete elective courses to reach a total of 45 credits. The courses must be numbered 100 or above. Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM NOTES

- Courses that are designed to prepare students for college-level work (also called developmental courses) are not applicable to the OTM.
- When choosing courses in science and mathematics, students and advisors should check the specific requirements at receiving schools. Courses that include a laboratory component, or that deal with specific subjects, may be required for majors or degrees.
- Computer science courses used in the Science/Mathematics/Computer Science area must meet Oregon Council of Computer Chairs criteria for a science course.
- In the Arts and Letters category, the second year of a foreign language may be included, but not the first year. American Sign Language (ASL) is considered a foreign language.
- OTM credits may not match program requirements in the receiving school. The OTM supplements, but does not supplement existing articulation agreements and does not replace effective advising.

## FOUNDATIONAL SKILLS REQUIREMENTS

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

### WRITING

**Eight (8) credits from:**

| Code | Title | Credits |
|---|---|---|
| WR121Z | Composition I | 4 |
| WR122Z | Composition II | 4 |
| or WR227Z | Technical Writing | |

*Note: Information Literacy is included through embedding the appropriate content and analytical activity in courses that count toward the writing Foundational Skills Requirement.*

### MATHEMATICS

**One (1) course from:**

| Code | Title | Credits |
|---|---|---|
| MTH105Z | Math in Society | 4 |

### COMMUNICATION

**One (1) course from:**

| Code | Title | Credits |
|---|---|---|
| COMM100Z | Introduction to Communication | 4 |
| COMM111Z | Public Speaking | 4 |
| COMM218Z | Interpersonal Communication | 4 |
| COMM219 | Small Group Discussion | 4 |

## INTRODUCTION TO DISCIPLINE STUDIES REQUIREMENTS

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

### ARTS AND LETTERS

**Three (3) courses from:**

***Note:* A second year foreign language may be included, but not first year.**

| Code | Title | Credits |
|---|---|---|
| ART115 | Basic Design I Intro to Elements of Art and Principles of Design | 4 |
| ART116 | Basic Design II, Color Theory | 4 |
| ART117 | Basic Design III, Intro to 3D Desgn | 4 |
| ART131 | Introduction to Drawing I | 3 |
| ART132 | Introduction to Drawing II | 3 |
| ART133 | Introduction to Drawing III | 3 |
| ART191 | Beginning Sculpture | 3 |
| ART192 | Beginning Sculpture | 3 |
| ART204 | History of Western Art: Introduction to Art History | 3 |
| ART205 | History of Western Art: Introduction to Art History | 3 |
| ART206 | History of Western Art: Introduction to Art History | 3 |
| ART244 | Bronze Casting | 3 |
| ART253 | Ceramics I | 3 |
| ART256 | Ceramics II | 3 |

| | | |
|---|---|---|
| ART281 | Painting I Beginning | 3 |
| ART282 | Painting II Beginning | 3 |
| ART283 | Painting III Beginning | 3 |
| ART284 | Painting I Intermediate | 3 |
| ART285 | Painting II Intermediate | 3 |
| ART286 | Painting III Intermediate | 3 |
| ASL201 | 2nd Yr American Sign Language I | 4 |
| ASL202 | 2nd Yr American Sign Language II | 4 |
| ASL203 | 2nd Yr American Sign Language III | 4 |
| COMM100Z | Introduction to Communication | 4 |
| COMM111Z | Public Speaking | 4 |
| COMM218Z | Interpersonal Communication | 4 |
| COMM219 | Small Group Discussion | 4 |
| COMM220 | Gender And Communication | 4 |
| ENG104Z | Introduction To Fiction | 4 |
| ENG105Z | Introduction To Drama | 4 |
| ENG106Z | Introduction To Poetry | 4 |
| ENG107 | World Literature | 3 |
| ENG108 | World Literature | 3 |
| ENG109 | World Literature | 3 |
| ENG201 | Shakespeare | 3 |
| ENG204 | Survey of English Literature | 3 |
| ENG205 | Survey of English Literature | 3 |
| ENG206 | Survey of English Literature | 3 |
| ENG253 | Survey of American Literature | 3 |
| ENG254 | Survey of American Literature | 3 |
| ENG255 | Survey of American Literature | 3 |
| HUM204 | World Mythology & Religion | 3 |
| HUM205 | World Mythology & Religion | 3 |
| HUM206 | World Mythology & Religion | 3 |
| MUS101 | Music Fundamentals | 3 |
| MUS111 | Music Theory I | 3 |
| MUS112 | Music Theory II | 3 |
| MUS113 | Music Theory III | 3 |
| MUS201 | Intro to Music and its Literature | 3 |
| MUS202 | Intro to Music and its Literature | 3 |
| MUS203 | Intro to Music and its Literature | 3 |
| MUS205 | Intro to Jazz History | 3 |
| MUS206 | Intro to History of Rock and Roll | 3 |
| MUS211 | Advanced Music Theory I | 3 |
| MUS212 | Advanced Music Theory II | 3 |
| MUS213 | Advanced Music Theory III | 3 |
| PHL101 | Introduction to Philosophy: Philosophical Problems | 3 |
| PHL102 | Ethics | 3 |
| PHL103 | Intro to Logic and Critical Thnkg | 3 |
| SPAN201 | Second Year Spanish | 4 |
| SPAN202 | Second Year Spanish | 4 |
| SPAN203 | Second Year Spanish | 4 |
| WR241 | Imaginative Creative Writing Fiction | 3 |
| WR242 | Imaginative Writing Poetry | 3 |
| WR243 | Imaginative Creative Writing - Play | 3 |

## SOCIAL SCIENCES

**Three (3) courses from:**

| Code | Title | Credits |
|---|---|---|
| ANTH201 | Physical Anthropology and Evolution | 3 |
| ANTH202 | Introduction to Archaeology | 3 |
| ANTH203 | Language and Culture | 3 |
| ANTH221 | Intro to Cultural Anthropology | 3 |
| ANTH222 | Cultural Anthropology II | 3 |
| ANTH223 | Cultural Anthropology III | 3 |
| ANTH224 | Intro to Medical Anthropology | 3 |
| ANTH230 | Native North Americans: Oregon | 3 |
| ANTH231 | Native North Americans: PNW | 3 |
| ANTH232 | Native North Americans | 3 |
| CJ101 | Intro to Criminology | 4 |
| ECON201Z | Principles of Microeconomics | 4 |
| ECON202Z | Principles of Macroeconomics | 4 |
| ED169 | Overview of Student Special Needs | 3 |
| ED258 | Multicultural Education | 3 |
| GEOG105 | Cultural Geography | 3 |
| HDFS140 | Contemporary American Families | 3 |
| HDFS222 | Understanding Families: Supporting Diversity Disability and Risk | 3 |
| HDFS229 | Child Development PreK - Adolescent | 3 |
| HDFS247 | Child Development 0-8 | 3 |
| HST101 | History of Western Civilization | 3 |
| HST102 | History of Western Civilization | 3 |
| HST103 | History of Western Civilization | 3 |
| HST104 | History of the Middle East | 3 |
| HST195 | History of the Vietnam War | 3 |
| HST201 | History of the United States | 3 |
| HST202 | History of the United States | 3 |
| HST203 | History of the United States | 3 |
| HST240 | Hist of Oregon and the South Coast | 3 |
| PS201 | American Government: Political Institutions | 3 |
| PS202 | American Government: Policy Issues | 3 |
| PS203 | Local Politics and Government | 3 |
| PS205 | International Relations: US Foreign Policy in the 20th Century | 3 |
| PSY100 | Introduction to Psychology | 4 |
| PSY201Z | Introduction to Psychology I | 4 |
| PSY202Z | Introduction to Psychology II | 4 |
| PSY216 | Social Psychology | 3 |
| PSY228 | Introduction to Social Science Research | 3 |
| PSY231 | Human Sexuality | 3 |
| PSY237 | Life Span Development | 3 |
| PSY239 | Introduction to Abnormal Psychology | 3 |
| PSY243 | Drugs and Behavior | 3 |
| SOC204Z | Introduction to Sociology | 4 |

| | | |
|---|---|---|
| SOC205Z | Social Change and Institutions | 4 |
| SOC206Z | Social Problems | 4 |
| SOC208 | Sociology of Sport | 3 |
| SOC210 | Marriage and Family | 3 |
| SOC213 | Racial and Ethnic Relations | 3 |
| SOC218 | Sociology of Gender | 3 |

## SCIENCE/MATHEMATICS/COMPUTER SCIENCE

**Three (3) courses, including at least one (1) biological or physical science with lab:**

### Laboratory Courses

| Code | Title | Credits |
|---|---|---|
| BI221Z | Principles of Biology: Cells | 5 |
| BI222Z | Principles of Biology: Organisms | 5 |
| BI223Z | Principles of Biology: Ecolo/Evolut | 5 |
| BI142 | Habitats: Marine Biology | 4 |
| BI201 | | 4 |
| BI202 | | 4 |
| BI203 | | 4 |
| BI231 | Human Anatomy and Physiology I | 4 |
| BI232 | Human Anatomy and Physiology II | 4 |
| BI233 | Human Anatomy and Physiology III | 4 |
| BI234 | Microbiology | 4 |
| CHEM221Z | General Chemistry I (must also take CHEM227Z) | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |
| CHEM222Z | General Chemistry II (must also take CHEM228Z) | 4 |
| CHEM228Z | General Chemistry II Laboratory | 1 |
| CHEM223Z | General Chemistry III (must also take CHEM229Z) | 4 |
| CHEM229Z | General Chemistry III Laboratory | 1 |
| ENV235 | Introduction to Soil Science | 4 |
| G201 | Physical Geology I | 4 |
| G202 | Physical Geology II | 4 |
| G203 | Historical Geology | 4 |
| GS104 | Physical Science | 4 |
| GS105 | Physical Science | 4 |
| GS106 | Introduction to Earth Science | 4 |
| GS107 | Astronomy | 4 |
| GS108 | Oceanography | 4 |
| NR260 | Watershed Processes | 4 |
| PH201 | General Physics I: Mechanics | 5 |
| PH202 | General Physics II: Heat, Waves, Relativity | 5 |
| PH203 | Gen Physics III: Elect & Magnetism | 5 |
| PH211 | General Physics with Calculus I | 5 |
| PH212 | General Physics with Calculus II | 5 |
| PH213 | General Physics with Calculus III | 5 |

### Non-Laboratory Courses

| Code | Title | Credits |
|---|---|---|
| BI140 | Practical Ecology | 3 |
| BI149 | Introduction to Human Genetics | 3 |
| CHEM110 | Foundations of General, Organic, and Biochemistry | 4 |
| CS160 | Introduction To Computer Science | 4 |
| CS161 | Computer Science I | 4 |
| CS162 | Computer Science II | 4 |
| CS260 | Data Structures | 4 |
| ENV110 | Introduction Environmental Science | 3 |
| G221 | General Geology | 3 |
| G246 | Geological Hazards And Natural Catastrophes | 3 |
| MTH105Z | Math in Society | 4 |
| MTH111Z | Pre-Calculus | 4 |
| MTH112Z | Precalculus II: Trigonometry | 4 |
| MTH212 | Fundamentals of Elementary Mathematics II | 4 |
| MTH213 | Fundamentals of Elementary Mathematics III | 4 |
| MTH231 | Elements of Discrete Mathematics I | 4 |
| MTH232 | Elements of Discrete Mathematics II | 4 |
| MTH241 | Calculus for Bus and Soc Science I | 4 |
| MTH242 | Calculus for Bus and Soc Science II | 4 |
| MTH244 | Probability & Statistics II | 4 |
| MTH251Z | Differential Calculus | 4 |
| MTH252Z | Integral Calculus | 4 |
| MTH253Z | Calculus: Sequences and Series | 4 |
| MTH253 | | 4 |
| MTH254 | Vector Calculus I | 4 |
| MTH255 | Vector Calculus II | 4 |
| MTH256 | Differential Equations | 4 |
| MTH260 | Matrix Methods and Linear Algebra | 4 |
| MTH264 | Introduction to Matrix Algebra and Power Series | 4 |
| STAT243Z | Elementary Statistics I | 4 |

# ELECTIVES

- All courses must be completed with a grade of 'C' or better.
- Students may take any college-level course that would bring total credits to 45. Courses must be from the Introduction to Disciplines area (Arts & Letters, Social Science, or Science/Mathematics/Computer Science).
- A maximum of nine (9) credits of PE185 sport/activity courses may be applied to the OTM.
- Three (3) credit hours of PE185 sport/activity courses may be granted toward the OTM for completion of military basic training. A copy of the military transcript or DD-214 is required.
- Courses numbered 199/299 will qualify as elective credit only.

## SUPPORTIVE COURSES

*Note: The College has determined that the following supportive courses may be necessary to assist students to successfully complete their program. They count as electives only.*

| Code | Title | Credits |
|---|---|---|
| CIS120 | Concepts of Computing | 4 |
| CIS125W | Word Processing Applications Microsoft | 3 |
| HD100 | College Success and Survival | 3 |
| HD102 | College Nuts and Bolts | 1 |
| HD111 | Math Success | 2 |
| HD112 | Study Skills | 3 |

| | | |
|---|---|---|
| HD113 | Stop Test Anxiety Now | 1 |
| HD152 | Stress Management | 2 |
| HD208 | Career/Life Plan | 3 |

*A maximum of 45 credits is allowed for basic, developmental, or supportive courses under federal financial aid guidelines.*

# CULTURAL LITERACY

**Students are encouraged to complete at least one (1) course from any of the discipline studies that meets the statewide criteria for cultural literacy. The credits for such courses will only be counted one time toward the degree.**

| Code | Title | Credits |
|---|---|---|
| ANTH201 | Physical Anthropology and Evolution | 3 |
| ANTH202 | Introduction to Archaeology | 3 |
| ANTH203 | Language and Culture | 3 |
| ANTH221 | Intro to Cultural Anthropology | 3 |
| ANTH222 | Cultural Anthropology II | 3 |
| ANTH223 | Cultural Anthropology III | 3 |
| ANTH224 | Intro to Medical Anthropology | 3 |
| ANTH230 | Native North Americans: Oregon | 3 |
| ANTH231 | Native North Americans: PNW | 3 |
| ANTH232 | Native North Americans | 3 |
| COMM220 | Gender And Communication | 4 |
| ED258 | Multicultural Education | 3 |
| ENG107 | World Literature | 3 |
| ENG108 | World Literature | 3 |
| ENG109 | World Literature | 3 |
| GEOG105 | Cultural Geography | 3 |
| HDFS140 | Contemporary American Families | 3 |
| HUM204 | World Mythology & Religion | 3 |
| HUM205 | World Mythology & Religion | 3 |
| HUM206 | World Mythology & Religion | 3 |
| HST104 | History of the Middle East | 3 |
| MUS205 | Intro to Jazz History | 3 |
| MUS206 | Intro to History of Rock and Roll | 3 |
| PSY216 | Social Psychology | 3 |
| PSY231 | Human Sexuality | 3 |
| SOC208 | Sociology of Sport | 3 |
| SOC210 | Marriage and Family | 3 |
| SOC213 | Racial and Ethnic Relations | 3 |
| SOC218 | Sociology of Gender | 3 |

# PROGRAMS A-Z

# ACCOUNTING, ASSOCIATE OF APPLIED SCIENCE

The Associate of Applied Science (AAS) Accounting degree is designed to prepare students for entry-level positions in a variety of accounting-related positions in small businesses, governmental agencies and public accounting firms. The program offers students the opportunity to gain a combination of knowledge and practical hands-on experience in accounting. The program includes accounting and business-specific classes as well as a range of supporting courses designed to strengthen the students' self-assurance and leadership qualities.

Students completing the AAS Accounting will be prepared to maintain the accounting records of a business, analyze financial reports, or may be responsible for specific areas such as budgeting, accounts payable, payroll, or accounts receivable. This degree also prepares students for occupations such as full-charge bookkeeper, GS8 Accountant I, data entry clerk, financial staff accountant, cost accountant, and general office clerk.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 90 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Communicate effectively in oral and written forms in a business environment.
- Practice within the legal and ethical frameworks of a given business or industry.
- Participate in learning opportunities that contribute to personal and professional growth.
- Adequately identify and record business transactions.
- Verify accuracy of accounting data.
- Make basic decisions regarding accounting functions.
- Produce basic financial statements (e.g. balance sheets, income statements, cash flows).
- Prepare budgets, payroll, and other quarterly tax reports.
- Communicate effectively with tax and accounting professionals.
- Effectively and efficiently use current and emerging technologies and software to solve workplace problems.
- Interact effectively with coworkers in ways that contribute to the organization's goals and your advancement in business opportunities

Math and writing placement are unique to each student and are determined during the admissions and intake advising process.

Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| BA101Z | Introduction To Business | 4 |
| CIS120 | Concepts of Computing | 4 |
| COMM111Z | Public Speaking [4] | 4 |
| MTH82 | Business Mathematics [3] | 4 |
| | **Credits** | **16** |
| **Winter** | | |
| BA169Z | Data Analysis Using Microsoft Excel | 4 |
| BA205 | Solving Communication Problems With Technology | 4 |
| BA211Z | Principles of Financial Accounting | 4 |
| WR115 | Fundamentals of Report Writing [1] | 4 |
| | **Credits** | **16** |
| **Spring** | | |
| BA206 | Management Fundamentals | 4 |
| BA213Z | Principles of Managerial Accounting | 4 |
| BA217 | Accounting Process | 3 |
| BA240 | Fund Accounting | 3 |
| | **Credits** | **14** |
| **Second Year** | | |
| **Fall** | | |
| BA226Z | Introduction to Business Law | 4 |
| CIS125W | Word Processing Applications Microsoft | 3 |
| ECON201Z | Principles of Microeconomics | 4 |
| Specific Elective [5] | | 3 |
| | **Credits** | **14** |
| **Winter** | | |
| BA220 | Tax Accounting: Personal Income Tax | 3 |
| BA285 | Human Relations in Organizations [2] | 3 |
| BA222 | Financial Management | 3 |
| ECON202Z | Principles of Macroeconomics | 4 |
| Specific Elective [5] | | 3 |
| | **Credits** | **16** |
| **Spring** | | |
| BA177 | Payroll Records and Accounting | 3 |
| BA277<br>or PHL102 | Business Ethics<br>or Ethics | 3 |
| PE231 | Wellness for Life [6] | 3 |
| BA280 | CWE: Business Admin [7] | 4 |
| BA292 | Entrepreneurship Capstone | 3 |
| | **Credits** | **16** |
| | **Total Credits** | **92** |

[1] A higher writing may be substituted excluding WR241, WR242, WR243, WR250.

[2] BA285, BA120, PSY100, PSY201Z, PSY202Z will satisfy this requirement.

[3] MTH65, MTH95 or higher, excluding MTH211, may be substituted for MTH82.
[4] COMM100Z, COMM111Z, COMM218Z, COMM219 will satisfy this requirement.
[5] Specific Electives: Any AC, BA, CS/CIS, course not required for the degree; MTH65, MTH95, or higher; WR227Z.
[6] PE231, HE250, or (3) credits of PE185 sport/activity courses will satisfy this requirement.
[7] Call 541-888-7405 to schedule with Internship Coordinator one month prior to term.

# ACCOUNTING CLERK, CERTIFICATE OF COMPLETION

The Certificate of Completion Accounting Clerk is designed to prepare students to complete typical accounting clerk responsibilities such as journalizing, posting, assisting with tax, audit and other accounting procedures, preparing reports, communicating results and general office responsibilities.

Career opportunities include accounts payable clerk, accounts receivable clerk and data entry clerk for small and medium-sized service businesses.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 50 credit hours with a minimum cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be passed with a grade of 'C' or better. Twelve (12) credits must be completed at Southwestern before the Certificate of Completion is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Demonstrate an ability to organize workloads to meet reporting deadlines.
- Analyze and record transactions including general accounting transactions and payroll accounting.
- Prepare financial reports using select small business computerized accounting software and spreadsheet programs.
- Communicate effectively in a professional accounting workplace environment.
- Identify and appraise situations in professional accounting where the applications of ethical judgments are required.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **Fall** | | |
| CIS120 | Concepts of Computing | 4 |
| BA101Z | Introduction To Business | 4 |
| BA211Z | Principles of Financial Accounting | 4 |
| MTH82 | Business Mathematics [3] | 4 |
| | **Credits** | **16** |
| **Winter** | | |
| BA120 | Leadership Development [2] | 3 |
| BA169Z | Data Analysis Using Microsoft Excel | 4 |
| BA212 | Principles of Accounting II | 4 |
| BA222 | Financial Management | 3 |
| WR115 | Fundamentals of Report Writing [1] | 4 |
| | **Credits** | **18** |
| **Spring** | | |
| BA206 | Management Fundamentals | 4 |
| BA213Z | Principles of Managerial Accounting | 4 |
| BA217 | Accounting Process | 3 |
| BA240 | Fund Accounting | 3 |
| COMM219 | Small Group Discussion [4] | 4 |
| | **Credits** | **18** |
| | **Total Credits** | **52** |

[1] A higher writing may be substituted excluding WR241, WR242, WR243, WR250.
[2] BA120, BA285, PSY100, PSY201Z, PSY202Z will satisfy this requirement.
[3] MTH65, MTH95 or higher, excluding MTH211, may be substituted for MTH82.
[4] COMM100Z, COMM111Z, COMM218Z, COMM219 will satisfy this requirement.

# ENTRY-LEVEL BOOKKEEPING, CAREER PATHWAYS CERTIFICATE OF COMPLETION

The Career Pathway Certificate of Completion - Entry-level Bookkeeping provides students with a basic understanding of accounting principles and procedures, computers and the accounting software QuickBooks. Upon completion of this certificate, a student will be ready to take the first level of QuickBooks certification. The student will be able to successfully complete on-the job training for bookkeeping positions requiring basic bookkeeping responsibilities such as journalizing, posting, assisting with taxes, audit, and other a accounting procedures, preparing reports, communicating results and general office responsibilities.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 14 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Six (6) credits must be completed at Southwestern before the Career Pathway Certificate of Completion is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

# PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Analyze and record transactions including general accounting transactions and payroll accounting.
- Prepare financial reports using select small business computerized accounting software and spreadsheet programs.
- Communicate effectively in a professional accounting workplace environment.

# PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| BA217 | Accounting Process [1] | 3 |
| BA211Z | Principles of Financial Accounting | 4 |
| | **Credits** | **7** |
| **Winter** | | |
| BA169Z | Data Analysis Using Microsoft Excel | 4 |
| BA280 | CWE: Business Admin [2] | 3 |
| | **Credits** | **7** |
| | **Total Credits** | **14** |

[1] Must be taken with corequisite BA211Z.
[2] Requires instructor consent.

# AGROECOLOGY, ASSOCIATE OF APPLIED SCIENCE

Agroecology integrates ecological, social, economic, and agricultural principles into research, education, and the practices of our food system and land management. This two-year program provides a broad understanding of the various aspects of ecology and agriculture, with the health and well-being of local populations and the workforce. Courses may include topics that discuss soil nutrient and building, orchard maintenance, vegetable production, native plant propagation, agroforestry, and mushroom cultivation. In addition to the agriculture core courses, there are pathways for business courses to give students the business framework to make their ideas into a successful and sustainable business. Students will have hands-on internship experiences to develop and use the skills that are essential to be a successful vegetable farmer, nursery manager, landscaper, watershed technician, or an entrepreneur.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 90 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

- Apply scientific concepts and practices within the disciplines of ecology, soil science, and plant biology to methods of sustainable farming and ecological land management.
- Employ agroecology principles to support ecosystems and communities.
- Understand the role of the existing biodiversity and design systems to support and enhance and improve conditions.
- Examine principles and examples of successful and viable farms or business and marketing plans.
- Review history, ethics, and trends in agriculture systems.
- Develop hands-on ecological food production and land management skills and assess techniques through field-based instruction and internships.
- Communicate effectively with others, both verbally and in writing.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

| Course | Title | Credits |
|---|---|---|
| **Prerequisites** | | |
| Completion of MTH20 or placement into MTH82 | | |
| Completion of WR90R or placement into WR115 | | |
| | **Credits** | **0** |

| | | |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| AG101 | Introduction To Agroecology | 5 |
| AG120 | Gardening The South Coast | 1 |
| ENV235 | Introduction to Soil Science | 4 |
| Elective [1] | | 3 |
| Elective [1] | | 2 |
| | **Credits** | **15** |
| **Winter** | | |
| BA285 | Human Relations in Organizations [3] | 3 |
| COMM111Z | Public Speaking [2] | 4 |
| WR115 | Fundamentals of Report Writing [4] | 4 |
| PE231 | Wellness for Life [5] | 3 |
| Elective [6] | | 2 |
| | **Credits** | **16** |
| **Spring** | | |
| AG102 | Agroecology II | 5 |
| AG150 | Applied Plant Biology | 3 |
| AG180 | Agroecology Internship [7] | 3 |
| BI140 | Practical Ecology | 3 |
| | **Credits** | **14** |
| **Second Year** | | |
| **Fall** | | |
| AG201 | Horticulture Science | 4 |
| BA150 | Introduction to Entrepreneurship | 3 |
| MTH82 | Business Mathematics [8] | 4 |
| Elective [6] | | 2 |
| | **Credits** | **13** |
| **Winter** | | |
| AG202 | Ecological Pest Management | 4 |
| ANTH231 | Native North Americans: PNW [9] | 3 |
| NR210 | Restoration And Fire Ecology | 3 |
| Elective [6] | | 2 |
| | **Credits** | **12** |
| **Spring** | | |
| AG203 | Plant Ecology Of The Pacific Northwest | 4 |
| AG277 | Agroecology Capstone | 2 |
| AG280 | Cooperative Work Experience- Agroecology [7] | 3 |
| Elective [6] | | 3 |
| | **Credits** | **12** |
| **Summer** | | |
| AG103 | Agroecology III | 5 |
| Elective [6] | | 3 |
| | **Credits** | **8** |
| | **Total Credits** | **90** |

1. Recommended NR211 and BA150 electives.
2. COMM100Z, COMM218Z, or COMM219 may be substituted for COMM111Z.
3. BA110, BA120, BA285, PSY100, PSY100Z or higher will satisfy this requirement.
4. May substitute for WR121Z.

[5] PE231, HE250, or three (3) credits of PE185 sport/activity courses will satisfy this requirement.
[6] Electives to reach 90 credits. Recommended Electives: Any AG, ENV, NR, GS, G or F course or (FS131, CRT115, GEOG265, WLD100, SPAN101, CIS125S, or FN225). See an advisor for specific elective recommendations.
[7] Internship: Call 541-888-7405 to schedule with the Internship Coordinator one month prior to term.
[8] MTH65 higher excluding MTH211.
[9] May substitute for ANTH 221, 222 ,223, or 202, 230, 232.

# AGROECOLOGY ONE YEAR CERTIFICATE

Students can earn a Certificate of Completion in Agroecology in one year. Students will learn the principles and practices to work on a farm, a nursery, or for a landscaping company.

Agroecology is the application of ecological concepts and principles to the design and management of sustainable agroecosystems. This certificate offers comprehensive courses that will help students develop the skills and acquire knowledge in plant production and agricultural systems through hands-on practices, classroom instructions, and an internship experience. It will provide students who are interested in agricultural production with fundamental skills and experiences for working in the wide field of agriculture. Students who want to continue will have an opportunity to pursue an Agroecology AAS degree, which builds upon this program.

Certificate Plan:

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| AG101 | Introduction To Agroecology | 5 |
| AG120 | Gardening The South Coast | 1 |
| MTH82 | Business Mathematics [1] | 4 |
| ENV235 | Introduction to Soil Science | 4 |
| Elective [2] | | 3 |
| | **Credits** | **17** |
| **Winter** | | |
| BA285 | Human Relations in Organizations [4] | 3 |
| PE231 | Wellness for Life [5] | 3 |
| WR115 | Fundamentals of Report Writing [3] | 4 |
| Elective [2] | | 2 |
| | **Credits** | **12** |
| **Spring** | | |
| AG102 | Agroecology II | 5 |
| AG150 | Applied Plant Biology | 3 |
| AG180 | Agroecology Internship [6] | 3 |
| BI140 or BI103 | Practical Ecology or General Biology | 3 |
| | **Credits** | **14** |
| | **Total Credits** | **43** |

[1] MTH65 higher excluding MTH211.
[2] Recommended Electives: Any AG, ENV, NR, GS, G or F course or (FS131, CRT115, GEOG265, WLD100, SPAN101, CIS125S, or FN225). See an advisor for specific elective recommendations.
[3] May substitute for WR121Z
[4] BA110, BA120, BA285, PSY100Z or higher will satisfy this requirement
[5] PE231, HE250, or three (3) credits of PE185 sport/activity courses will satisfy this requirement.
[6] Internship: Call 541-888-7405 to schedule with the Internship Coordinator one month prior to term.

# ASSOCIATE OF ARTS OREGON TRANSFER (AAOT)

The Associate of Arts/Oregon Transfer (AAOT) degree is a program of study that community college students can follow to fulfill all their lower division general education requirements for a bachelor's degree at Oregon public universities. Completion of the AAOT degree can lead to junior standing, for registration purposes, for any student admitted to a public university in Oregon (University of Oregon, Oregon State University, Portland State University, Western Oregon University, Southern Oregon University, Oregon Institute of Technology and Eastern Oregon University).

The AAOT does not necessarily meet specific institutional, departmental, or major requirements with regard to courses or grade point average. Students may transfer between 90 and 124 community college credits to four-year Oregon public institutions. Students should plan carefully with the four-year institution to which they plan to transfer in order to meet individual institutional requirements. Students considering transfer to private and out-of-state institutions will find the AAOT to be excellent preparation for upper division study. Please contact your advisor for specific transfer requirements.

Upon enrolling at Southwestern, students need to be ready for college-level mathematics, writing and science in order to complete the AAOT in two years. If students lack the necessary skills, Southwestern offers excellent developmental courses and tutorial assistance to help them get on track quickly.

The AAOT degree is designed for students planning to transfer into a bachelor's degree program at an Oregon public university. These universities accept the AAOT as a "block transfer," enabling a student to enter with junior standing having all of the transfer school's lower division general education requirements met. The AAOT offers students the flexibility to choose courses that interest them while fulfilling requirements at their transfer schools. Beginning in the 2023-2024 academic year, the state of Oregon has implemented Common Course Numbering(Z), which is a series of classes guaranteed to transfer to other public institutions within the state. They are the following courses: MTH105Z, MTH111Z, MTH112Z, COMM100Z, COMM111Z, COMM218Z, STAT243Z,WR121Z , WR122Z, and WR227Z.

Several Oregon private institutions and a limited number of out-of-state institutions also accept the AAOT. These include Pacific University, Warner Pacific College, George Fox University in the Portland area, as well as Western Baptist College, BYU - Hawaii, Hawaii Pacific University,

Boise State University, Seattle Pacific University, and Washington State University.

It is important to note the AAOT may not be the best degree option for all majors. Students should consult advisors in their major areas for educational planning related to required courses in their majors.

# GRADUATION REQUIREMENTS

Students must complete a minimum of 90 credit hours, distributed across general education categories listed below. All courses must be completed with a grade of 'C' or better. Students must have a cumulative GPA of 2.0 at the time the AAOT is awarded. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

Students must successfully complete the following courses from the list of approved general education courses for the AAOT degree and a number of elective credits.

Students may take any college-level course that would bring total credits to 90 quarter hours, including up to 12 credits of college-designated career and technical education (CTE) courses. Note: Some courses are considered career technical courses and have limitations within this degree, they are designated with "CTE" in the Course Description area of this catalog. A maximum of nine (9) credits of PE185 sport/activity courses may be applied to the AAOT degree.

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

Students must complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

# FOUNDATIONAL REQUIREMENTS

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

## WRITING

**Eight (8) credits** of writing are required, so choose **two (2) courses** from below. Information Literacy will be included in the writing requirement**:**

| Code | Title | Credits |
|---|---|---|
| WR121Z | Composition I | 4 |
| WR122Z | Composition II | 4 |
| or WR227Z | Technical Writing | |

## MATHEMATICS

**One (1) course from:**

Math course may be MTH105 or higher, excluding MTH211.

| Code | Title | Credits |
|---|---|---|
| MTH105Z | Math in Society | 4 |

## COMMUNICATION

**One (1) course from:**

| Code | Title | Credits |
|---|---|---|
| COMM100Z | Introduction to Communication | 4 |
| COMM111Z | Public Speaking | 4 |
| COMM218Z | Interpersonal Communication | 4 |
| COMM219 | Small Group Discussion | 4 |

## HEALTH, WELLNESS, AND FITNESS

**Three (3) credits** of PE185 sport/activity courses or HE250 Personal Health or PE231 Wellness for Life.

# DISCIPLINE STUDIES REQUIREMENTS

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

## ARTS AND LETTERS

**Three (3) courses chosen from two (2) or more disciplines:**

| Code | Title | Credits |
|---|---|---|
| ART115 | Basic Design I Intro to Elements of Art and Principles of Design | 4 |
| ART116 | Basic Design II, Color Theory | 4 |
| ART117 | Basic Design III, Intro to 3D Desgn | 4 |
| ART131 | Introduction to Drawing I | 3 |
| ART132 | Introduction to Drawing II | 3 |
| ART133 | Introduction to Drawing III | 3 |
| ART191 | Beginning Sculpture | 3 |
| ART192 | Beginning Sculpture | 3 |
| ART204 | History of Western Art: Introduction to Art History | 3 |
| ART205 | History of Western Art: Introduction to Art History | 3 |
| ART206 | History of Western Art: Introduction to Art History | 3 |
| ART244 | Bronze Casting | 3 |
| ART253 | Ceramics I | 3 |
| ART256 | Ceramics II | 3 |
| ART281 | Painting I Beginning | 3 |
| ART282 | Painting II Beginning | 3 |
| ART283 | Painting III Beginning | 3 |
| ART284 | Painting I Intermediate | 3 |
| ART285 | Painting II Intermediate | 3 |
| ART286 | Painting III Intermediate | 3 |
| ASL201 | 2nd Yr American Sign Language I | 4 |
| ASL202 | 2nd Yr American Sign Language II | 4 |
| ASL203 | 2nd Yr American Sign Language III | 4 |
| COMM100Z | Introduction to Communication | 4 |
| COMM111Z | Public Speaking | 4 |
| COMM218Z | Interpersonal Communication | 4 |
| COMM219 | Small Group Discussion | 4 |
| COMM220 | Gender And Communication | 4 |
| ENG104Z | Introduction To Fiction | 4 |
| ENG105Z | Introduction To Drama | 4 |
| ENG106Z | Introduction To Poetry | 4 |
| ENG107 | World Literature | 3 |
| ENG108 | World Literature | 3 |
| ENG109 | World Literature | 3 |
| ENG201 | Shakespeare | 3 |
| ENG204 | Survey of English Literature | 3 |
| ENG205 | Survey of English Literature | 3 |

| | | |
|---|---|---|
| ENG206 | Survey of English Literature | 3 |
| ENG253 | Survey of American Literature | 3 |
| ENG254 | Survey of American Literature | 3 |
| ENG255 | Survey of American Literature | 3 |
| HUM204 | World Mythology & Religion | 3 |
| HUM205 | World Mythology & Religion | 3 |
| HUM206 | World Mythology & Religion | 3 |
| MUS101 | Music Fundamentals | 3 |
| MUS111 | Music Theory I | 3 |
| MUS112 | Music Theory II | 3 |
| MUS113 | Music Theory III | 3 |
| MUS201 | Intro to Music and its Literature | 3 |
| MUS202 | Intro to Music and its Literature | 3 |
| MUS203 | Intro to Music and its Literature | 3 |
| MUS205 | Intro to Jazz History | 3 |
| MUS206 | Intro to History of Rock and Roll | 3 |
| MUS211 | Advanced Music Theory I | 3 |
| MUS212 | Advanced Music Theory II | 3 |
| MUS213 | Advanced Music Theory III | 3 |
| PHL101 | Introduction to Philosophy: Philosophical Problems | 3 |
| PHL102 | Ethics | 3 |
| PHL103 | Intro to Logic and Critical Thnkg | 3 |
| SPAN201 | Second Year Spanish | 4 |
| SPAN202 | Second Year Spanish | 4 |
| SPAN203 | Second Year Spanish | 4 |
| WR241 | Imaginative Creative Writing Fiction | 3 |
| WR242 | Imaginative Writing Poetry | 3 |
| WR243 | Imaginative Creative Writing - Play | 3 |
| TA141 | Acting I | 3 |
| TA142 | Acting II | 3 |
| TA143 | Acting Iii | 3 |
| TA153 | Rehearsal/Performnc | 3 |

## SOCIAL SCIENCES

**Four (4) courses chosen from two (2) or more disciplines:**

| Code | Title | Credits |
|---|---|---|
| ANTH201 | Physical Anthropology and Evolution | 3 |
| ANTH202 | Introduction to Archaeology | 3 |
| ANTH203 | Language and Culture | 3 |
| ANTH221 | Intro to Cultural Anthropology | 3 |
| ANTH222 | Cultural Anthropology II | 3 |
| ANTH223 | Cultural Anthropology III | 3 |
| ANTH224 | Intro to Medical Anthropology | 3 |
| ANTH230 | Native North Americans: Oregon | 3 |
| ANTH231 | Native North Americans: PNW | 3 |
| ANTH232 | Native North Americans | 3 |
| CJ101 | Intro to Criminology | 4 |
| ECON201Z | Principles of Microeconomics | 4 |
| ECON202Z | Principles of Macroeconomics | 4 |
| ED169 | Overview of Student Special Needs | 3 |
| ED258 | Multicultural Education | 3 |
| GEOG105 | Cultural Geography | 3 |
| HDFS140 | Contemporary American Families | 3 |
| HDFS222 | Understanding Families: Supporting Diversity Disability and Risk | 3 |
| HDFS229 | Child Development PreK - Adolescent | 3 |
| HDFS247 | Child Development 0-8 | 3 |
| HST101 | History of Western Civilization | 3 |
| HST102 | History of Western Civilization | 3 |
| HST103 | History of Western Civilization | 3 |
| HST104 | History of the Middle East | 3 |
| HST195 | History of the Vietnam War | 3 |
| HST201 | History of the United States | 3 |
| HST202 | History of the United States | 3 |
| HST203 | History of the United States | 3 |
| HST240 | Hist of Oregon and the South Coast | 3 |
| PS201 | American Government: Political Institutions | 3 |
| PS202 | American Government: Policy Issues | 3 |
| PS203 | Local Politics and Government | 3 |
| PS205 | International Relations: US Foreign Policy in the 20th Century | 3 |
| PSY100 | Introduction to Psychology | 4 |
| PSY201Z | Introduction to Psychology I | 4 |
| PSY202Z | Introduction to Psychology II | 4 |
| PSY216 | Social Psychology | 3 |
| PSY228 | Introduction to Social Science Research | 3 |
| PSY231 | Human Sexuality | 3 |
| PSY237 | Life Span Development | 3 |
| PSY239 | Introduction to Abnormal Psychology | 3 |
| PSY243 | Drugs and Behavior | 3 |
| SOC204Z | Introduction to Sociology | 4 |
| SOC205Z | Social Change and Institutions | 4 |
| SOC206Z | Social Problems | 4 |
| SOC208 | Sociology of Sport | 3 |
| SOC210 | Marriage and Family | 3 |
| SOC213 | Racial and Ethnic Relations | 3 |
| SOC218 | Sociology of Gender | 3 |

## SCIENCE/MATHEMATICS/COMPUTER SCIENCE

**Four (4) courses from two (2) or more disciplines including at least three (3) laboratory courses in biological and/or physical science.**

### Laboratory Courses

| Code | Title | Credits |
|---|---|---|
| BI101 | General Biology | 4 |
| BI102 | General Biology | 4 |
| BI103 | General Biology | 4 |
| BI142 | Habitats: Marine Biology | 4 |
| BI221Z | Principles of Biology: Cells | 5 |
| BI222Z | Principles of Biology: Organisms | 5 |
| BI223Z | Principles of Biology: Ecolo/Evolut | 5 |
| BI231 | Human Anatomy and Physiology I | 4 |

| | | |
|---|---|---|
| BI232 | Human Anatomy and Physiology II | 4 |
| BI233 | Human Anatomy and Physiology III | 4 |
| BI234 | Microbiology | 4 |
| CHEM221Z | General Chemistry I (must also take CHEM227Z) | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |
| CHEM222Z | General Chemistry II (must also take CHEM228Z) | 4 |
| CHEM228Z | General Chemistry II Laboratory | 1 |
| CHEM223Z | General Chemistry III (must also take CHEM229Z) | 4 |
| CHEM229Z | General Chemistry III Laboratory | 1 |
| CHEM245 | Organic Chemistry I | 4 |
| CHEM246 | Organic Chemistry II | 4 |
| CHEM247 | Organic Chemistry III | 4 |
| ENV235 | Introduction to Soil Science | 4 |
| G201 | Physical Geology I | 4 |
| G202 | Physical Geology II | 4 |
| G203 | Historical Geology | 4 |
| GS104 | Physical Science | 4 |
| GS105 | Physical Science | 4 |
| GS106 | Introduction to Earth Science | 4 |
| GS107 | Astronomy | 4 |
| GS108 | Oceanography | 4 |
| NR260 | Watershed Processes | 4 |
| PH201 | General Physics I: Mechanics | 5 |
| PH202 | General Physics II: Heat, Waves, Relativity | 5 |
| PH203 | Gen Physics III: Elect & Magnetism | 5 |
| PH211 | General Physics with Calculus I | 5 |
| PH212 | General Physics with Calculus II | 5 |
| PH213 | General Physics with Calculus III | 5 |

### Non-Laboratory Courses

| Code | Title | Credits |
|---|---|---|
| BI140 | Practical Ecology | 3 |
| BI149 | Introduction to Human Genetics | 3 |
| CHEM110 | Foundations of General, Organic, and Biochemistry | 4 |
| CS160 | Introduction To Computer Science | 4 |
| CS161 | Computer Science I | 4 |
| CS162 | Computer Science II | 4 |
| CS260 | Data Structures | 4 |
| ENV110 | Introduction Environmental Science | 3 |
| G221 | General Geology | 3 |
| G246 | Geological Hazards And Natural Catastrophes | 3 |
| MTH105Z | Math in Society | 4 |
| MTH111Z | Pre-Calculus | 4 |
| MTH112Z | Precalculus II: Trigonometry | 4 |
| MTH212 | Fundamentals of Elementary Mathematics II | 4 |
| MTH213 | Fundamentals of Elementary Mathematics III | 4 |
| MTH231 | Elements of Discrete Mathematics I | 4 |
| MTH232 | Elements of Discrete Mathematics II | 4 |
| MTH241 | Calculus for Bus and Soc Science I | 4 |
| MTH242 | Calculus for Bus and Soc Science II | 4 |
| STAT243Z | Elementary Statistics I | 4 |
| MTH244 | Probability & Statistics II | 4 |
| MTH251Z | Differential Calculus | 4 |
| MTH252Z | Integral Calculus | 4 |
| MTH253Z | Calculus: Sequences and Series | 4 |
| MTH254 | Vector Calculus I | 4 |
| MTH255 | Vector Calculus II | 4 |
| MTH256 | Differential Equations | 4 |
| MTH260 | Matrix Methods and Linear Algebra | 4 |
| MTH264 | Introduction to Matrix Algebra and Power Series | 4 |

## CULTURAL LITERACY

**Students are required to complete at least one (1) course from any of the above discipline studies that meets the statewide criteria for cultural literacy. SWOCC offers these courses that satisfy the Cultural Literacy requirement.**

| Code | Title | Credits |
|---|---|---|
| ANTH201 | Physical Anthropology and Evolution | 3 |
| ANTH202 | Introduction to Archaeology | 3 |
| ANTH203 | Language and Culture | 3 |
| ANTH221 | Intro to Cultural Anthropology | 3 |
| ANTH222 | Cultural Anthropology II | 3 |
| ANTH223 | Cultural Anthropology III | 3 |
| ANTH224 | Intro to Medical Anthropology | 3 |
| ANTH230 | Native North Americans: Oregon | 3 |
| ANTH231 | Native North Americans: PNW | 3 |
| ANTH232 | Native North Americans | 3 |
| COMM220 | Gender And Communication | 4 |
| ED258 | Multicultural Education | 3 |
| ENG107 | World Literature | 3 |
| ENG108 | World Literature | 3 |
| ENG109 | World Literature | 3 |
| GEOG105 | Cultural Geography | 3 |
| HDFS140 | Contemporary American Families | 3 |
| HUM204 | World Mythology & Religion | 3 |
| HUM205 | World Mythology & Religion | 3 |
| HUM206 | World Mythology & Religion | 3 |
| HST104 | History of the Middle East | 3 |
| MUS205 | Intro to Jazz History | 3 |
| MUS206 | Intro to History of Rock and Roll | 3 |
| PSY216 | Social Psychology | 3 |
| PSY231 | Human Sexuality | 3 |
| SOC208 | Sociology of Sport | 3 |
| SOC210 | Marriage and Family | 3 |
| SOC213 | Racial and Ethnic Relations | 3 |
| SOC218 | Sociology of Gender | 3 |

## ELECTIVES

- Students may take any college-level course that would bring total credits to 90 quarter hours including up to 12 credits of college designated Career and Technical Education courses.
- All courses must be completed with a grade of 'C' or better.

- A maximum of nine (9) credits of any PE185 sport/activity courses may be applied to the AAOT degree.
- Three (3) credits of PE185 Sport/Activity may be granted toward the AAOT degree for completion of military basic training. A copy of the military transcript or DD-214 is required.
- Courses numbered 199/299 will qualify as elective credit only.

## SUPPORTIVE COURSES

*Note: The college has determined that the following supportive courses may be necessary to assist students to successfully complete their program; they count as electives only.*

| Code | Title | Credits |
|---|---|---|
| CIS120 | Concepts of Computing | 4 |
| CIS125W | Word Processing Applications Microsoft | 3 |
| HD100 | College Success and Survival | 3 |
| HD102 | College Nuts and Bolts | 1 |
| HD111 | Math Success | 2 |
| HD112 | Study Skills | 3 |
| HD113 | Stop Test Anxiety Now | 1 |
| HD152 | Stress Management | 2 |
| HD208 | Career/Life Plan | 3 |

*A maximum of 45 credits is allowed for basic, developmental, or supportive courses under federal financial aid guidelines.*

In addition to Institutional Learning Outcomes, standards have been established for Student Learning Outcomes in General Education Courses in the following categories: Arts and Letters, Cultural Literacy, Mathematics, Science or Computer Science, Social Science, Speech and Oral Communication, Writing, and Information Literacy. Coursework in each of these areas supports student achievement of these outcomes. SWOCC evaluates student achievement of course learning outcomes on a regular basis, and this information is used for continuous improvement in instruction and student services.

**Arts & Letters**

*Outcomes*

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

- Interpret and engage in the Arts & Letters, making use of the creative process to enrich the quality of life; and
- Critically analyze values and ethics within a range of human experience and expression to engage more fully in local and global issues.
- *"Arts & Letters" refers to works of art, whether written, crafted, designed, or performed and documents of historical or cultural significance.

**Cultural Literacy**

Cultural Literacy outcomes will be included in courses that meet the outcomes and criteria of an AAOT Discipline Studies requirement.

*Outcomes*

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

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

**Mathematics**

*Outcomes*

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

- Use appropriate mathematics to solve problems: Recognize which mathematical concepts are applicable to a scenario, apply appropriate mathematics and technology in its analysis, and then accurately interpret, validate, and communicate the results.
- Use logical reasoning to make connections between various mathematical concepts and representations.

**Science or Computer Science**

*Outcomes*

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

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

**Social Science**

Outcomes

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

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

**Speech/Oral Communication**

*Outcomes*

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

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

**Writing**

*Outcomes*

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

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

**Information Literacy**

Information Literacy outcomes and criteria will be embedded in the Writing Foundational Requirements courses.

*Outcomes*

As a result of taking General Education Writing courses infused with Information Literacy, a student who successfully completes should be able to:

- 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

# ASSOCIATE OF SCIENCE (AS)

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 institution. The degree requirements allow students more flexibility in course selection, allowing them to focus on their discipline requirements.

*NOTE: Completion of this degree does not guarantee that all lower division general education requirements have been met for a bachelor's degree (i.e., this is not a block transfer degree as is the AAOT). In selecting courses for this degree, students are highly encouraged to consult the specific transfer curriculum pages in this catalog, an advisor, and the institution to which they intend to transfer in order to determine if it is an appropriate choice.*

## GRADUATION REQUIREMENTS

Students must complete a minimum of 90 credit hours of specified courses with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

Complete elective courses to reach a total of 90 credits. The courses must be numbered 100 or above. Career technical courses may only be applied to the AS degree in the following curricula which are governed by formal transfer agreements with four-year universities and are part of a current, formal transfer agreement with a four-year institution. Career technical courses offered at Southwestern are designated by "CTE" in the course description section of this catalog. All Honors courses may substitute for their equivalent requirements.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## GENERAL EDUCATION REQUIREMENTS

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

### WRITING

**Eight (8) credits** of writing are required, so choose **two (2) courses** from below. Information Literacy will be included in the writing requirement**:**

| Code | Title | Credits |
|---|---|---|
| WR121Z | Composition I | 4 |
| WR122Z | Composition II | 4 |
| or WR227Z | Technical Writing | |

### COMMUNICATION

**One (1) course taken from:**

| Code | Title | Credits |
|---|---|---|
| COMM100Z | Introduction to Communication | 4 |
| COMM111Z | Public Speaking | 4 |
| COMM218Z | Interpersonal Communication | 4 |
| COMM219 | Small Group Discussion | 4 |

### MATHEMATICS

**Select four (4) credit hours of college-level mathematics** from MTH105 or higher, excluding MTH211.

### HEALTH, WELLNESS, AND FITNESS

**Three (3) credits of health/PE:** Three (3) credits of PE185 sport/activity courses or HE250 or PE231.

## DISTRIBUTION REQUIREMENTS

Complete six (6) credits from each of the following Related Area of Instruction Requirements. All courses must be completed with a grade of 'C' or better.

### ARTS AND LETTERS

**Six (6) credit hours from:**

*Only second year foreign language may be used to fulfill the Arts and Letters requirement.*

| Code | Title | Credits |
|---|---|---|
| ART115 | Basic Design I Intro to Elements of Art and Principles of Design | 4 |
| ART116 | Basic Design II, Color Theory | 4 |
| ART117 | Basic Design III, Intro to 3D Desgn | 4 |
| ART131 | Introduction to Drawing I | 3 |
| ART132 | Introduction to Drawing II | 3 |
| ART133 | Introduction to Drawing III | 3 |
| ART191 | Beginning Sculpture | 3 |
| ART192 | Beginning Sculpture | 3 |
| ART204 | History of Western Art: Introduction to Art History | 3 |
| ART205 | History of Western Art: Introduction to Art History | 3 |
| ART206 | History of Western Art: Introduction to Art History | 3 |
| ART244 | Bronze Casting | 3 |
| ART253 | Ceramics I | 3 |
| ART256 | Ceramics II | 3 |
| ART281 | Painting I Beginning | 3 |
| ART282 | Painting II Beginning | 3 |
| ART283 | Painting III Beginning | 3 |
| ART284 | Painting I Intermediate | 3 |
| ART285 | Painting II Intermediate | 3 |
| ART286 | Painting III Intermediate | 3 |
| ASL201 | 2nd Yr American Sign Language I | 4 |
| ASL202 | 2nd Yr American Sign Language II | 4 |
| ASL203 | 2nd Yr American Sign Language III | 4 |
| COMM100Z | Introduction to Communication | 4 |
| COMM111Z | Public Speaking | 4 |
| COMM218Z | Interpersonal Communication | 4 |
| COMM219 | Small Group Discussion | 4 |
| COMM220 | Gender And Communication | 4 |
| ENG104Z | Introduction To Fiction | 4 |
| ENG105Z | Introduction To Drama | 4 |
| ENG106Z | Introduction To Poetry | 4 |
| ENG107 | World Literature | 3 |

| | | |
|---|---|---|
| ENG108 | World Literature | 3 |
| ENG109 | World Literature | 3 |
| ENG201 | Shakespeare | 3 |
| ENG204 | Survey of English Literature | 3 |
| ENG205 | Survey of English Literature | 3 |
| ENG206 | Survey of English Literature | 3 |
| ENG253 | Survey of American Literature | 3 |
| ENG254 | Survey of American Literature | 3 |
| ENG255 | Survey of American Literature | 3 |
| HUM204 | World Mythology & Religion | 3 |
| HUM205 | World Mythology & Religion | 3 |
| HUM206 | World Mythology & Religion | 3 |
| MUS101 | Music Fundamentals | 3 |
| MUS111 | Music Theory I | 3 |
| MUS112 | Music Theory II | 3 |
| MUS113 | Music Theory III | 3 |
| MUS201 | Intro to Music and its Literature | 3 |
| MUS202 | Intro to Music and its Literature | 3 |
| MUS203 | Intro to Music and its Literature | 3 |
| MUS205 | Intro to Jazz History | 3 |
| MUS206 | Intro to History of Rock and Roll | 3 |
| MUS211 | Advanced Music Theory I | 3 |
| MUS212 | Advanced Music Theory II | 3 |
| MUS213 | Advanced Music Theory III | 3 |
| PHL101 | Introduction to Philosophy: Philosophical Problems | 3 |
| PHL102 | Ethics | 3 |
| PHL103 | Intro to Logic and Critical Thnkg | 3 |
| SPAN201 | Second Year Spanish | 4 |
| SPAN202 | Second Year Spanish | 4 |
| SPAN203 | Second Year Spanish | 4 |
| WR241 | Imaginative Creative Writing Fiction | 3 |
| WR242 | Imaginative Writing Poetry | 3 |
| WR243 | Imaginative Creative Writing - Play | 3 |
| TA141 | Acting I | 3 |
| TA142 | Acting II | 3 |
| TA143 | Acting Iii | 3 |
| TA153 | Rehearsal/Performnc | 3 |

## SOCIAL SCIENCES

**Six (6) credit hours from:**

| Code | Title | Credits |
|---|---|---|
| ANTH201 | Physical Anthropology and Evolution | 3 |
| ANTH202 | Introduction to Archaeology | 3 |
| ANTH203 | Language and Culture | 3 |
| ANTH221 | Intro to Cultural Anthropology | 3 |
| ANTH222 | Cultural Anthropology II | 3 |
| ANTH223 | Cultural Anthropology III | 3 |
| ANTH224 | Intro to Medical Anthropology | 3 |
| ANTH230 | Native North Americans: Oregon | 3 |
| ANTH231 | Native North Americans: PNW | 3 |
| ANTH232 | Native North Americans | 3 |
| CJ101 | Intro to Criminology | 4 |
| ECON201Z | Principles of Microeconomics | 4 |
| ECON202Z | Principles of Macroeconomics | 4 |
| ED169 | Overview of Student Special Needs | 3 |
| ED258 | Multicultural Education | 3 |
| GEOG105 | Cultural Geography | 3 |
| HDFS140 | Contemporary American Families | 3 |
| HDFS222 | Understanding Families: Supporting Diversity Disability and Risk | 3 |
| HDFS229 | Child Development PreK - Adolescent | 3 |
| HDFS247 | Child Development 0-8 | 3 |
| HST101 | History of Western Civilization | 3 |
| HST102 | History of Western Civilization | 3 |
| HST103 | History of Western Civilization | 3 |
| HST104 | History of the Middle East | 3 |
| HST195 | History of the Vietnam War | 3 |
| HST201 | History of the United States | 3 |
| HST202 | History of the United States | 3 |
| HST203 | History of the United States | 3 |
| HST240 | Hist of Oregon and the South Coast | 3 |
| PS201 | American Government: Political Institutions | 3 |
| PS202 | American Government: Policy Issues | 3 |
| PS203 | Local Politics and Government | 3 |
| PS205 | International Relations: US Foreign Policy in the 20th Century | 3 |
| PSY100 | Introduction to Psychology | 4 |
| PSY201Z | Introduction to Psychology I | 4 |
| PSY202Z | Introduction to Psychology II | 4 |
| PSY216 | Social Psychology | 3 |
| PSY228 | Introduction to Social Science Research | 3 |
| PSY231 | Human Sexuality | 3 |
| PSY237 | Life Span Development | 3 |
| PSY239 | Introduction to Abnormal Psychology | 3 |
| SOC204Z | Introduction to Sociology | 4 |
| SOC205Z | Social Change and Institutions | 4 |
| SOC206Z | Social Problems | 4 |
| SOC208 | Sociology of Sport | 3 |
| SOC210 | Marriage and Family | 3 |
| SOC213 | Racial and Ethnic Relations | 3 |
| SOC218 | Sociology of Gender | 3 |

## SCIENCE/MATHEMATICS/COMPUTER SCIENCE

**Six (6) credit hours from:**

**Laboratory Courses**

| Code | Title | Credits |
|---|---|---|
| BI101 | General Biology | 4 |
| BI102 | General Biology | 4 |
| BI103 | General Biology | 4 |
| BI142 | Habitats: Marine Biology | 4 |
| BI221Z | Principles of Biology: Cells | 5 |

| | | |
|---|---|---|
| BI222Z | Principles of Biology: Organisms | 5 |
| BI223Z | Principles of Biology: Ecolo/Evolut | 5 |
| BI231 | Human Anatomy and Physiology I | 4 |
| BI232 | Human Anatomy and Physiology II | 4 |
| BI233 | Human Anatomy and Physiology III | 4 |
| BI234 | Microbiology | 4 |
| CHEM221Z | General Chemistry I (must also take CHEM227Z) | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |
| CHEM222Z | General Chemistry II (must also take CHEM228Z) | 4 |
| CHEM228Z | General Chemistry II Laboratory | 1 |
| CHEM223Z | General Chemistry III (must also take CHEM229Z) | 4 |
| CHEM229Z | General Chemistry III Laboratory | 1 |
| ENV235 | Introduction to Soil Science | 4 |
| G201 | Physical Geology I | 4 |
| G202 | Physical Geology II | 4 |
| G203 | Historical Geology | 4 |
| GS104 | Physical Science | 4 |
| GS105 | Physical Science | 4 |
| GS106 | Introduction to Earth Science | 4 |
| GS107 | Astronomy | 4 |
| GS108 | Oceanography | 4 |
| NR260 | Watershed Processes | 4 |
| PH201 | General Physics I: Mechanics | 5 |
| PH202 | General Physics II: Heat, Waves, Relativity | 5 |
| PH203 | Gen Physics III: Elect & Magnetism | 5 |
| PH211 | General Physics with Calculus I | 5 |
| PH212 | General Physics with Calculus II | 5 |
| PH213 | General Physics with Calculus III | 5 |

### Non-Laboratory Courses

| Code | Title | Credits |
|---|---|---|
| BI140 | Practical Ecology | 3 |
| BI149 | Introduction to Human Genetics | 3 |
| CHEM110 | Foundations of General, Organic, and Biochemistry | 4 |
| CS160 | Introduction To Computer Science | 4 |
| CS161 | Computer Science I | 4 |
| CS162 | Computer Science II | 4 |
| CS260 | Data Structures | 4 |
| ENV110 | Introduction Environmental Science | 3 |
| G221 | General Geology | 3 |
| G246 | Geological Hazards And Natural Catastrophes | 3 |
| MTH105Z | Math in Society | 4 |
| MTH111Z | Pre-Calculus | 4 |
| MTH112Z | Precalculus II: Trigonometry | 4 |
| MTH212 | Fundamentals of Elementary Mathematics II | 4 |
| MTH213 | Fundamentals of Elementary Mathematics III | 4 |
| MTH231 | Elements of Discrete Mathematics I | 4 |
| MTH232 | Elements of Discrete Mathematics II | 4 |
| MTH241 | Calculus for Bus and Soc Science I | 4 |
| MTH242 | Calculus for Bus and Soc Science II | 4 |
| MTH244 | Probability & Statistics II | 4 |
| MTH251Z | Differential Calculus | 4 |
| MTH252Z | Integral Calculus | 4 |
| MTH253Z | Calculus: Sequences and Series | 4 |
| MTH254 | Vector Calculus I | 4 |
| MTH255 | Vector Calculus II | 4 |
| MTH256 | Differential Equations | 4 |
| MTH260 | Matrix Methods and Linear Algebra | 4 |
| MTH264 | Introduction to Matrix Algebra and Power Series | 4 |
| STAT243Z | Elementary Statistics I | 4 |

## ELECTIVES

- All courses must be completed with a grade of 'C' or better.
- Students may take any college-level course that would bring total credits to 90 credit hours. Career and technical education courses may only be applied to the AS degree in the designated emphasis areas which are governed by agreements with four-year universities and are part of a current, formal transfer agreement with a four-year institution (see specific catalog program page).
- A maximum of nine (9) credits of PE185 sport/activity courses may be applied to the AS degree.
- Three (3) credit hours of PE185 sport/activity courses may be granted toward an AS degree for completion of military basic training. A copy of the military transcript or DD-214 is required.
- Courses numbered 199/299 will qualify as elective credit only.
- A maximum of 45 credits is allowed for basic, developmental, or supportive courses under federal financial aid guidelines.

Students graduating from Southwestern with a two-year degree are expected to have gained the knowledge, skills and attitudes (dispositions) and to demonstrate competency for the following institutional general learning outcomes:

### COMMUNICATION

Students completing a degree will be able to demonstrate effective knowledge, skills, and attitudes in reading, writing, speaking, and listening, presentation of self and information.

### COMPUTATION

Students completing a degree will be able to demonstrate effective knowledge, skills, and attitudes in technology skills, computer proficiency, math proficiency, decision analysis (synthesis & evaluation), understanding of and ability to apply mathematical concepts and reasoning, analyzing and using numerical data.

### CREATIVE, CRITICAL AND ANALYTICAL THINKING

Students completing a degree will be able to demonstrate effective knowledge, skills and attitudes using curiosity, learning strategies, information gathering, analysis, synthesis, evaluation, creativity, research, and problem solving.

### COMMUNITY/GLOBAL CONSCIOUSNESS AND RESPONSIBILITY

Students completing a degree will be able to demonstrate effective knowledge, skills, and attitudes involving respect, citizenship, cultural awareness, interpersonal skills, ethics, lifelong learning, community service, self-esteem, integrity, and empathy.

# BAKING AND PASTRY ARTS, ASSOCIATE OF APPLIED SCIENCE

The Associate of Applied Science (AAS) Baking and Pastry Arts provides a broad foundation of baking and pastry theory and practical training necessary for success in the food service industry. Students will learn the art of creating tasty baked goods, pastries, and confections, from traditional bread baking to beautiful showpieces. Students will also learn to use sugar, syrups, icings and chocolate. Prepares students for a career as a professional baker or pastry chef in a bakery, restaurant, hotel or resort.

Oregon Coast Culinary Institute (OCCI) at Southwestern was granted accreditation by the American Culinary Federation (ACF). This accreditation is the highest level available for initial accreditation by the ACF – the premier professional chefs' organization in North America, focusing its efforts on offering education, apprenticeship and industry certification. With the ACF accreditation, OCCI's graduates will automatically gain the title of Certified Culinarian upon graduation, along with their associate's degrees.

## ENTRY REQUIREMENTS

For application and fee information, contact OCCI Admissions at 541-888-7309.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 90 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Prepare yeast-raised products to include breads, yeast-leavened pastries to include laminated doughs, breakfast pastries and leavened cakes.
- Prepare a variety of cakes, fillings and icings to include chemical and mechanical leavening techniques.
- Prepare a variety of egg-and dairy-based products to include meringue, sponge, soufflés, mousses, custards, and creams.
- Prepare a variety of fried baked goods to include fritters and doughnuts.
- Prepare a variety of pastry products to include pies, tarts, Pâte à Choux, crepes, puff pastry, and fillo dough.
- Identify, select and demonstrate the use of various chocolates and sugar and the common uses for the decoration processes.
- List and explain the application of mixes and other convenience products pertaining to the baking process.
- Utilize concepts of cost control, purchasing, receiving, quality standards, profit, and staffing costs.
- Describe and apply the principles of nutrition to maximize nutrient retention in baking preparation.
- Demonstrate supervisory skills and abilities utilizing critical-thinking skills.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| CRT110 | Intro to Food and Beverage | 3 |
| CRT115 | Sanitization & Safety for Managers | 3 |
| CRT120 | Professional Presentations [1] | 3 |
| CRT170 | Baking & Pastry Foundations I | 5 |
| CRT175 | Baking & Pastry Foundations II | 5 |
| MTH81 | Applied Mathematics for Culinary Arts | 4 |
| | **Credits** | **23** |
| **Winter** | | |
| CRT135 | Culinary Nutrition [2] | 3 |
| CRT190 | Culinary Arts for Baking & Pastry | 5 |
| CRT130 | Menu Planning & Inventory Control | 2 |
| CRT185 | Baking & Pastry Foundations III | 5 |
| CIS120 | Concepts of Computing | 4 |
| | **Credits** | **19** |
| **Spring** | | |
| CRT145 | Restaurant Management & Supervision | 3 |
| CRT195 | Retail Baking | 5 |
| CRT205 | Wedding Cakes | 5 |
| CRT200 | Advanced Confectionary | 2 |
| WR115 | Fundamentals of Report Writing (or higher) [3] | 4 |
| | **Credits** | **19** |
| **Second Year** | | |
| **Summer** | | |
| CRT160 | Craft of Beverage Service | 3 |
| CRT165 | Restaurant Service | 10 |
| CRT2018 | Culinary Arts Career Planning | 1 |
| HE250 | Personal Health [4] | 3 |
| | **Credits** | **17** |
| **Fall** | | |
| CRT280B1 | Directed Practice: Baking & Pastry | 6 |
| | **Credits** | **6** |
| **Winter** | | |
| CRT280B1 | Directed Practice: Baking & Pastry | 6 |
| | **Credits** | **6** |
| | **Total Credits** | **90** |

[1] COMM111Z, COMM218Z, COMM219 may be substituted for CRT120.
[2] FN225 may be substituted for CRT135.
[3] A higher writing may be substituted excluding WR241, WR242, WR243, and WR250.
[4] PE231, HE250, or three (3) credits of PE185 sport/activity courses will satisfy this requirement.

# BAKING AND PASTRY ARTS, CERTIFICATE OF COMPLETION

The Certificate of Completion Baking and Pastry Arts provides a broad foundation of baking and pastry theory and practical training necessary for success in the food service industry. Students will learn the art of creating tasty baked goods, pastries, and confections, from traditional bread baking to beautiful showpieces. Students will also learn to use sugar, syrups, icings and chocolate. Prepares students for an entry-level baking position such as a pastry cook or baker in a bakery, restaurant, hotel or resort.

## ENTRY REQUIREMENTS

For application and fee information, contact OCCI Admissions at 541-888-7309.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 72 credit hours with a minimum Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twelve (12) credits must be completed at Southwestern before the Certificate of Completion is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Prepare yeast-raised products to include breads, yeast-leavened pastries to include laminated doughs, breakfast pastries and leavened cakes.
- Prepare a variety of cakes, fillings and icings to include chemical and mechanical leavening techniques.
- Prepare a variety of egg- and dairy-based products, fried baked goods, and a variety of pastry products to include but not limited to meringue, fritters, and pies.
- Identify, select and demonstrate the use of various chocolates and sugar and the common uses for the decoration processes.
- List and explain the application of mixes and other convenience products pertaining to the baking process.
- Describe and apply the principles of nutrition to maximize nutrient retention in baking preparation.
- Obtain ServSafe Certification.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| CRT115 | Sanitization & Safety for Managers | 3 |
| CRT170 | Baking & Pastry Foundations I | 5 |
| CRT175 | Baking & Pastry Foundations II | 5 |
| CRT110 | Intro to Food and Beverage | 3 |
| | **Credits** | **16** |
| **Winter** | | |
| CRT135 | Culinary Nutrition [1] | 3 |
| CRT190 | Culinary Arts for Baking & Pastry | 5 |
| CRT130 | Menu Planning & Inventory Control | 2 |
| CRT185 | Baking & Pastry Foundations III | 5 |
| | **Credits** | **15** |
| **Spring** | | |
| CRT145 | Restaurant Management & Supervision | 3 |
| CRT195 | Retail Baking | 5 |
| CRT200 | Advanced Confectionary | 2 |
| CRT205 | Wedding Cakes | 5 |
| | **Credits** | **15** |
| **Second Year** | | |
| **Summer** | | |
| CRT160 | Craft of Beverage Service | 3 |
| CRT165 | Restaurant Service | 10 |
| CRT2018 | Culinary Arts Career Planning | 1 |
| | **Credits** | **14** |
| **Fall** | | |
| CRT280B1 | Directed Practice: Baking & Pastry | 6 |
| | **Credits** | **6** |
| **Winter** | | |
| CRT280B1 | Directed Practice: Baking & Pastry | 6 |
| | **Credits** | **6** |
| | **Total Credits** | **72** |

[1] FN225 Nutrition may be substituted for CRT135.

# BAKING MANAGEMENT, ASSOCIATE OF APPLIED SCIENCE

The Associate of Applied Science (AAS) Baking Management program provides a broad foundation of baking and pastry theory and practical training necessary for success in the food service industry. Students will learn the art of creating tasty baked goods, pastries,and confections, from traditional bread baking to beautiful showpieces. Students will also learn to use sugar, syrups, icings and chocolate. This program curriculum prepares students for a career as a professional baker or pastry chef in a bakery, restaurant, hotel or resort.

This degree utilizes the same curriculum as the Baking and Pastry Arts degree, except that during the final terms the Baking Management student will take up to an additional 27 academic credits. This will allow the student to transfer into the Bachelor of Applied Science in Hospitality and Tourism program at Southern Oregon University (SOU) with junior standing for registration purposes. The articulated SOU Hospitality and Tourism Management degree will require an additional (9) credits in humanities, (4) credits in social sciences, and (11) credits in science to meet SOU's University Studies Requirements.

Oregon Coast Culinary Institute (OCCI) at Southwestern was granted accreditation by the American Culinary Federation (ACF). This accreditation is the highest level available for initial accreditation by the ACF – the premier professional chefs' organization in North America, focusing its efforts on offering education, apprenticeship and industry certification. With the ACF accreditation, OCCI's graduates will automatically gain the title of Certified Culinarian upon graduation, along with their associate's degrees.

## ENTRY REQUIREMENTS

For application and fee information, contact OCCI Admissions at 541-888-7309.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 106 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to

- Demonstrate understanding of safe and effective kitchen equipment use and maintenance.
- Prepare yeast-raised products to include breads, yeast-leavened pastries to include laminated doughs, breakfast pastries and leavened cakes.
- Prepare a variety of cakes, fillings and icings to include chemical and mechanical leavening techniques.
- Prepare a variety of egg-and dairy-based products to include meringue, sponge, soufflés, mousses, custards, and creams.
- Prepare a variety of fried baked goods to include fritters and doughnuts.
- Prepare a variety of pastry products to include pies, tarts, Pâte à Choux, crepes, puff pastry, and fillo dough.
- Identify, select and demonstrate the use of various chocolates and sugar and the common uses for the decoration processes.
- List and explain the application of mixes and other convenience products pertaining to the baking process.
- Engage in critical analysis and creative thinking in hospitality operations.
- Apply the basic principles of analytical thinking and problem solving when examining hospitality management issues.
- Analyze trends and organizational data and develop business strategies for the hospitality industry.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| CRT115 | Sanitization & Safety for Managers | 3 |
| CRT170 | Baking & Pastry Foundations I | 5 |
| CRT175 | Baking & Pastry Foundations II | 5 |
| CRT120 | Professional Presentations [1] | 3 |
| CRT110 | Intro to Food and Beverage | 3 |
| | **Credits** | **19** |
| **Winter** | | |
| CRT135 | Culinary Nutrition [2] | 3 |
| CRT190 | Culinary Arts for Baking & Pastry | 5 |
| CRT130 | Menu Planning & Inventory Control | 2 |
| CRT185 | Baking & Pastry Foundations III | 5 |
| CIS120 | Concepts of Computing | 4 |
| | **Credits** | **19** |
| **Spring** | | |
| CRT145 | Restaurant Management & Supervision | 3 |
| CRT195 | Retail Baking | 5 |
| CRT200 | Advanced Confectionary | 2 |
| CRT205 | Wedding Cakes | 5 |
| | **Credits** | **15** |
| **Second Year** | | |
| **Summer** | | |
| CRT160 | Craft of Beverage Service | 3 |
| CRT165 | Restaurant Service | 10 |
| CRT2018 | Culinary Arts Career Planning | 1 |

| | | |
|---|---|---|
| HE250 | Personal Health | 3 |
| | **Credits** | **17** |
| **Fall** | | |
| BA211Z | Principles of Financial Accounting | 4 |
| CRT280B1 | Directed Practice: Baking & Pastry | 6 |
| ECON201Z | Principles of Microeconomics | 4 |
| WR121Z | Composition I | 4 |
| | **Credits** | **18** |
| **Winter** | | |
| CRT280B1 | Directed Practice: Baking & Pastry | 6 |
| ECON202Z | Principles of Macroeconomics | 4 |
| STAT243Z | Elementary Statistics I | 4 |
| WR122Z | Composition II | 4 |
| | **Credits** | **18** |
| | **Total Credits** | **106** |

[1] COMM111Z, COMM218Z, COMM219 may be substituted for CRT120.
[2] FN225 may be substituted for CRT135.

# BIOLOGY, ASSOCIATE OF SCIENCE TRANSFER

The Associate of Science Transfer - Biology is a degree that SWOCC offers, and that is connected to the State of Oregon Biology Major Transfer Map (MTM). The MTM outlines Oregon community colleges' coursework to complete in order to transfer seamlessly to any Oregon four-year public university to earn a Bachelor of Science (B.S.) in Biology. This program is intended for students who know they want to transfer and earn a B.S. in Biology, but who may be unsure of their intended transfer destination. This program provides students with the foundations needed to transfer to a 4-year institution and complete studies for a bachelor's degree in biology, and possibly beyond.

## PROGRAM ENTRY REQUIREMENTS

AST pre-reqs apply: WR90R (Academic Literacy) or college-level placement AND MTH 98 (Math Literacy) or college-level placement. Please give the reason/justification for creating this program. The Biology Major Transfer Map (MTM) for Biology outlines Oregon community colleges' coursework to complete in order to transfer seamlessly to any Oregon four-year public university to earn a Bachelor of Science (B.S.) in Biology. The Associate of Science Transfer - Biology has been created in connection with the state mandated MTM, and in response to recent updates issued by the H.E.C.C., regarding the MTM and the transfer crosswalk document for Biology. This degree provides SWOCC students with one more viable option for transfer to one of the seven public 4-year institutions in Oregon, to complete a bachelor's degree.

## PROGRAM OUTCOMES

At the completion of this curriculum, students should be able to:

- Fulfill the student learning outcomes for an AST degree.
- Participate in recommended science courses that could include introductions to biology in preparation for transfer into a biology Bachelor's degree program or related.
- Use basic principles, identify and understand the foundations of biology.
- Critical Thinking: Collect and analyze data using classical methods and modern instrumentation and evaluate experimental results using the principles of the scientific method.
- Information Literacy: Locate, summarize, and critique scientific articles, as well as synthesize scientific information from various sources to communicate the results of their own experiments.

In addition to Program Outcomes, standards have been established for Student Learning Outcomes in General Education Courses in the following categories: Arts and Letters, Cultural Literacy, Mathematics, Science or Computer Science, Social Science, Speech and Oral Communication, Writing, and Information Literacy. Coursework in each of these areas supports student achievement of these outcomes.

| Course | Title | Credits |
|---|---|---|
| **Prerequisites** | | |
| MTH98 | Math Literacy (or college level placement) | 4 |
| WR90R | Academic Literacy (or college level placement) | 4 |
| | **Credits** | **8** |
| | **Total Credits** | **8** |

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| BI221Z | Principles of Biology: Cells | 5 |
| CHEM221Z | General Chemistry I | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |
| MTH111Z | Pre-Calculus | 4 |
| WR121Z | Composition I | 4 |
| | **Credits** | **18** |
| **Winter** | | |
| Arts and Letters Course [1] | | 3-4 |
| BI222Z | Principles of Biology: Organisms | 5 |
| CHEM222Z | General Chemistry II | 4 |
| CHEM228Z | General Chemistry II Laboratory | 1 |
| WR227Z | Technical Writing | 4 |
| | **Credits** | **17-18** |
| **Spring** | | |
| BI223Z | Principles of Biology: Ecolo/Evolut | 5 |
| CHEM223Z | General Chemistry III | 4 |
| CHEM229Z | General Chemistry III Laboratory | 1 |
| HE250 | Personal Health [2] | 3 |
| MTH112Z | Precalculus II: Trigonometry | 4 |
| | **Credits** | **17** |
| **Second Year** | | |
| **Fall** | | |
| Cultural Literacy Course [3] | | 3-4 |
| MTH251Z | Differential Calculus | 4 |
| PH201<br>or PH211 | General Physics I: Mechanics<br>or General Physics with Calculus I | 5 |
| Social Science Course [4] | | 3-4 |
| | **Credits** | **15-17** |
| **Winter** | | |
| Arts and Letters Course [1] | | 3-4 |
| MTH252Z | Integral Calculus | 4 |
| PH202<br>or PH212 | General Physics II: Heat, Waves, Relativity<br>or General Physics with Calculus II | 5 |
| | **Credits** | **12-13** |
| **Spring** | | |
| PH203<br>or PH213 | Gen Physics III: Elect & Magnetism<br>or General Physics with Calculus III | 5 |
| Social Sciences Course | | 3-4 |
| Elective (or university requiement to reach 90 credits) | | 6-8 |
| | **Credits** | **14-17** |
| | **Total Credits** | **93-100** |

[1] Select from MUS205, 206, PHL 102, 103 or ART204, 205, 206, 253, 256 or COMM100Z, 111Z, 218Z or ENG106Z, 109, 104Z, 105Z, 253, 254, 255

[2] or Health, Wellness, and Fitness Course from the AAOT list

[3] At least 1 Core Transfer Requirement course must also satisfy Cultural Literacy outcomes for AAOT. Select from list below.

[4] Select from PS201, 202, 203 or PSY201Z, 202Z, 237, 239, 243 or SOC205Z, 206Z, 208, 213, ANTH 222, 223

## AAOT CULTURAL LITERACY COURSES

| Code | Title | Credits |
|---|---|---|
| ANTH201 | Physical Anthropology and Evolution | 3 |
| ANTH202 | Introduction to Archaeology | 3 |
| ANTH203 | Language and Culture | 3 |
| ANTH221 | Intro to Cultural Anthropology | 3 |
| ANTH222 | Cultural Anthropology II | 3 |
| ANTH223 | Cultural Anthropology III | 3 |
| ANTH224 | Intro to Medical Anthropology | 3 |
| ANTH230 | Native North Americans: Oregon | 3 |
| ANTH231 | Native North Americans: PNW | 3 |
| ANTH232 | Native North Americans | 3 |
| ENG107 | World Literature | 3 |
| ENG108 | World Literature | 3 |
| ENG109 | World Literature | 3 |
| GEOG105 | Cultural Geography | 3 |
| HDFS140 | Contemporary American Families | 3 |
| HUM204 | World Mythology & Religion | 3 |
| HUM205 | World Mythology & Religion | 3 |
| HUM206 | World Mythology & Religion | 3 |
| HST104 | History of the Middle East | 3 |
| MUS205 | Intro to Jazz History | 3 |
| MUS206 | Intro to History of Rock and Roll | 3 |
| PSY216 | Social Psychology | 3 |
| PSY231 | Human Sexuality | 3 |
| SOC208 | Sociology of Sport | 3 |
| SOC210 | Marriage and Family | 3 |
| SOC213 | Racial and Ethnic Relations | 3 |
| SOC218 | Sociology of Gender | 3 |
| COMM220 | Gender And Communication | 4 |

# BUSINESS MANAGEMENT/ ENTREPRENEURSHIP, ASSOCIATE OF APPLIED SCIENCE

This two-year degree exposes students to all aspects of operating a small business with a focus on entrepreneurship. The program also prepares students for positions such as management trainee, first-line supervisor, buyers and purchasing agents, sales managers, and higher levels of management for either profit or nonprofit organizations. Focus is placed on entrepreneurship for those interested in starting/operating a business or applying this managerial approach in a medium to large organization.

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

Many students will decide to begin this program by first earning a Career Pathway Certificate of Completion in Supervision or Marketing. A Certificate of Completion can typically be completed in one year.

Students who intend to transfer to a four-year institution with the goal of completing a bachelor's degree in business should consider completing the ASOT-BUS degree and consult with business program faculty.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 95 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Identify appropriate ethical and legal procedures for a small business.
- Recognize and evaluate opportunities in the global marketplace.
- Demonstrate professional decorum while employing appropriate and effective business communication skills in virtual and interpersonal environments.
- Develop critical-thinking and decision-making skills as an individual, a team member, and a leader of an organization.
- Develop and evaluate financial record keeping systems and interpret results.
- Develop and evaluate marketing strategies for a small business.
- Explore entrepreneurial potential and develop a business plan.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| BA101Z | Introduction To Business | 4 |
| BA150 | Introduction to Entrepreneurship | 3 |
| CIS120 | Concepts of Computing | 4 |
| MTH82 | Business Mathematics [3] | 4 |
| | **Credits** | **15** |
| **Winter** | | |
| BA169Z | Data Analysis Using Microsoft Excel | 4 |
| BA211Z | Principles of Financial Accounting | 4 |
| BA223 | Principles of Marketing | 4 |

| | | |
|---|---|---|
| WR115 | Fundamentals of Report Writing [1] | 4 |
| | **Credits** | **16** |
| **Spring** | | |
| BA156 | Essentials of Economics [4] | 3 |
| BA206 | Management Fundamentals | 4 |
| BA233 | E-Marketing | 3 |
| BA213Z | Principles of Managerial Accounting | 4 |
| BA239 | Advertising | 3 |
| | **Credits** | **17** |
| **Second Year** | | |
| **Fall** | | |
| BA226Z | Introduction to Business Law | 4 |
| BA238 | Sales | 3 |
| BA250 | Applied Entrepreneurship | 3 |
| COMM218Z | Interpersonal Communication [5] | 4 |
| Specific Elective [6] | | 3 |
| | **Credits** | **17** |
| **Winter** | | |
| BA203 | Intro. to International Business | 3 |
| BA205 | Solving Communication Problems With Technology | 4 |
| BA222 | Financial Management | 3 |
| BA285 | Human Relations in Organizations [2] | 3 |
| PE231 | Wellness for Life [7] | 3 |
| | **Credits** | **16** |
| **Spring** | | |
| BA224 | Human Resource Management | 4 |
| BA277<br>or PHL102 | Business Ethics<br>or Ethics | 3 |
| BA280 | CWE: Business Admin [8] | 3 |
| BA292 | Entrepreneurship Capstone | 3 |
| Specific Elective [6] | | 3 |
| | **Credits** | **16** |
| | **Total Credits** | **97** |

1. A higher writing may be substituted excluding WR241, WR242, WR243, and WR250.
2. May be substituted for BA120, BA285, PSY100, PSY201Z, or PSY202Z.
3. MTH65, MTH95 or higher, excluding MTH211, may be substituted for MTH82.
4. Four (4) credits of ECON201Z or ECON202Z may be substituted for BA156.
5. COMM100Z, COMM111Z, COMM218Z, COMM219 will satisfy this requirement.
6. Specific Electives: Any AC, BA, CIS, CS, PSY, or SOC courses not required for degree; CRT115; ECON201Z; ECON202Z; MTH65; MTH95; MTH111Z; MTH241; STAT243Z.
7. PE231, HE250, or three (3) credits of PE185 sport/activity courses will satisfy this requirement.
8. Call 541-888-7405 to schedule with Internship Coordinator one month prior to term.

# MARKETING, CAREER PATHWAY CERTIFICATE OF COMPLETION

The Career Pathway Certificate of Completion: Marketing is for students who wish to update skills or increase advancement potential.

Courses are designed to provide students with a strong basic understanding of fundamentals and current practices in the field of marketing. Businesses will find this short-term certificate especially helpful in quickly training present and new employees in basic subject matter pertinent to the marketing function.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 29 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses in this program must be completed with a grade of 'C' or better. Six (6) credits must be completed at Southwestern before the Career Pathway Certificate of Completion is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Demonstrate effective communication skills including both verbal and written.
- Describe the marketing methods including the analysis and inter-relationship of the marketing mix: Product, price, place and promotion.
- Develop/implement a marketing plan to achieve the goals of a business.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| BA101Z | Introduction To Business | 4 |
| BA238 | Sales | 3 |
| | **Credits** | **7** |
| **Winter** | | |
| BA205 | Solving Communication Problems With Technology | 4 |
| BA223 | Principles of Marketing | 4 |
| CIS120 | Concepts of Computing | 4 |
| WR115 | Fundamentals of Report Writing [1] | 4 |
| | **Credits** | **16** |
| **Spring** | | |
| BA233 | E-Marketing | 3 |

| | | |
|---|---|---|
| BA239 | Advertising | 3 |
| | **Credits** | **6** |
| | **Total Credits** | **29** |

[1] A higher writing may be substituted excluding WR241, WR242, WR243, or WR250.

# SUPERVISION, CAREER PATHWAY CERTIFICATE OF COMPLETION

The Career Pathway Certificate of Completion: Supervision prepares the individual for careers in supervision and management. Its objective is to assist students in learning the newest supervisory and management skills and to help businesses save money on training costs.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 22 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Six (6) credits must be completed at Southwestern before the Career Pathway Certificate of Completion is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Demonstrate effective communication skills including both verbal and written.
- Understand the role of a leader.
- Identify and implement strategies for managing employee relations.

Program Guide

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| BA101Z | Introduction To Business | 4 |
| | **Credits** | **4** |
| **Winter** | | |
| BA285 | Human Relations in Organizations [1] | 3 |
| WR115 | Fundamentals of Report Writing | 4 |
| COMM218Z | Interpersonal Communication [2] | 4 |
| | **Credits** | **11** |
| **Spring** | | |
| BA206 | Management Fundamentals | 4 |
| BA224 | Human Resource Management | 4 |
| | **Credits** | **8** |
| | **Total Credits** | **23** |

[1] BA120, BA285, PSY100, PSY201Z, PSY202Z will satisfy this requirement.

[2] COMM100Z, COMM111Z, COMM218Z, COMM219 will satisfy this requirement.

# BUSINESS, ASSOCIATE OF SCIENCE TRANSFER

The Associate of Science/Oregon Transfer Business (AST-BUS) is a degree that is intended to prepare students for transfer into a bachelor-level business program at a public Oregon university. Students who receive this degree will have met all lower division general education requirements of that institution's bachelor's degree programs. Students transferring with this degree will have junior standing for registration purposes. Admission to the business school/program of any public Oregon university is not guaranteed upon completion of the ASOT-BUS degree.

Students who plan to transfer should contact their chosen transfer institution as soon as possible. Universities have different requirements such as minimum GPA requirements, a limitation of non-graded courses (Pass/No Pass), or specific additional courses.

## GRADUATION REQUIREMENTS

Complete a minimum of 90 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the ASOT Business degree is awarded.

Students must complete a minimum of 90 credit hours. A maximum of nine (9) credits of PE185 may be applied to the ASOT-BUS degree. Career Technical Education courses may only count for 12 credits. Eight to nine (8-9) CTE credits may be accepted by a four-year business program. See specific CTE limitations at the four-year institution. Courses that are developmental in nature (designed to prepare students for college transfer courses) are not applicable to this degree. Three (3) credit hours of PE185 sport/activity courses may be granted toward the degree for successful completion of military basic training. A copy of military transcript or DD-214 is required. A maximum of 45 credits is allowed for basic or supportive courses under federal financial aid guidelines. All Honors courses may substitute for their equivalent requirements.

Students must complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| BA101Z | Introduction To Business | 4 |
| ECON201Z | Principles of Microeconomics | 4 |
| MTH105Z | Math in Society | 4 |
| WR121Z | Composition I | 4 |
| | **Credits** | **16** |
| **Winter** | | |
| Arts and Letters Course (choose from AAOT list) | | 3-4 |
| BA226Z | Introduction to Business Law | 4 |
| ECON202Z | Principles of Macroeconomics | 4 |
| WR227Z | Technical Writing | 4 |
| | **Credits** | **15-16** |
| **Spring** | | |
| BA169Z | Data Analysis Using Microsoft Excel | 4 |
| STAT243Z | Elementary Statistics I | 4 |
| Arts and Letters Course (choose from AAOT list) | | 3-4 |
| Social Science (choose from AAOT list) | | 3-4 |
| | **Credits** | **14-16** |
| **Second Year** | | |
| **Fall** | | |
| Natural Sciences (Choose a lab Biological or Nat Science course from the AAOT list) | | 4-5 |
| BA211Z | Principles of Financial Accounting | 4 |
| COMM111Z | Public Speaking | 4 |
| General Elective (Choose from any transfer AAOT course) | | 3-4 |
| | **Credits** | **15-17** |
| **Winter** | | |
| BA213Z | Principles of Managerial Accounting | 4 |
| BA217 | Accounting Process ((suggested elective)) | 3 |
| Natural Sciences (Choose a lab Bio or Nat Science course from the AAOT list) | | 4-5 |
| General Elective (Choose a transfer course from the AAOT list) | | 3-4 |
| | **Credits** | **14-16** |
| **Spring** | | |
| BA206 | Management Fundamentals ( (suggested elective)) | 4 |
| BA222 | Financial Management ( (suggested elective)) | 3 |
| BA240 | Fund Accounting ( (suggested elective)) | 3 |
| General Electives (choose from the transfer course from the AAOT list) | | 6 |
| | **Credits** | **16** |
| | **Total Credits** | **90-97** |

## FOUNDATIONAL REQUIREMENTS

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

### WRITING

**Eight (8) credits** of writing are required, so choose **two (2) courses** from below. Information Literacy will be included in the writing requirement**:**

| Code | Title | Credits |
|---|---|---|
| WR121Z | Composition I | 4 |
| WR227Z | Technical Writing | 4 |
| or WR122Z | Composition II | |

*Information Literacy is included through embedding the appropriate content and analytic activity in foundational writing courses.*

### MATHEMATICS

**Take (3) math courses - Statistics and (2) courses for which MTH 95 is a prerequisite:**

| Code | Title | Credits |
|---|---|---|
| STAT243Z | Elementary Statistics I | 4 |

Two courses for which MTH95 is a prerequisite.

## COMMUNICATION

**A minimum of one (1) course in fundamentals of speech or communication:**

| Code | Title | Credits |
|---|---|---|
| COMM100Z | Introduction to Communication | 4 |
| COMM111Z | Public Speaking | 4 |
| COMM218Z | Interpersonal Communication | 4 |
| COMM219 | Small Group Discussion | 4 |

## DIGITAL LITERACY

| Code | Title | Credits |
|---|---|---|
| CIS120 | Concepts of Computing | 4 |

# DISCIPLINE STUDY REQUIREMENTS

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

## ARTS AND LETTERS

**Three (3) courses chosen from two (2) or more disciplines:**

*Second year foreign language may be included, but not first year.*

| Code | Title | Credits |
|---|---|---|
| ART115 | Basic Design I Intro to Elements of Art and Principles of Design | 4 |
| ART116 | Basic Design II, Color Theory | 4 |
| ART117 | Basic Design III, Intro to 3D Desgn | 4 |
| ART131 | Introduction to Drawing I | 3 |
| ART132 | Introduction to Drawing II | 3 |
| ART133 | Introduction to Drawing III | 3 |
| ART191 | Beginning Sculpture | 3 |
| ART192 | Beginning Sculpture | 3 |
| ART204 | History of Western Art: Introduction to Art History | 3 |
| ART205 | History of Western Art: Introduction to Art History | 3 |
| ART206 | History of Western Art: Introduction to Art History | 3 |
| ART244 | Bronze Casting | 3 |
| ART253 | Ceramics I | 3 |
| ART256 | Ceramics II | 3 |
| ART281 | Painting I Beginning | 3 |
| ART282 | Painting II Beginning | 3 |
| ART283 | Painting III Beginning | 3 |
| ART284 | Painting I Intermediate | 3 |
| ART285 | Painting II Intermediate | 3 |
| ART286 | Painting III Intermediate | 3 |
| ASL201 | 2nd Yr American Sign Language I | 4 |
| ASL202 | 2nd Yr American Sign Language II | 4 |
| ASL203 | 2nd Yr American Sign Language III | 4 |
| COMM100Z | Introduction to Communication | 4 |
| COMM111Z | Public Speaking | 4 |
| COMM218Z | Interpersonal Communication | 4 |
| COMM219 | Small Group Discussion | 4 |
| COMM220 | Gender And Communication | 4 |
| ENG104Z | Introduction To Fiction | 4 |
| ENG105Z | Introduction To Drama | 4 |
| ENG106Z | Introduction To Poetry | 4 |
| ENG107 | World Literature | 3 |
| ENG108 | World Literature | 3 |
| ENG109 | World Literature | 3 |
| ENG201 | Shakespeare | 3 |
| ENG204 | Survey of English Literature | 3 |
| ENG205 | Survey of English Literature | 3 |
| ENG206 | Survey of English Literature | 3 |
| ENG253 | Survey of American Literature | 3 |
| ENG254 | Survey of American Literature | 3 |
| ENG255 | Survey of American Literature | 3 |
| HUM204 | World Mythology & Religion | 3 |
| HUM205 | World Mythology & Religion | 3 |
| HUM206 | World Mythology & Religion | 3 |
| MUS101 | Music Fundamentals | 3 |
| MUS111 | Music Theory I | 3 |
| MUS112 | Music Theory II | 3 |
| MUS113 | Music Theory III | 3 |
| MUS201 | Intro to Music and its Literature | 3 |
| MUS202 | Intro to Music and its Literature | 3 |
| MUS203 | Intro to Music and its Literature | 3 |
| MUS205 | Intro to Jazz History | 3 |
| MUS206 | Intro to History of Rock and Roll | 3 |
| MUS211 | Advanced Music Theory I | 3 |
| MUS212 | Advanced Music Theory II | 3 |
| MUS213 | Advanced Music Theory III | 3 |
| PHL101 | Introduction to Philosophy: Philosophical Problems | 3 |
| PHL102 | Ethics | 3 |
| PHL103 | Intro to Logic and Critical Thnkg | 3 |
| SPAN201 | Second Year Spanish | 4 |
| SPAN202 | Second Year Spanish | 4 |
| SPAN203 | Second Year Spanish | 4 |
| WR241 | Imaginative Creative Writing Fiction | 3 |
| WR242 | Imaginative Writing Poetry | 3 |
| WR243 | Imaginative Creative Writing - Play | 3 |

## SOCIAL SCIENCES

**Two (2) courses from the list below:**

| Code | Title | Credits |
|---|---|---|
| ANTH201 | Physical Anthropology and Evolution | 3 |
| ANTH202 | Introduction to Archaeology | 3 |
| ANTH203 | Language and Culture | 3 |
| ANTH221 | Intro to Cultural Anthropology | 3 |
| ANTH222 | Cultural Anthropology II | 3 |
| ANTH223 | Cultural Anthropology III | 3 |

| | | |
|---|---|---|
| ANTH224 | Intro to Medical Anthropology | 3 |
| ANTH230 | Native North Americans: Oregon | 3 |
| ANTH231 | Native North Americans: PNW | 3 |
| ANTH232 | Native North Americans | 3 |
| CJ101 | Intro to Criminology | 4 |
| ED169 | Overview of Student Special Needs | 3 |
| ED258 | Multicultural Education | 3 |
| GEOG105 | Cultural Geography | 3 |
| HDFS140 | Contemporary American Families | 3 |
| HDFS222 | Understanding Families: Supporting Diversity Disability and Risk | 3 |
| HDFS229 | Child Development PreK - Adolescent | 3 |
| HDFS247 | Child Development 0-8 | 3 |
| HST101 | History of Western Civilization | 3 |
| HST102 | History of Western Civilization | 3 |
| HST103 | History of Western Civilization | 3 |
| HST104 | History of the Middle East | 3 |
| HST201 | History of the United States | 3 |
| HST202 | History of the United States | 3 |
| HST203 | History of the United States | 3 |
| HST240 | Hist of Oregon and the South Coast | 3 |
| PS201 | American Government: Political Institutions | 3 |
| PS202 | American Government: Policy Issues | 3 |
| PS203 | Local Politics and Government | 3 |
| PS205 | International Relations: US Foreign Policy in the 20th Century | 3 |
| PSY100 | Introduction to Psychology | 4 |
| PSY201Z | Introduction to Psychology I | 4 |
| PSY202Z | Introduction to Psychology II | 4 |
| PSY216 | Social Psychology | 3 |
| PSY228 | Introduction to Social Science Research | 3 |
| PSY231 | Human Sexuality | 3 |
| PSY237 | Life Span Development | 3 |
| PSY239 | Introduction to Abnormal Psychology | 3 |
| PSY243 | Drugs and Behavior | 3 |
| SOC204Z | Introduction to Sociology | 4 |
| SOC205Z | Social Change and Institutions | 4 |
| SOC206Z | Social Problems | 4 |
| SOC208 | Sociology of Sport | 3 |
| SOC210 | Marriage and Family | 3 |
| SOC213 | Racial and Ethnic Relations | 3 |
| SOC218 | Sociology of Gender | 3 |

## SCIENCE/MATHEMATICS/COMPUTER SCIENCE

**Four (4) courses from two (2) or more disciplines including at least three (3) laboratory courses in biological and/or physical science.**

### Laboratory Courses

| Code | Title | Credits |
|---|---|---|
| BI101 | General Biology | 4 |
| BI102 | General Biology | 4 |
| BI103 | General Biology | 4 |
| BI142 | Habitats: Marine Biology | 4 |
| BI201 | | 4 |
| BI202 | | 4 |
| BI203 | | 4 |
| BI231 | Human Anatomy and Physiology I | 4 |
| BI232 | Human Anatomy and Physiology II | 4 |
| BI233 | Human Anatomy and Physiology III | 4 |
| BI234 | Microbiology | 4 |
| CHEM221Z | General Chemistry I (must also take CHEM227Z) | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |
| CHEM222Z | General Chemistry II (must also take CHEM228Z) | 4 |
| CHEM228Z | General Chemistry II Laboratory | 1 |
| CHEM223Z | General Chemistry III (must also take CHEM229Z) | 4 |
| CHEM229Z | General Chemistry III Laboratory | 1 |
| ENV235 | Introduction to Soil Science | 4 |
| G201 | Physical Geology I | 4 |
| G202 | Physical Geology II | 4 |
| G203 | Historical Geology | 4 |
| GS104 | Physical Science | 4 |
| GS105 | Physical Science | 4 |
| GS106 | Introduction to Earth Science | 4 |
| GS107 | Astronomy | 4 |
| GS108 | Oceanography | 4 |
| PH201 | General Physics I: Mechanics | 5 |
| PH202 | General Physics II: Heat, Waves, Relativity | 5 |
| PH203 | Gen Physics III: Elect & Magnetism | 5 |
| PH211 | General Physics with Calculus I | 5 |
| PH212 | General Physics with Calculus II | 5 |
| PH213 | General Physics with Calculus III | 5 |

### Non-Laboratory Courses

| Code | Title | Credits |
|---|---|---|
| BI140 | Practical Ecology | 3 |
| BI149 | Introduction to Human Genetics | 3 |
| CHEM110 | Foundations of General, Organic, and Biochemistry | 4 |
| CS160 | Introduction To Computer Science | 4 |
| CS161 | Computer Science I | 4 |
| CS162 | Computer Science II | 4 |
| ENV110 | Introduction Environmental Science | 3 |
| CS260 | Data Structures | 4 |
| G221 | General Geology | 3 |
| G246 | Geological Hazards And Natural Catastrophes | 3 |
| MTH105Z | Math in Society | 4 |
| MTH111Z | Pre-Calculus | 4 |
| MTH112Z | Precalculus II: Trigonometry | 4 |
| MTH212 | Fundamentals of Elementary Mathematics II | 4 |
| MTH213 | Fundamentals of Elementary Mathematics III | 4 |
| MTH231 | Elements of Discrete Mathematics I | 4 |
| MTH232 | Elements of Discrete Mathematics II | 4 |
| MTH241 | Calculus for Bus and Soc Science I | 4 |
| MTH242 | Calculus for Bus and Soc Science II | 4 |

| | | |
|---|---|---|
| MTH244 | Probability & Statistics II | 4 |
| MTH251Z | Differential Calculus | 4 |
| MTH252Z | Integral Calculus | 4 |
| MTH253Z | Calculus: Sequences and Series | 4 |
| MTH254 | Vector Calculus I | 4 |
| MTH255 | Vector Calculus II | 4 |
| MTH256 | Differential Equations | 4 |
| MTH260 | Matrix Methods and Linear Algebra | 4 |
| MTH264 | Introduction to Matrix Algebra and Power Series | 4 |

# BUSINESS-SPECIFIC REQUIRED COURSES

**REQUIRED COURSES:**

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

| Code | Title | Credits |
|---|---|---|
| BA101Z | Introduction To Business | 4 |
| BA211Z | Principles of Financial Accounting | 4 |
| BA212 | Principles of Accounting II | 4 |
| BA213Z | Principles of Managerial Accounting | 4 |
| BA226Z | Introduction to Business Law | 4 |
| ECON201 | | 4 |
| ECON202 | | 4 |
| Elective [1] | | 3-4 |

[1] A university-specific elective is recommended. See your advisor for help choosing an elective.

# CULTURAL LITERACY

**Students are required to complete at least one (1) course from any of the above discipline studies that meets the statewide criteria for cultural literacy. SWOCC offers these courses that satisfy the Cultural Literacy requirement.**

| Code | Title | Credits |
|---|---|---|
| ANTH201 | Physical Anthropology and Evolution | 3 |
| ANTH202 | Introduction to Archaeology | 3 |
| ANTH203 | Language and Culture | 3 |
| ANTH221 | Intro to Cultural Anthropology | 3 |
| ANTH222 | Cultural Anthropology II | 3 |
| ANTH223 | Cultural Anthropology III | 3 |
| ANTH224 | Intro to Medical Anthropology | 3 |
| ANTH230 | Native North Americans: Oregon | 3 |
| ANTH231 | Native North Americans: PNW | 3 |
| ANTH232 | Native North Americans | 3 |
| COMM220 | Gender And Communication | 4 |
| ED258 | Multicultural Education | 3 |
| ENG107 | World Literature | 3 |
| ENG108 | World Literature | 3 |
| ENG109 | World Literature | 3 |
| GEOG105 | Cultural Geography | 3 |
| HDFS140 | Contemporary American Families | 3 |
| HUM204 | World Mythology & Religion | 3 |
| HUM205 | World Mythology & Religion | 3 |
| HUM206 | World Mythology & Religion | 3 |
| HST104 | History of the Middle East | 3 |
| MUS205 | Intro to Jazz History | 3 |
| MUS206 | Intro to History of Rock and Roll | 3 |
| PSY216 | Social Psychology | 3 |
| PSY231 | Human Sexuality | 3 |
| SOC208 | Sociology of Sport | 3 |
| SOC210 | Marriage and Family | 3 |
| SOC213 | Racial and Ethnic Relations | 3 |
| SOC218 | Sociology of Gender | 3 |

# STUDENT PROGRAM LEARNING OUTCOMES

## ARTS & LETTERS

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

## CULTURAL LITERACY

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

## 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.

## 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.

## 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.

## SPEECH/ORAL COMMUNICATION

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

## WRITING

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

## INFORMATION LITERACY

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

# CHEMICAL ENGINEERING, ASSOCIATE OF SCIENCE

The Associate of Science (AS) in Chemical Engineering degree will provide fundamental engineering skills. Chemical engineering is the study and modeling of systems where heat and fluid flow are coupled with chemical reactions. Examples of systems are the human body, ground water, the atmosphere, the ocean, and chemical reactors. Natural systems are measured and modeled in order to understand present and future behavior. Man-made systems are specifically designed to convert raw materials into more useful products. This degree was designed to transfer to Oregon State University's College of Engineering. Please consult your advisor for details.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 106 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded. Courses that are developmental in nature (designed to prepare students for college transfer courses) are not applicable to this degree. Students must complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Communicate effectively with a range of audiences.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

## PLACEMENT INFORMATION

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| CHEM221Z | General Chemistry I | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |
| ENGR111 | Intro to Engineering [1] | 3 |
| ENGR211 | Statics [1] | 3 |
| MTH251Z | Differential Calculus | 4 |
| | **Credits** | **15** |
| **Winter** | | |
| CHEM222Z | General Chemistry II | 4 |
| CHEM228Z | General Chemistry II Laboratory | 1 |
| ENGR112 | Engineering Computation | 4 |
| MTH252Z | Integral Calculus | 4 |
| WR121Z | Composition I | 4 |
| | **Credits** | **17** |
| **Spring** | | |
| BI223Z | Principles of Biology: Ecolo/Evolut | 5 |
| CHEM223Z | General Chemistry III | 4 |
| CHEM229Z | General Chemistry III Laboratory | 1 |
| MTH264 | Introduction to Matrix Algebra and Power Series | 4 |
| WR227Z | Technical Writing | 4 |
| | **Credits** | **18** |
| **Summer** | | |
| Social Science [4] | | 3 |
| Arts and Letters [3] | | 3 |
| Social Science (Cultural Diversity) [3] | | 3 |
| | **Credits** | **9** |
| **Second Year** | | |
| **Fall** | | |
| CHEM245 | Organic Chemistry I | 4 |
| MTH254 | Vector Calculus I | 4 |
| PH211 | General Physics with Calculus I | 5 |
| ENGR201 | Electrical Fundamentals I | 4 |
| | **Credits** | **17** |
| **Winter** | | |
| COMM111Z | Public Speaking | 4 |
| PE231 | Wellness for Life [5] | 3 |
| PH212 | General Physics with Calculus II | 5 |
| CHEM246 | Organic Chemistry II | 4 |
| | **Credits** | **16** |
| **Spring** | | |
| MTH256 | Differential Equations | 4 |
| PH213 | General Physics with Calculus III | 5 |
| CHEM247 | Organic Chemistry III | 4 |
| Arts & Letters [3] | | 3 |
| | **Credits** | **16** |
| | **Total Credits** | **108** |

1. ENGR211 may require instructor consent if taken before completion of MTH252.
2. Select one from: BI201, BI202, or BI203.
3. Select course from specific subject area from the AS course list. Cultural Diversity elective must be a social science course.
4. Choose from the following: ANTH201, ANTH202, ANTH203, ANTH221, ANTH222, ANTH223, ANTH224, ANTH230, ANTH231, ANTH232. ED258, HDFS140, HST140, PSY216, PSY231, SOC208, SOC213.

[5] 3 credits of PE 185 may substitute for PE 231

# CHEMISTRY, ASSOCIATE OF SCIENCE

The Associate of Science Degree in Chemistry prepares students for transfer to a four-year school as juniors in either chemistry or biochemistry majors. The curriculum provides fundamental knowledge of the major fields of chemistry, covering a full year of both general and organic chemistry. Students will gain laboratory experience in organic synthesis, analytical methods, and spectroscopy. Chemistry is called the central science and as such, it serves as a foundation for careers in many fields, such as medicine, environmental science, and materials science.

This degree is designed to transfer to Southern Oregon University's Bachelor of Science in Chemistry program. Other transfer options may be available. Consult your advisor for details.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 95 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

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

Students must complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Demonstrate knowledge of chemical structure to predict and explain the physical properties of chemical materials.
- Demonstrate knowledge of chemical reactivity to predict and explain the outcomes of reactions.
- Demonstrate knowledge of chemical quantitation to predict and explain chemical phenomena.
- Critical Thinking: Collect and analyze data using classical methods and modern instrumentation and evaluate experimental results using the principles of the scientific method.
- Information Literacy: Locate, summarize, and critique scientific articles, as well as synthesize scientific information from various sources to communicate the results of their own experiments.
- Global Learning: Demonstrate personal and social responsibility, environmental stewardship, and global self-awareness.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| BI221Z | Principles of Biology: Cells | 5 |
| CHEM221Z | General Chemistry I | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |
| MTH251Z | Differential Calculus | 4 |
| WR121Z | Composition I | 4 |
| | **Credits** | **18** |
| **Winter** | | |
| BI222Z | Principles of Biology: Organisms | 5 |
| CHEM222Z | General Chemistry II | 4 |
| CHEM228Z | General Chemistry II Laboratory | 1 |
| MTH252Z | Integral Calculus | 4 |
| WR227Z | Technical Writing | 4 |
| | **Credits** | **18** |
| **Spring** | | |
| BI223Z | Principles of Biology: Ecolo/Evolut | 5 |
| CHEM223Z | General Chemistry III | 4 |
| CHEM229Z | General Chemistry III Laboratory | 1 |
| COMM111Z | Public Speaking | 4 |
| Western Culture [1] | | 3 |
| | **Credits** | **17** |
| **Second Year** | | |
| **Fall** | | |
| CHEM245 | Organic Chemistry I | 4 |
| MTH254 | Vector Calculus I | 4 |
| PH211 | General Physics with Calculus I | 5 |
| Difference, Power, and Discrimination [2] | | 3 |
| | **Credits** | **16** |
| **Winter** | | |
| CHEM246 | Organic Chemistry II | 4 |
| PH212 | General Physics with Calculus II | 5 |
| Social Processes and Institutions [3] | | 3 |
| Cultural Diversity [4] | | 3 |
| | **Credits** | **15** |
| **Spring** | | |
| CHEM247 | Organic Chemistry III | 4 |
| PH213 | General Physics with Calculus III | 5 |
| PE231 | Wellness for Life | 3 |
| Literature and the Arts [5] | | 3 |
| | **Credits** | **15** |
| | **Total Credits** | **99** |

[1] Western Culture - options: ART204, ART205, ART206, ENG107, ENG108, ENG109, ENG201, ENG204, ENG205, ENG206, HST101, HST102, HST103, HST201, HST202, HST203, MUS201, MUS202, MUS203, PHL101, PHL102.

[2] Difference, Power, and Discrimination - options: HST201, HST202, HST203, SOC206Z , SOC213

[3] Social Processes and Institutions - options: ANTH221 , ANTH222 , ANTH223 , ECON201Z, ECON202Z, HST101, HST102, HST103, PS201, PS205, PSY201Z , PSY202Z , SOC204Z, or SOC205Z.

[4] Cultural Diversity - options: ANTH224, ANTH230, ANTH231, ANTH232, HST104, HUM204, HUM205, HUM206

[5] Literature and the Arts - options: ART204, ART205, ART206, ENG104Z, ENG105Z, ENG106Z, ENG107, ENG108, ENG109, ENG201, ENG204, ENG205, ENG206, ENG262, MUS201, MUS202, MUS203.

[6] At least two courses must be chosen from the Arts and Letters section from the AS course list to meet the above requirements.

# CHILDHOOD EDUCATION AND FAMILY STUDIES, ASSOCIATE OF SCIENCE

The Associate of Science Childhood Education and Family Studies degree (AS CE&FS) meets all of the requirements for an Associate of Arts Oregon Transfer (AAOT) degree while giving a strong foundation in childhood education and family studies - allowing students to earn a degree that will meet employment requirements for many early childhood programs, and provide an opportunity for a seamless transfer into a bachelor's degree program.

All courses specific to childhood education and family studies degrees and certificates are offered online through Southwestern's online platform. Transfer courses that meet Southwestern's course outcomes are readily accepted into the program.

Southwestern's AS CE&FS degree is articulated with Eastern Oregon University's online bachelor's degree with a focus on Early Childhood Education and Southern Oregon University's Early Childhood Development program. This degree can also lead to a bachelor's degree in human development, early childhood education or social science with a certificate in early childhood education at Portland State University (PSU) Distance Education programs. Students may petition for adjustments in the Southwestern AS degree if course requirements are met for the first two years of any regionally accredited four-year institution offering a degree in education, early childhood education, family studies, human or child development.

For further program information, contact the Childhood Education faculty at ece@socc.edu.

Southwestern's Childhood Education and Family Studies (CE&FS) program goals are to:

- Empower its graduates by enabling them to acquire the knowledge and skills that will allow them to excel in their careers or further educational goals.
- Support teachers' professional growth and development.
- Provide models for teacher candidates to develop effective knowledge, skills and attitudes.

Graduates of the Childhood Education and Family Studies (CE&FS) program will possess broad general education and content area knowledge, remain effective and reflective practitioners and problem solvers, apply innovative learning technologies, and participate in opportunities for professional growth.

## ENTRY REQUIREMENTS

Students are required to complete the College's placement process to determine skill level and readiness in math and writing. As part of their training program, students must begin with the courses within their skill level as determined by the placement process.

Students participating in all education practicums must meet measles immunization requirements. If you choose not to vaccinate for measles due to personal, religious, or philosophical reasons, you may claim a nonmedical or medical exemption. Visit www.oregon.gov/oha and look under Program and Services for more information on how to get your immunization records or claim an exemption. Note that each practicum site may have separate immunization requirements.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 98 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

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

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## CREDIT FOR PRIOR LEARNING

Credit for prior learning options are available for students with a Preschool Child Development Associate (CDA) credential, an Infant Toddler Child Development Associate (CDA) credential, a Step Seven on the Oregon Registry.

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this degree, students will have knowledge and skills in the following areas:

- Observe, Document, and Assess to Support Young Children and Families
- Use Developmentally Effective Approaches
- Promote Child Development and Learning
- Build Family and Community Relationships

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ECE150 | Introduction and Observation in ECE | 4 |
| ECE170 | Health and Safety Early Childhood [1] | 3 |
| HDFS225 | Prenatal Infant and Toddler Development | 3 |
| MTH105Z | Math in Society [4] | 4 |
| WR121Z | Composition I | 4 |
| | **Credits** | **18** |
| **Winter** | | |
| ECE163 | Environments and Guidance in ECE [2] | 3 |
| ECE163B | Practicum I ECE [2] | 2 |
| ECE151 | Guidance and Classroom Management | 3 |
| HDFS247 | Child Development 0-8 | 3 |
| WR122Z | Composition II | 4 |

| | | |
|---|---|---|
| Science/Mathematics/Computer Science [3] | | 4 |
| | **Credits** | **19** |
| **Spring** | | |
| COMM218Z | Interpersonal Communication | 4 |
| ECE209 | Theory and Practice I Pre-K [2] | 3 |
| ECE209B | Practicum II Pre-K [2] | 2 |
| ECE154 | Children's Language and Lit Dev | 3 |
| HDFS229 | Child Development PreK - Adolescent | 3 |
| | **Credits** | **15** |
| **Second Year** | | |
| **Fall** | | |
| ECE102 | Theory and Practice II Pre-K [2] | 3 |
| ECE102B | Practicum III Pre-K [2] | 2 |
| ECE240 | Lesson and Curriculum Planning | 3 |
| ED169 | Overview of Student Special Needs | 3 |
| Science/Mathematics/Computer Science [3] | | 4 |
| | **Credits** | **15** |
| **Winter** | | |
| ED258 | Multicultural Education | 3 |
| HDFS140 | Contemporary American Families | 3 |
| Arts and Letters [5] | | 3 |
| Arts and Letters [5] | | 3 |
| Science/Mathematics/Computer Science [3] | | 4 |
| | **Credits** | **16** |
| **Spring** | | |
| ED134 | Children Who are Dual Lang Learners | 2 |
| PE231 | Wellness for Life [6] | 3 |
| HDFS222 | Understanding Families: Supporting Diversity Disability and Risk | 3 |
| Science/Mathematics/Computer Science [3] | | 4 |
| Arts and Letters [5] | | 3 |
| | **Credits** | **15** |
| | **Total Credits** | **98** |

1. Online CPR Certificates are not recognized by the State of Oregon. It is recommended you complete an in-person training.
2. ECE163, ECE209 and ECE102 must be taken in sequence with their co-requisite practicum courses. Exception granted with instructor approval.
3. AAOT Science/Math/Computer Science designated courses will satisfy this requirement. GS104, GS105, GS106,GS107, or GS108 are recommended.
4. A higher math may be substituted. Students considering the pursuit of K-12 teaching will be required to take MTH211, MTH212 and MTH213.
5. AAOT Arts & Letters designated courses will satisfy this requirement. Students with 1st year Foreign Language or ASL are recommended to take Second Year Foreign Language or ASL. ART131, ENG109, or HUM206 also recommended.
6. HE250 may be substituted for PE231.

# CIS DIGITAL DESIGN, ASSOCIATE OF APPLIED SCIENCE

The Associate of Applied Science (AAS) CIS Digital Design degree is designed to successfully prepare students for careers in the expanding fields of digital design and media productions through an integrated curriculum exposing students to design principles and technical strategies. Upon successful completion of the AAS CIS Digital Design degree, students are prepared for a variety of entry-level positions in numerous digital design fields. Students attain knowledge and learn skills to seek careers in creative and support professions within such media industries as film and video, graphic design, production, game development, animation, and web design. Some of the careers available in digital design include: digital experience designer, UI/UX designer, motion graphics artist, 3D motion designer, virtual production technician, multimedia producer, digital asset manager, extended reality (XR) production assistant, web & interactive designer, AR/VR content creator, and emerging opportunities in interactive media and immersive technology.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 90 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

1. Apply industry-standard design principles, including composition, UX/UI methodologies, and branding strategies.
2. Plan, design, develop, and edit digital images, graphics, and visual assets for 2D and 3D media.
3. Plan, design, develop, and edit digital time-based media, including animation, motion graphics, and virtual production.
4. Plan, design, develop, and edit interactive experiences for web, mobile, gaming, and XR platforms.
5. Work effectively as part of a creative technology team using industry collaboration tools and workflows.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ART131 | Introduction to Drawing I | 3 |
| DD110 | Game Design & Interactive Media | 4 |
| DD125 | Digital Imaging & Graphic Design | 3 |
| DD160 | Digital Design Orientation | 3 |
| DD170 | Programming For Digital Media | 4 |
| | **Credits** | **17** |
| **Winter** | | |
| ART115 | Basic Design I Intro to Elements of Art and Principles of Design | 4 |
| DD130 | 3d Modeling & Environment Design | 3 |
| DD225 | Motion Graphics & Visual Effects | 3 |
| DD171 | Coding For Games & Interactive Medi | 3 |
| WR115 | Fundamentals of Report Writing | 4 |
| | **Credits** | **17** |
| **Spring** | | |
| ART117 | Basic Design III, Intro to 3D Desgn | 4 |
| BA285 | Human Relations in Organizations [2] | 3 |
| DD165 | Web & Interactive Media Design | 3 |
| DD230 | 3d Animation & Motion | 3 |
| DD172 | Coding 3d Motion & Automation | 4 |
| | **Credits** | **17** |
| **Second Year** | | |
| **Fall** | | |
| BA150 | Introduction to Entrepreneurship | 3 |
| DD210 | X R Design & Development | 3 |
| DD215 | Real-Time Motion & Interactivity | 3 |
| MTH65 | Algebra II [5] | 4 |
| | **Credits** | **13** |
| **Winter** | | |
| BA223 | Principles of Marketing | 4 |
| COMM100Z | Introduction to Communication [6] | 4 |
| DD250 | Projects in Digital Media | 3 |
| DD280 | CWE: Digital Design [4] | 4 |
| | **Credits** | **15** |
| **Spring** | | |
| DD297 | Digital Design Capstone | 3 |
| PE231 | Wellness for Life [3] | 3 |
| Specific Elective [4] | | 6 |
| | **Credits** | **12** |
| | **Total Credits** | **91** |

1. A higher writing may be substituted excluding WR241, WR242, WR243, and WR250.
2. BA120, BA285, PSY100, PSY201Z, PSY202Z will satisfy this requirement.
3. PE231, HE250 or three (3) credits of PE185 sport/activity courses will satisfy this requirement.

[4] Specific Electives may be substituted: Any ART, BA,CS/CIS, or DD course not otherwise required within the degree; MTH course higher than MTH65.

[5] MTH95, MTH98, or higher, excluding MTH211, may be substituted for MTH65.

[6] COMM100Z, COMM111Z, COMM218Z, COMM219 will satisfy this requirement.

# COMPUTER SCIENCE, ASSOCIATE OF SCIENCE TRANSFER

Are you fascinated by the thought of fortifying cybersecurity defenses, developing the next viral video game, or leveraging technology to solve real-world problems? If so, you're in the right place! Our Associate of Science Transfer in Computer Science (AST-CS) program is your stepping stone to these exciting career paths and more. Developed within the Oregon Major Transfer Map (MTM) framework, this program ensures you can transfer seamlessly to one of Oregon's public universities to complete a Bachelor of Science in Computer Science. Kick-starting your computer science journey with us allows you to save substantially on tuition costs, enabling you to transfer to your desired university as a junior with just a two-year path to completing your bachelor's degree.

We offer two specialized tracks tailored to your transfer university choices: one for students leaning towards Oregon State University, Portland State University, or the University of Oregon, and another for those eyeing Eastern Oregon University, Southern Oregon University, or Western Oregon University. The best part? You don't have to make this decision until your second year, giving you ample time to explore your interests and consult with advisors. So, why wait? Unlock a world of possibilities in computer science and set the stage for an impactful and fulfilling career.

## GRADUATION REQUIREMENTS

Complete a minimum of 90 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded. Students must have earned a cumulative grade point average of 2.0 and meet the residency requirements at the college.

Students must complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## CORE TRANSFER MAP (CTM) REQUIREMENTS

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

### WRITING

| Code | Title | Credits |
|---|---|---|
| WR121Z | Composition I | 4 |

*Note: Information Literacy is included through embedding the appropriate content and analytical activity in courses that count toward the writing Foundational Requirement.*

### MATHEMATICS

Select **two** of the following courses:

| Code | Title | Credits |
|---|---|---|
| MTH111Z | Pre-Calculus | 4 |
| MTH112Z | Precalculus II: Trigonometry | 4 |
| MTH251Z | Differential Calculus | 4 |
| MTH252Z | Integral Calculus | 4 |

### NATURAL SCIENCES

Select the first **TWO** courses from **ONE** of the following sequences:

**OSU/PSU/UO Track:**

Choose a course sequence in Physics, Chemistry, or Biology.

| Code | Title | Credits |
|---|---|---|
| PH201 | General Physics I: Mechanics | 5 |
| PH202 | General Physics II: Heat, Waves, Relativity | 5 |
| PH203 | Gen Physics III: Elect & Magnetism | 5 |
| OR | | |
| PH211 | General Physics with Calculus I | 5 |
| PH212 | General Physics with Calculus II | 5 |
| PH213 | General Physics with Calculus III | 5 |
| OR | | |
| CHEM221Z | General Chemistry I (must also take CHEM227Z) | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |
| CHEM222Z | General Chemistry II (must also take CHEM228Z) | 4 |
| CHEM228Z | General Chemistry II Laboratory | 1 |
| CHEM223Z | General Chemistry III (must also take CHEM229Z) | 4 |
| CHEM229Z | General Chemistry III Laboratory | 1 |
| OR | | |
| CHEM221Z | General Chemistry I (must also take CHEM227Z) | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |
| BI221Z | Principles of Biology: Cells | 5 |
| BI222Z | Principles of Biology: Organisms | 5 |
| OR | | |
| BI221Z | Principles of Biology: Cells | 5 |
| BI222Z | Principles of Biology: Organisms | 5 |
| BI223Z | Principles of Biology: Ecolo/Evolut | 5 |
| OR | | |
| G201 | Physical Geology I | 4 |
| G202 | Physical Geology II | 4 |
| G203 | Historical Geology | 4 |

**EOU/SOU/WOU Track:**

| Code | Title | Credits |
|---|---|---|
| Any Two Lab Science Courses | | 8-10 |

## ARTS AND LETTERS

**Choose any two (2) courses:**

*Only second year foreign language courses fulfill the Arts and Letters category.*

| Code | Title | Credits |
|---|---|---|
| ART115 | Basic Design I Intro to Elements of Art and Principles of Design | 4 |
| ART116 | Basic Design II, Color Theory | 4 |
| ART117 | Basic Design III, Intro to 3D Desgn | 4 |
| ART131 | Introduction to Drawing I | 3 |
| ART132 | Introduction to Drawing II | 3 |
| ART133 | Introduction to Drawing III | 3 |
| ART191 | Beginning Sculpture | 3 |
| ART192 | Beginning Sculpture | 3 |
| ART204 | History of Western Art: Introduction to Art History | 3 |
| ART205 | History of Western Art: Introduction to Art History | 3 |
| ART206 | History of Western Art: Introduction to Art History | 3 |
| ART244 | Bronze Casting | 3 |
| ART253 | Ceramics I | 3 |
| ART256 | Ceramics II | 3 |
| ART281 | Painting I Beginning | 3 |
| ART282 | Painting II Beginning | 3 |
| ART283 | Painting III Beginning | 3 |
| ART284 | Painting I Intermediate | 3 |
| ART285 | Painting II Intermediate | 3 |
| ART286 | Painting III Intermediate | 3 |
| ASL201 | 2nd Yr American Sign Language I | 4 |
| ASL202 | 2nd Yr American Sign Language II | 4 |
| ASL203 | 2nd Yr American Sign Language III | 4 |
| COMM100Z | Introduction to Communication | 4 |
| COMM111Z | Public Speaking | 4 |
| COMM218Z | Interpersonal Communication | 4 |
| COMM219 | Small Group Discussion | 4 |
| COMM220 | Gender And Communication | 4 |
| ENG104Z | Introduction To Fiction | 4 |
| ENG105Z | Introduction To Drama | 4 |
| ENG106Z | Introduction To Poetry | 4 |
| ENG107 | World Literature | 3 |
| ENG108 | World Literature | 3 |
| ENG109 | World Literature | 3 |
| ENG201 | Shakespeare | 3 |
| ENG204 | Survey of English Literature | 3 |
| ENG205 | Survey of English Literature | 3 |
| ENG206 | Survey of English Literature | 3 |
| ENG253 | Survey of American Literature | 3 |
| ENG254 | Survey of American Literature | 3 |
| ENG255 | Survey of American Literature | 3 |
| HUM204 | World Mythology & Religion | 3 |
| HUM205 | World Mythology & Religion | 3 |
| HUM206 | World Mythology & Religion | 3 |
| MUS101 | Music Fundamentals | 3 |
| MUS111 | Music Theory I | 3 |
| MUS112 | Music Theory II | 3 |
| MUS113 | Music Theory III | 3 |
| MUS201 | Intro to Music and its Literature | 3 |
| MUS202 | Intro to Music and its Literature | 3 |
| MUS203 | Intro to Music and its Literature | 3 |
| MUS205 | Intro to Jazz History | 3 |
| MUS206 | Intro to History of Rock and Roll | 3 |
| MUS211 | Advanced Music Theory I | 3 |
| MUS212 | Advanced Music Theory II | 3 |
| MUS213 | Advanced Music Theory III | 3 |
| PHL101 | Introduction to Philosophy: Philosophical Problems | 3 |
| PHL102 | Ethics | 3 |
| PHL103 | Intro to Logic and Critical Thnkg | 3 |
| PHL211 | Existentialism | 3 |
| SPAN201 | Second Year Spanish | 4 |
| SPAN202 | Second Year Spanish | 4 |
| SPAN203 | Second Year Spanish | 4 |
| WR241 | Imaginative Creative Writing Fiction | 3 |
| WR242 | Imaginative Writing Poetry | 3 |
| WR243 | Imaginative Creative Writing - Play | 3 |

## SOCIAL SCIENCES

**Choose any two (2) courses:**

| Code | Title | Credits |
|---|---|---|
| ANTH201 | Physical Anthropology and Evolution | 3 |
| ANTH202 | Introduction to Archaeology | 3 |
| ANTH203 | Language and Culture | 3 |
| ANTH221 | Intro to Cultural Anthropology | 3 |
| ANTH222 | Cultural Anthropology II | 3 |
| ANTH223 | Cultural Anthropology III | 3 |
| ANTH224 | Intro to Medical Anthropology | 3 |
| ANTH230 | Native North Americans: Oregon | 3 |
| ANTH231 | Native North Americans: PNW | 3 |
| ANTH232 | Native North Americans | 3 |
| CJ101 | Intro to Criminology | 4 |
| ED169 | Overview of Student Special Needs | 3 |
| ED258 | Multicultural Education | 3 |
| GEOG105 | Cultural Geography | 3 |
| HDFS140 | Contemporary American Families | 3 |
| HDFS222 | Understanding Families: Supporting Diversity Disability and Risk | 3 |
| HDFS229 | Child Development PreK - Adolescent | 3 |
| HDFS247 | Child Development 0-8 | 3 |
| HST101 | History of Western Civilization | 3 |
| HST102 | History of Western Civilization | 3 |
| HST103 | History of Western Civilization | 3 |
| HST104 | History of the Middle East | 3 |
| HST195 | History of the Vietnam War | 3 |

| | | |
|---|---|---|
| HST201 | History of the United States | 3 |
| HST202 | History of the United States | 3 |
| HST203 | History of the United States | 3 |
| HST240 | Hist of Oregon and the South Coast | 3 |
| PS201 | American Government: Political Institutions | 3 |
| PS202 | American Government: Policy Issues | 3 |
| PS203 | Local Politics and Government | 3 |
| PS205 | International Relations: US Foreign Policy in the 20th Century | 3 |
| PSY100 | Introduction to Psychology | 4 |
| PSY201Z | Introduction to Psychology I | 4 |
| PSY202Z | Introduction to Psychology II | 4 |
| PSY216 | Social Psychology | 3 |
| PSY228 | Introduction to Social Science Research | 3 |
| PSY231 | Human Sexuality | 3 |
| PSY237 | Life Span Development | 3 |
| PSY239 | Introduction to Abnormal Psychology | 3 |
| PSY243 | Drugs and Behavior | 3 |
| SOC204Z | Introduction to Sociology | 4 |
| SOC205Z | Social Change and Institutions | 4 |
| SOC206Z | Social Problems | 4 |
| SOC208 | Sociology of Sport | 3 |
| SOC210 | Marriage and Family | 3 |
| SOC213 | Racial and Ethnic Relations | 3 |
| SOC218 | Sociology of Gender | 3 |

## CULTURAL LITERACY

**Students are required to complete at least one (1) course from any of the above discipline studies that meets the statewide criteria for cultural literacy. SWOCC offers these courses that satisfy the Cultural Literacy requirement.**

| Code | Title | Credits |
|---|---|---|
| ANTH201 | Physical Anthropology and Evolution | 3 |
| ANTH202 | Introduction to Archaeology | 3 |
| ANTH203 | Language and Culture | 3 |
| ANTH221 | Intro to Cultural Anthropology | 3 |
| ANTH222 | Cultural Anthropology II | 3 |
| ANTH223 | Cultural Anthropology III | 3 |
| ANTH224 | Intro to Medical Anthropology | 3 |
| ANTH230 | Native North Americans: Oregon | 3 |
| ANTH231 | Native North Americans: PNW | 3 |
| ANTH232 | Native North Americans | 3 |
| ED258 | Multicultural Education | 3 |
| ENG107 | World Literature | 3 |
| ENG108 | World Literature | 3 |
| ENG109 | World Literature | 3 |
| GEOG105 | Cultural Geography | 3 |
| HDFS140 | Contemporary American Families | 3 |
| HUM204 | World Mythology & Religion | 3 |
| HUM205 | World Mythology & Religion | 3 |
| HUM206 | World Mythology & Religion | 3 |
| HST104 | History of the Middle East | 3 |
| MUS205 | Intro to Jazz History | 3 |
| MUS206 | Intro to History of Rock and Roll | 3 |
| PSY216 | Social Psychology | 3 |
| PSY231 | Human Sexuality | 3 |
| SOC208 | Sociology of Sport | 3 |
| SOC210 | Marriage and Family | 3 |
| SOC213 | Racial and Ethnic Relations | 3 |
| SOC218 | Sociology of Gender | 3 |
| COMM220 | Gender And Communication | 4 |

# COMPUTER SCIENCE MAJOR TRANSFER MAP (MTM) REQUIREMENTS - EOU/SOU/WOU

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

## COMPUTER SCIENCE SPECIFIC COURSES (TOTAL OF 16 CREDITS):

| Code | Title | Credits |
|---|---|---|
| CS160 | Introduction To Computer Science | 4 |
| CS161 | Computer Science I | 4 |
| CS162 | Computer Science II | 4 |
| CS260 | Data Structures | 4 |

## WRITING SPECIFIC COURSES:

| Code | Title | Credits |
|---|---|---|
| WR122Z | Composition II | 4 |

## COMMUNICATION SPECIFIC COURSES:

| Code | Title | Credits |
|---|---|---|
| COMM111Z | Public Speaking | 4 |

## MATHEMATICS SPECIFIC COURSES:

Complete the following courses (if not completed as part of the CTM):

| Code | Title | Credits |
|---|---|---|
| MTH251Z | Differential Calculus | 4 |
| MTH252Z | Integral Calculus | 4 |

## ELECTIVES

Should Bring total credits to 90.

# COMPUTER SCIENCE MAJOR TRANSFER MAP (MTM) REQUIREMENTS - OSU/PSU/UO

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

## COMPUTER SCIENCE SPECIFIC COURSES (TOTAL OF 20 CREDITS):

| Code | Title | Credits |
|---|---|---|
| CS160 | Introduction To Computer Science | 4 |
| CS161 | Computer Science I | 4 |

| | | |
|---|---|---|
| CS162 | Computer Science II | 4 |
| CS260 | Data Structures | 4 |
| CS205 | System Programming & Architecture | 4 |

### NATURAL SCIENCES

Complete sequence started under the Core Transfer Map (the third class listed for each sequence).

### WRITING SPECIFIC COURSES:

| Code | Title | Credits |
|---|---|---|
| WR227Z | Technical Writing | 4 |

### COMMUNICATION SPECIFIC COURSES:

| Code | Title | Credits |
|---|---|---|
| COMM111Z | Public Speaking | 4 |

### MATHEMATICS SPECIFIC COURSES:

Complete the following courses (if not completed as part of the CTM):

| Code | Title | Credits |
|---|---|---|
| MTH251Z | Differential Calculus | 4 |
| MTH252Z | Integral Calculus | 4 |

### ELECTIVES

Should Bring total credits to 90.

## ELECTIVES

- Students must take college-level Lower Division science courses above 100-Level that would bring total credits to 90.
- All courses must be completed with a grade of 'C' or better.
- A maximum of nine (9) credits of PE185 sport/activity courses may be applied to the AST-CS degree.
- Three (3) credit hours of PE185 sport/activity courses may be granted toward the AST-CS for completion of military basic training. A copy of the military transcript or DD-214 is required.
- Courses numbered 199/299 will qualify as elective credit only.
- A maximum of 45 credits is allowed for basic, developmental, or supportive courses under federal financial aid guidelines.

## STUDENT PROGRAM LEARNING OUTCOMES

### COMPUTER SCIENCE MAJOR OUTCOMES

- Develop software using both structured and object-oriented paradigms that meets the requirements of a written specification;
- Explain the software development life cycle and the specific tools and processes used to create software; **and**
- Design, analyze, and implement algorithms to solve computational problems using various data structures as problem-solving tools. These data structures must include arrays, stacks, queues, linked lists, trees, and hash tables.

### ARTS & LETTERS

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

### CULTURAL LITERACY

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

### 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.

### 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.

### SPEECH/ORAL COMMUNICATION

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

### WRITING

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

### INFORMATION LITERACY

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

### 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.

# RECOMMENDED PROGRAM SCHEDULE

The OSU/PSU/UO and EOU/SOU/WOU tracks both have the same schedule for the first year to allow students time to decide on their preferred transfer university before committing to a track. **Students who are undecided on a transfer university in the second year should complete the OSU/PSU/UO track. Please work with your advisor to determine courses.**

## FIRST YEAR (OSU/PSU/UO AND EOU/SOU/WOU TRACKS)

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| CS160 | Introduction To Computer Science | 4 |
| MTH111Z | Pre-Calculus | 4 |
| WR121Z | Composition I | 4 |
| Arts and Letters Course [1] | | 3-4 |
| | **Credits** | **15-16** |
| **Winter** | | |
| CS161 | Computer Science I | 4 |
| MTH112Z | Precalculus II: Trigonometry | 4 |
| COMM111Z | Public Speaking | 4 |
| Social Science Course [1] | | 3-4 |
| | **Credits** | **15-16** |
| **Spring** | | |
| CS162 | Computer Science II | 4 |
| MTH251Z | Differential Calculus | 4 |
| Arts and Letters Course [1] | | 3-4 |
| Social Science Course [1] | | 3-4 |
| | **Credits** | **14-16** |
| | **Total Credits** | **44-48** |

## SECOND YEAR (OSU/PSU/UO TRACK)

| Course | Title | Credits |
|---|---|---|
| **Second Year** | | |
| **Fall** | | |
| MTH231 | Elements of Discrete Mathematics I | 4 |
| WR227Z | Technical Writing | 4 |
| Elective | | 3-4 |
| PH211<br>or CHEM221Z<br>or BI221Z | General Physics with Calculus I (Science Course) [2]<br>or General Chemistry I<br>or Principles of Biology: Cells | 5 |
| | **Credits** | **16-17** |
| **Winter** | | |
| MTH232 | Elements of Discrete Mathematics II | 4 |
| MTH252 | | 4 |
| CS260 | Data Structures | 4 |
| PH212<br>or CHEM222Z<br>or BI221Z | General Physics with Calculus II (Science Course) [2]<br>or General Chemistry II<br>or Principles of Biology: Cells | 5 |
| | **Credits** | **17** |
| **Spring** | | |
| CS205 | System Programming & Architecture | 4 |
| PH213<br>or CHEM223Z<br>or BI223Z | General Physics with Calculus III (Science Course) [2]<br>or General Chemistry III<br>or Principles of Biology: Ecolo/Evolut | 5 |
| Elective [1] | | 3-4 |
| Elective [1] | | 3-4 |
| | **Credits** | **15-17** |
| | **Total Credits** | **48-51** |

[1] Most universities have specific recommendations for elective courses that will streamline degree completion at their institutions. Consult with an advisor for guidance on selecting electives.

[2] If taking chemistry, concurrent lab enrollment is required.

## SECOND YEAR (EOU/SOU/WOU TRACK)

| Course | Title | Credits |
|---|---|---|
| **Second Year** | | |
| **Fall** | | |
| WR122Z | Composition II | 4 |
| Elective [1] | | 3-4 |
| Elective [1] | | 3-4 |
| Science 1 (any lab science) | | 4-5 |
| | **Credits** | **14-17** |
| **Winter** | | |
| MTH251Z | Differential Calculus | 4 |
| CS260 | Data Structures | 4 |
| Elective [1] | | 3-4 |
| Science 2 (any lab science) | | 4-5 |
| | **Credits** | **15-17** |
| **Spring** | | |
| Elective [1] | | 3-4 |
| Elective [1] | | 3-4 |
| Elective [1] | | 3-4 |
| Elective [1] | | 3-4 |
| | **Credits** | **12-16** |
| | **Total Credits** | **41-50** |

[1] Most universities have specific recommendations for elective courses that will streamline degree completion at their institutions. Consult with an advisor for guidance on selecting electives.

# CRIMINAL JUSTICE, ASSOCIATE OF SCIENCE

The Associate of Science (AS) Criminal Justice degree is designed for students who plan to transfer and complete a bachelor's degree in criminal justice (or a related field) at specific four-year institutions. It may also be earned as a stand-alone degree for current criminal justice employees or for students who plan to apply for work after the completion of the two-year degree. This degree will satisfy most of the lower division requirements of transfer institutions.

The AS Criminal Justice is articulated with Southern Oregon University (SOU) Bachelor of Science degree in Criminology and Criminal Justice. Students following this program of study will have met SOU's lower-division general education requirements, will be assured junior standing within the academic major, and will be eligible for admission to the Criminology and Criminal Justice major. The agreement is based on the evaluation of the rigor and content of the general education and technical courses at both Southwestern and SOU and is subject to a yearly re-evaluation by both schools for continuance.

Students should contact the SOU Department of Criminology and Criminal Justice early in the first year of their AS program to be advised about additional requirements and procedures for admission to the school or program. Students should be aware that if they transfer before completing this degree, their courses will be evaluated individually toward the general education requirements in effect at SOU.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 99 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses in this program must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

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

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program the student will be able to:

- Identify the characteristics of professional integrity and ethical standards for Oregon criminal justice professionals.
- Describe and relate the constitutional rights and responsibilities of citizens, offenders, and victims as they apply to state, federal, and procedural laws.
- Describe the processes and technology used to gather, investigate, manage, and report information in the criminal justice field.
- Identify the legal responsibilities of criminal justice professionals as they relate to cultural diversity and establishing positive community relationships.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process.

Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| BI101 | General Biology [2] | 4 |
| CJ100 | Intro to Criminal Justice | 4 |
| COMM111Z | Public Speaking [1] | 4 |
| WR121Z | Composition I | 4 |
| | **Credits** | **16** |
| **Winter** | | |
| BI102 | General Biology [2] | 4 |
| CJ110 | Intro to Policing | 4 |
| COMM218Z | Interpersonal Communication [1] | 4 |
| WR122Z | Composition II | 4 |
| | **Credits** | **16** |
| **Spring** | | |
| CJ101 | Intro to Criminology | 4 |
| MTH105Z | Math in Society [6] | 4 |
| HE250 | Personal Health [3] | 3 |
| WR227Z | Technical Writing | 4 |
| | **Credits** | **15** |
| **Second Year** | | |
| **Fall** | | |
| ART204 | History of Western Art: Introduction to Art History [4] | 3 |
| BA226Z | Introduction to Business Law | 4 |
| CJ220 | Introduction to Criminal Law | 4 |
| PSY201Z | Introduction to Psychology I | 4 |
| | **Credits** | **15** |
| **Winter** | | |
| CJ226 | Constitutional Law | 4 |
| CJ234 | Corrections | 4 |
| PSY239 | Introduction to Abnormal Psychology | 3 |
| Elective [7] | | 4 |
| | **Credits** | **15** |
| **Spring** | | |
| CJ204 | Cmty Policing in a Diverse Society | 4 |
| CJ247 | Ethics in Criminal Justice | 4 |
| PSY243 | Drugs and Behavior | 3 |
| Specific Elective [5] | | 4 |
| | **Credits** | **15** |
| | **Total Credits** | **92** |

1 COMM111Z, COMM218Z, COMM219 will satisfy this requirement.

2 Math/Science/Computer Science: Refer to Associate of Science (p. 51) Degree Requirement (p. 51) Science/Mathematics/Computer Science course list. At least two of the courses must have labs.

3 HE250, PE231 or three (3) credits of PE185 sport/activity courses will satisfy this requirement.

[4] Arts and Letters: Refer to Associate of Science (p. 51) Degree Requirements.
[5] Specific Electives: Any course in CJ, EM, or HD will satisfy this requirement.
[6] MTH105Z (or MTH105) or higher, excluding MTH211.
[7] Students may take any Lower Division Course above 100-Level.

# CULINARY ARTS, ASSOCIATE OF APPLIED SCIENCE

The Associate of Applied Science (AAS) Culinary Arts program offers chef training (basic and advanced) as well as restaurant management skills. After studying the fundamentals of classical and contemporary cuisine and restaurant procedures, students will develop advanced skills in *garde manger* and *a la carte* cooking. Students have the opportunity to choose between a local or distant externship during their final term in the program. The graduate will have the necessary training to work in a variety of culinary positions such as sous chef, garde manger, kitchen supervisor, and restaurant manager.

Oregon Coast Culinary Institute (OCCI) at Southwestern was granted accreditation by the American Culinary Federation (ACF). This accreditation is the highest level available for initial accreditation by the ACF – the premier professional chefs' organization in North America, focusing its efforts on offering education, apprenticeship and industry certification. With the ACF accreditation, OCCI's graduates can gain the title of certified culinarian upon graduation, along with their associate's degrees.

## ENTRY REQUIREMENTS

For application and fee information, contact OCCI Admissions at 541-888-7309.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 90 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses in this program must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program the student will be able to:

- Demonstrate understanding of safety and sanitation knowledge through application in the kitchen environment in areas of food handling and kitchen equipment use, including knife handling skills.
- Demonstrate food preparation foundations through applications of basic cooking methods in the areas of the hot kitchen, cold kitchen, and pastry.
- Become familiar with regional and international cuisines through a learned appreciation of native products, flavors and techniques.
- Understand key elements of successfully operating food service establishments by utilizing concepts of nutrition, safe and profitable menu and restaurant design, and further applying critical thinking through food costing, purchasing and receiving, and supervisory management concepts.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process.

Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| MTH81 | Applied Mathematics for Culinary Arts [5] | 4 |
| CRT100 | Culinary Foundations I | 5 |
| CRT105 | Culinary Foundation II | 5 |
| CRT110 | Intro to Food and Beverage | 3 |
| CRT115 | Sanitization & Safety for Managers | 3 |
| CRT120 | Professional Presentations [1] | 3 |
| | **Credits** | **23** |
| **Winter** | | |
| CIS120 | Concepts of Computing | 4 |
| CRT125 | Baking & Pastry for Culinary Arts | 5 |
| CRT130 | Menu Planning & Inventory Control | 2 |
| CRT135 | Culinary Nutrition [2] | 3 |
| CRT140 | International Cuisine | 5 |
| | **Credits** | **19** |
| **Spring** | | |
| WR115 | Fundamentals of Report Writing [3] | 4 |
| CRT145 | Restaurant Management & Supervision | 3 |
| CRT150 | American Cuisine | 6 |
| CRT155 | Garde Manger | 6 |
| | **Credits** | **19** |
| **Second Year** | | |
| **Summer** | | |
| CRT160 | Craft of Beverage Service | 3 |
| CRT165 | Restaurant Service | 10 |
| CRT2018 | Culinary Arts Career Planning | 1 |
| HE250 | Personal Health | 3 |
| | **Credits** | **17** |
| **Fall** | | |
| CRT280C1 | Directed Practice: Culinary Arts | 6 |
| | **Credits** | **6** |
| **Winter** | | |
| CRT280C1 | Directed Practice: Culinary Arts | 6 |
| | **Credits** | **6** |
| | **Total Credits** | **90** |

1 COMM111Z, COMM218Z, COMM219 may be substituted for CRT120.
2 FN225 may be substituted for CRT135.
3 A higher writing may be substituted excluding WR241, WR242, WR243, and WR250.
4 PE231, HE250, or three (3) credits of PE185 sport/activity courses will satisfy this requirement.
5 MTH95 or higher, excluding MTH211, may substitute for MTH81.

# CULINARY ARTS, CERTIFICATE OF COMPLETION

The Certificate of Completion Culinary Arts program prepares students for the culinary world by offering chef training (basic and advanced) as well as restaurant management skills without the 17 academic credits. After studying the fundamentals of classical and contemporary cuisine and restaurant procedures, students will develop advanced skills in *garde manger* and *a la carte* cooking. The graduate will have the necessary training to work in a variety of entry-level cooking positions such as prep cook and line cook.

## ENTRY REQUIREMENTS

For application and fee information, contact OCCI Admissions at 541-888-7309.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 72 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses in the program must be completed with a grade of 'C' or better. Twelve (12) credits must be completed at Southwestern before the Certificate of Completion is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program the student will be able to:

- Demonstrate understanding of safe and effective kitchen equipment use and maintenance.
- Demonstrate expert-level operation of professional kitchen tools and equipment.
- Demonstrate knife skills, knife sharpening techniques, handling a steel, and cutting techniques.
- Understand the basic principles for using seasoning and flavoring to create good tasting food.
- Obtain ServSafe Certification.
- Demonstrate food preparation for the following cooking methods - saute, broil, grill, braise, deep and stir fry, and poach.
- Become familiar with regional and international cuisine. Develop an appreciation for native products, herbs, and foods.
- Understand the basic principles of emulsification and all aspects of the elements of cold food pantry.
- Describe and apply the principles of nutrition to maximize nutrient retention in food preparation.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| CRT100 | Culinary Foundations I | 5 |
| CRT105 | Culinary Foundation II | 5 |
| CRT110 | Intro to Food and Beverage | 3 |
| CRT115 | Sanitization & Safety for Managers | 3 |
| | **Credits** | **16** |
| **Winter** | | |
| CRT125 | Baking & Pastry for Culinary Arts | 5 |
| CRT130 | Menu Planning & Inventory Control | 2 |
| CRT135 | Culinary Nutrition [1] | 3 |
| CRT140 | International Cuisine | 5 |
| | **Credits** | **15** |
| **Spring** | | |
| CRT145 | Restaurant Management & Supervision | 3 |
| CRT150 | American Cuisine | 6 |
| CRT155 | Garde Manger | 6 |
| | **Credits** | **15** |
| **Second Year** | | |
| **Summer** | | |
| CRT160 | Craft of Beverage Service | 3 |
| CRT165 | Restaurant Service | 10 |
| CRT2018 | Culinary Arts Career Planning | 1 |
| | **Credits** | **14** |
| **Fall** | | |
| CRT280C1 | Directed Practice: Culinary Arts | 6 |
| | **Credits** | **6** |
| **Winter** | | |
| CRT280C1 | Directed Practice: Culinary Arts | 6 |
| | **Credits** | **6** |
| | **Total Credits** | **72** |

[1] FN225 may be substituted for CRT135.

# CULINARY MANAGEMENT, ASSOCIATE OF APPLIED SCIENCE

The Associate of Applied Science (AAS) Culinary Management program offers chef training (basic and advanced) as well as restaurant management skills. After studying the fundamentals of classical and contemporary cuisine and restaurant procedures, students will develop advanced skills in *garde manger* and *a la carte* cooking. Students will have the opportunity to choose between a local or distant externship during their final term in the program. The graduate will have the necessary training to work in a variety of culinary positions such as sous chef, garde manger, kitchen supervisor, and restaurant manager.

Oregon Coast Culinary Institute (OCCI) at Southwestern was granted accreditation by the American Culinary Federation (ACF). This accreditation is the highest level available for initial accreditation by the ACF — the premier professional chefs' organization in North America -- focusing its efforts on offering education, apprenticeship and industry certification. With the ACF accreditation, OCCI's graduates can apply for the title of certified culinarian upon graduation, along with their associate's degrees. This degree utilizes the same curriculum as the Culinary Arts degree, except that during the final terms the Culinary Management student will take up to an additional 27 academic credits. This will allow the student to transfer into the Bachelor of Applied Science in Hospitality and Tourism at Southern Oregon University. With this degree, the student will transfer to Southern Oregon University with junior standing for registration purposes.

## ENTRY REQUIREMENTS

For application and fee information, contact OCCI Admissions at 541-888-7195.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 106 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses in this program must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program the student will be able to:

- Demonstrate understanding of safe and effective kitchen equipment use and maintenance.
- Demonstrate expert-level operation of professional kitchen tools and equipment.
- Demonstrate knife skills, knife sharpening techniques, handling a steel, and cutting techniques.
- Understand the basic principles for using seasoning and flavoring to create good tasting food.
- Obtain ServSafe Certification.
- Demonstrate food preparation for the following cooking methods - saute, broil, grill, braise, deep and stir fry, and poach.
- Understand basic principles of baking through formulas and measurement, mixing and gluten development and the baking process.
- Prepare a variety of pastry products.
- Become familiar with regional and international cuisine. Develop an appreciation for native products, herbs, and foods.
- Understand the basic principles of emulsification and all aspects of the elements of cold food pantry.
- Utilize concept of menu planning, cost control, purchasing, receiving, quality standards, profit, and staffing costs.
- Describe and apply the principles of nutrition to maximize nutrient retention in food preparation.
- Demonstrate supervisory skills and abilities utilizing critical-thinking skills.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| CRT100 | Culinary Foundations I | 5 |
| CRT105 | Culinary Foundation II | 5 |
| CRT110 | Intro to Food and Beverage | 3 |
| CRT115 | Sanitization & Safety for Managers | 3 |
| CRT120 | Professional Presentations [1] | 3 |
| | **Credits** | **19** |
| **Winter** | | |
| CRT125 | Baking & Pastry for Culinary Arts | 5 |
| CRT130 | Menu Planning & Inventory Control | 2 |
| CRT135 | Culinary Nutrition [2] | 3 |
| CRT140 | International Cuisine | 5 |
| CIS120 | Concepts of Computing | 4 |
| | **Credits** | **19** |
| **Spring** | | |
| CRT145 | Restaurant Management & Supervision | 3 |
| CRT150 | American Cuisine | 6 |
| CRT155 | Garde Manger | 6 |
| | **Credits** | **15** |
| **Second Year** | | |
| **Summer** | | |
| CRT160 | Craft of Beverage Service | 3 |
| CRT165 | Restaurant Service | 10 |
| CRT2018 | Culinary Arts Career Planning | 1 |

| | | |
|---|---|---|
| HE250 | Personal Health | 3 |
| | **Credits** | **17** |
| **Fall** | | |
| BA211Z | Principles of Financial Accounting | 4 |
| CRT280C1 | Directed Practice: Culinary Arts | 6 |
| ECON201Z | Principles of Microeconomics | 4 |
| WR121Z | Composition I | 4 |
| | **Credits** | **18** |
| **Winter** | | |
| CRT280C1 | Directed Practice: Culinary Arts | 6 |
| ECON202Z | Principles of Macroeconomics | 4 |
| STAT243Z | Elementary Statistics I | 4 |
| WR122Z | Composition II | 4 |
| | **Credits** | **18** |
| | **Total Credits** | **106** |

[1] COMM111Z, COMM218Z, COMM219 may be substituted for CRT120.
[2] FN225 may be substituted for CRT135.

# DENTAL ASSISTING, CERTIFICATE OF COMPLETION

## PROGRAM NOTE

The Certificate of Completion Dental Assisting is a three-term certificate that prepares students to meet the requirements to become a dental assistant with expanded functions (EFDA). Upon completion, students are eligible to sit for the Dental Assisting National Board (DANB) exams: National Entry-Level Dental Assisting (NELDA) exam, the Radiation Health and Safety (RHS) exam, and the Infection Control Exam (ICE). The curriculum is based on general dentistry. Students are trained in four-handed chairside assisting techniques to work with general dentists during all phases of examination and treatment. Students also gain experience in the administrative aspects of dentistry such as scheduling, patient communication, charting and billing. Curriculum is derived from identified learning outcomes relevant to the discipline.

Note: Program is not nationally accredited by a healthcare accrediting body. Check with individual states for specific licensure or scope of practice requirements.

Entry Requirements

Students are required to complete the College's placement process to determine skill level and readiness in math and writing. As part of their training program, students must begin with the courses within their skill level as determined by the placement process.

Student entering this program must obtain certification through the American Heart Association in cardiopulmonary resuscitation (CPR) as per the Oregon Health Authority requirements (Chapter 409, Division 30 https://secure.sos.state.or.us/oard/displayChapterRules.action?selectedChapter=34). Additionally, specific immunizations, drug screening, and background checks are required.

For more information go to myLakerLink at https://mylakerlink.socc.edu/ICS/Admissions/Program_Specific_Forms.jnz.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 53 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twelve (12) credits must be completed at Southwestern before the Certificate of Completion is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program the student will be able to:

- Demonstrate an understanding of dental instruments and terminology.
- Demonstrate general chairside skills.
- Demonstrate radiographic proficiency.
- Demonstrate an understanding of legal and ethical issues in dentistry.
- Demonstrate proficiency in infection control techniques.
- Demonstrate occupational safety skills.
- Demonstrate patient education and management skills.
- Demonstrate administrative office skills.
- Demonstrate laboratory skills.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| AH111 | Medical Terminology I | 3 |
| DEN101 | Dental Assisting I [1] | 4 |
| DEN102 | Infection Control | 2 |
| DEN103 | Introduction to Dental Assisting Seminar | 1 |
| DEN114 | Dental Admin & Legal and Ethical | 4 |
| WR115 | Fundamentals of Report Writing [2] | 4 |
| | **Credits** | **18** |
| **Winter** | | |
| DEN104 | Dental & Medical Emergency Mngmt | 2 |
| DEN105 | Dental Materials | 2 |
| DEN107 | Practicum in Dental Assisting I | 4 |
| DEN110 | Dental Radiology | 4 |
| DEN280 | CWE: Dental Assisting | 2 |
| MTH65 | Algebra II [3] | 4 |
| | **Credits** | **18** |
| **Spring** | | |
| DEN109 | Dental Assisting II | 4 |
| DEN111 | Practicum in Dental Assisting II | 4 |
| DEN112 | Chairside Assisting | 2 |
| DEN113 | Expanded Functions Dental Assistant | 2 |
| DEN280 | CWE: Dental Assisting | 2 |
| BA285 | Human Relations in Organizations [4] | 3 |
| | **Credits** | **17** |
| | **Total Credits** | **53** |

1. This course has Oregon Health Authority requirements, such as immunizations, drug screen, criminal background check, American Heart Association CPR/BLS card, OSHA/HIPAA trainings, program policies, etc. Students must meet the Oregon Health Authority requirements during their enrollment in DEN101.
2. WR121Z, WR122Z, WR227Z may be substituted for WR115.
3. MTH95 or higher, excluding MTH211, may be substituted for MTH65.
4. Any PSY or SOC course above a 100-level or BA120 may be substituted.

# DIESEL MECHANIC TECHNOLOGY, ASSOCIATE OF APPLIED SCIENCE

The diesel technician repairs and maintains siesel powered trucks, marine, logging and agricultural equipment and their support systems. This program is designed to prepare students for entry-level positions in diesel service technology. Training is varied to give students a broad undeerstanding and background in different phases of the diesel service industry. It is an industry-specific two year associate degree program. It is designed to prepare individuals to become qualified diesel service technicians. Students learn how to work on many types of diesel equipment including seim-truck, construction, forestry, marine, and agricultural equipment. Students learn about engine fundamentals, machine hydraulics, fuel systems, electrical systems, transmissions, air brakes, undercarriage, final drives, and more.

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| DS110 | Heavy Duty Brakes | 12 |
| MTH80 | Technical Mathematics I [1] | 4 |
| | **Credits** | **16** |
| **Winter** | | |
| DS111 | Heavy Duty Hydraulics | 12 |
| BA285 | Human Relations in Organizations [2] | 3 |
| | **Credits** | **15** |
| **Spring** | | |
| DS112 | Heavy Duty Powertrains And Chassis | 12 |
| WR115 | Fundamentals of Report Writing [3] | 4 |
| | **Credits** | **16** |
| **Second Year** | | |
| **Fall** | | |
| COMM100Z | Introduction to Communication [4] | 4 |
| DS220 | Diesel and Auxiliary Fuel Systems | 12 |
| WLD100 | Cutting Processes | 3 |
| | **Credits** | **19** |
| **Winter** | | |
| DS221 | Diesel Electrical System | 12 |
| PE231 | Wellness for Life [5] | 3 |
| | **Credits** | **15** |
| **Spring** | | |
| DS222 | Diesel Engines and Engine Overhaul | 12 |
| | **Credits** | **12** |
| | **Total Credits** | **93** |

1 MTH95 or higher, excluding 98, 211-213 maybe substituted for MTH80
2 BA120, BA285, PSY100, PSY201Z, PSY202Z, PSY203 will satisfy this requirement.
3 A higher writing may be substituted excluding WR241, WR242, WR243, WR250.
4 COMM111Z, COMM218Z, or COMM219 will satisfy this requirement.
5 PE231, HE250, or three (3) credits of PE185 sport/activity courses will satisfy this requirement.

# ECOLOGICAL ENGINEERING, ASSOCIATE OF SCIENCE

The Associate of Science (AS) in Ecological Engineering program will provide the first two years of the engineering core curriculum for students pursuing ecological engineering as a transfer degree. The coursework is foundational to the upper division biological and ecological engineering courses o and provides the fundamental concepts needed for success and advancement in ecological or sustainable engineering professions. Write the entry requirements for the program.

## STUDENT LEARNING OUTCOMES

- Identify, formulate and solve complex engineering problems by applying principles of engineering, science and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks and meet objectives.
- Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.

## GRADUATION REQUIREMENTS

Complete a minimum of 106 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded. Students must have earned a cumulative grade point average of 2.0 and meet the residency requirements at the college.

Students must complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PREREQUISITES

MTH112Z or placement into MTH251Z

WR90R or placement into WR121Z

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| CHEM221Z | General Chemistry I | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |

| | | |
|---|---|---|
| ENGR111 | Intro to Engineering | 3 |
| ENV235 | Introduction to Soil Science | 4 |
| MTH251Z | Differential Calculus | 4 |
| | **Credits** | **16** |
| **Winter** | | |
| CHEM222Z | General Chemistry II | 4 |
| CHEM228Z | General Chemistry II Laboratory | 1 |
| ENGR112 | Engineering Computation | 4 |
| MTH252Z | Integral Calculus | 4 |
| WR121Z | Composition I | 4 |
| | **Credits** | **17** |
| **Spring** | | |
| CHEM223Z | General Chemistry III | 4 |
| CHEM229Z | General Chemistry III Laboratory | 1 |
| DRFT112 | Computer Assisted Drafting III | 3 |
| MTH264 | Introduction to Matrix Algebra and Power Series | 4 |
| WR227Z | Technical Writing | 4 |
| | **Credits** | **16** |
| **Summer** | | |
| PE231 | Wellness for Life [2] | 3 |
| PHL102 | Ethics | 3 |
| Arts and Letters [1] | | 3 |
| | **Credits** | **9** |
| **Second Year** | | |
| **Fall** | | |
| ECON201Z or ECON202Z | Principles of Microeconomics or Principles of Macroeconomics | 4 |
| PH211 | General Physics with Calculus I | 5 |
| ENGR211 | Statics | 3 |
| MTH254 | Vector Calculus I | 4 |
| | **Credits** | **16** |
| **Winter** | | |
| COMM111Z | Public Speaking | 4 |
| CS161 | Computer Science I [3] | 4 |
| F222A | Elementary Forest Surveying | 4 |
| PH212 | General Physics with Calculus II | 5 |
| | **Credits** | **17** |
| **Spring** | | |
| PH213 | General Physics with Calculus III | 5 |
| ENGR213 | Strength of Materials | 3 |
| MTH256 | Differential Equations | 4 |
| Cultural Diversity [4] | | 3 |
| | **Credits** | **15** |
| | **Total Credits** | **106** |

[1] Arts and Letters Elective can be any course from the approved AAOT arts and letters distribution list.

[2] Students can substitute 3 PE 185 credits for the PE 231 Wellness for Life course.

[3] Transfers to Oregon State are encouraged to become familiar with Python in addition to this CS course

[4] Cultural Diversity elective must be a social science from the approved list.

# ELECTRICAL/COMPUTER ENGINEERING, ASSOCIATE OF SCIENCE

The Associate of Science (AS) in Electrical/Computer Engineering degree will provide fundamental engineering skills in circuit analysis and design, computer programming, engineering problem solving, and an understanding of the professional expectations and ethics of engineering. This program provides a two year foundation for transfer into a four year program in electrical or computer engineering. This degree was designed to transfer to Oregon Institute of Technology's College of Engineering or Oregon State University's College of Engineering. Please consult your advisor for details.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 105 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded. Courses that are developmental in nature (designed to prepare students for college transfer courses) are not applicable to this degree. Students must complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

- Students will demonstrate the ability to solve engineering problems using a variety of mathematical and computational methods.
- Students will learn and apply the required ethics expected in a professional engineering setting.
- Students will gain a fundamental understanding of electrical concepts and will be able to apply analysis techniques to electric circuits of varying complexity.
- Students will gain familiarity with transient analysis of circuits with time varying voltage and/or current sources including Fourier and Laplace analysis.
- Students will design and test electric circuits for practical applications.
- Students will be able to communicate designs and results effectively.
- Students will demonstrate an ability to function in interdisciplinary teams.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

# PRE-PROGRAM COURSES

Students are required to take the following courses *prior to* the program courses, depending on students' college placement information. See advisor for details:

| Code | Title | Credits |
|---|---|---|
| CS160 | Introduction To Computer Science (or higher) | 4 |

# PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| CHEM221Z | General Chemistry I | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |
| ENGR111 | Intro to Engineering | 3 |
| MTH251Z | Differential Calculus | 4 |
| WR121Z | Composition I | 4 |
| | **Credits** | **16** |
| **Winter** | | |
| COMM111Z | Public Speaking | 4 |
| CS161 | Computer Science I [5] | 4 |
| ENGR112 | Engineering Computation | 4 |
| MTH252Z | Integral Calculus | 4 |
| Social Science [1] | | 3 |
| | **Credits** | **19** |
| **Spring** | | |
| BI103 | General Biology [2] | 4 |
| CS162 | Computer Science II | 4 |
| Cultural Diversity [3] | | 3 |
| MTH264 | Introduction to Matrix Algebra and Power Series [6] | 4 |
| WR227Z | Technical Writing | 4 |
| | **Credits** | **19** |
| **Second Year** | | |
| **Fall** | | |
| MTH254 | Vector Calculus I | 4 |
| PH211 | General Physics with Calculus I | 5 |
| CS260 | Data Structures | 4 |
| ENGR201 | Electrical Fundamentals I | 4 |
| | **Credits** | **17** |
| **Winter** | | |
| ENGR202 | Electrical Fundamentals II | 4 |
| MTH255 | Vector Calculus II | 4 |
| PH212 | General Physics with Calculus II | 5 |
| PE231 | Wellness for Life [4] | 3 |
| Arts & Letters [1] | | 3 |
| | **Credits** | **19** |
| **Spring** | | |
| ENGR203 | Electrical Fundamentals III | 4 |
| PH213 | General Physics with Calculus III | 5 |
| MTH256 | Differential Equations | 4 |
| Arts & Letters [1] | | 3 |
| | **Credits** | **16** |
| | **Total Credits** | **106** |

1. Select appropriate course in specific subject area from the course listed in AS Social Science (p. 51) category.
2. BI101, BI102, BI103, BI221Z, BI222Z, BI223Z, BI234, ENV235, F250 may be substituted. Transfer to OIT for Civil Engineering should substitute G201.
3. Cultural Diversity: ANTH224, ANTH231, ANTH232, or HST104 will satisfy this requirement. Must be a Social Science course.
4. PE231, HE250, or three (3) credits of PE185 sport/activity courses will satisfy this requirement.
5. CS161 may require instructor consent to register, talk to your advisor for details.
6. MTH253Z may be substituted for MTH264, students transferring to Oregon Institute of Technology and Portland State University must take MTH253Z. Students transferring to Portland State University are required to take MTH253Z in place of MTH264.

# ELEMENTARY EDUCATION, ASSOCIATE OF ARTS OREGON TRANSFER

The Associate of Arts Oregon Transfer Elementary Education (Elementary Education AAOT) is a prescriptive degree that identifies the optimal and specific set of community college courses students need to take to transfer efficiently into an Elementary Education program at Oregon universities. It is important to note the AAOT may not be the best degree option for all majors. Students should consult advisors in their major areas for educational planning related to required courses in their majors.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 90 credit hours. All courses must be completed with a grade of 'C' or better. Students must have a cumulative GPA of 2.0 at the time the AAOT is awarded. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

Students must successfully complete the following courses from the list of approved general education courses for the AAOT degree and a number of elective credits.

Students may take any college-level course that would bring total credits to 90 quarter hours, including up to 12 credits of college-designated career and technical education (CTE) courses. Note: Some courses are considered career technical courses and have limitations within this degree, they are designated with "CTE" in the Course Description area of this catalog. A maximum of nine (9) credits of PE185 sport/activity courses may be applied to the AAOT degree. All Honors courses may substitute for their equivalent requirements.

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

Students must complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

### TRANSFER

Transfer into an upper division Education baccalaureate degree program at an Oregon University System institution participating the Elementary Education Major Transfer Map (MTM) agreement having met all lower division general education requirements and being granted junior standing for both for the Education major and for university registration purposes.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| GEOG105 | Cultural Geography [3] | 3 |
| PS201 | American Government: Political Institutions | 3 |
| WR121Z | Composition I | 4 |
| Biological Lab Science [1] | | 4 |
| | **Credits** | **14** |
| **Winter** | | |
| HDFS247 | Child Development 0-8 | 3 |
| HST201<br>or HST202<br>or HST203 | History of the United States<br>or History of the United States<br>or History of the United States | 3 |
| WR122Z | Composition II | 4 |
| PSY201Z<br>or PSY202Z | Introduction to Psychology I<br>or Introduction to Psychology II | 4 |
| ED101P | Practicum: Ed Pre-K | 1 |
| | **Credits** | **15** |
| **Spring** | | |
| HE250<br>or PE231 | Personal Health<br>or Wellness for Life | 3 |
| ED101K | Practicum: Grade K-3 | 1 |
| Lab Science [1] | | 4 |
| Elective [5] | | 3 |
| Elective [5] | | 4 |
| | **Credits** | **15** |
| **Second Year** | | |
| **Fall** | | |
| ED169 | Overview of Student Special Needs | 3 |
| ED216 | Introduction To Education | 3 |
| MTH211 | Fundamentals of Elementary Mathematics I [2] | 4 |
| ART131<br>or ART115 | Introduction to Drawing I<br>or Basic Design I Intro to Elements of Art and Principles of Design | 3 |
| Elective [5] | | 3 |
| | **Credits** | **16** |
| **Winter** | | |
| MTH212 | Fundamentals of Elementary Mathematics II | 4 |
| ED258 | Multicultural Education | 3 |
| ED101U | Practicum: Grade 3-6 | 1 |
| Lab Science [1] | | 4 |
| Elective [5] | | 3 |
| | **Credits** | **15** |
| **Spring** | | |
| COMM111Z | Public Speaking | 4 |
| ENG104Z<br>or ENG105Z<br>or ENG106Z | Introduction To Fiction<br>or Introduction To Drama<br>or Introduction To Poetry | 4 |
| MTH213 | Fundamentals of Elementary Mathematics III | 4 |
| Arts & Letters [4] | | 3 |
| Elective [5] | | 3 |
| | **Credits** | **18** |
| | **Total Credits** | **93** |

[1] Science options: 3 sciences are required and must include a biology and an earth science with a lab. Biological science options include:

BI101, BI102, BI103 , BI201, BI202, BI203. Earth science options include: GS104, GS105, GS106, GS107, GS108. Third option includes: PH201, PH202, PH203, CHEM221Z, CHEM222Z, CHEM223Z. (all CHEM courses have a required lab) or any other science listed here.

2 MTH211, MTH212, MTH213 are offered every other year, beginning in 21-22 school year. Consult your advisor for details.

3 ANTH221 may be substituted for GEOG105.

4 Any course from the AAOT Arts & Letters Discipline list (p. 46).

5 Free Electives to reach 90 credits. Recommended Electives: ED135, ED134, ECE150, ED154, ECE151, ECE154, HDFS140, HDFS229, HDFS222 (Up to 12 credit of CTE courses are allowable). See an advisor for specific university requirements.

# STUDENT PROGRAM LEARNING OUTCOMES

## ARTS & LETTERS

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

## CULTURAL LITERACY

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

## 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.

## 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**.**

## 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.

## SPEECH/ORAL COMMUNICATION

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

## WRITING

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

## INFORMATION LITERACY

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

## EDUCATION

- Apply critical thinking to analyze social issues necessary to support the function of public education.
- Describe culturally-responsive pedagogy and integration of social justice into a teaching philosophy.
- Identify the ethics and responsibilities necessary to obtain a professional license in the teaching field and clarify career confirmation.

# EMERGENCY MEDICAL SERVICES, ASSOCIATE OF APPLIED SCIENCE

The emergency services degree offers comprehensive career training tailored for entry-level personnel, from EMTs to fire science students. Students complete a rigorous Emergency Medical Technician (EMT) course in the initial year of study, culminating in eligibility to sit for both state and National Registry EMT exams. This foundational training equips students with essential skills and knowledge vital for emergency medical response in the fire or Emergency Medical Services (EMS) field.

In year two, students delve deeper into advanced EMS techniques, honing their expertise in patient care, crisis management, and emergency response strategies. Successful completion of the curriculum not only prepares graduates for the challenges of pre-hospital and fire science fields but also qualifies them to sit for the National Registry exam to become certified paramedics. Students benefit from hands-on training, simulation exercises, and immersive learning experiences throughout their journey, ensuring they are well-prepared to excel in demanding emergency medical situations. Whether responding to medical emergencies or mitigating fire-related risks, graduates emerge as highly-trained professionals ready to make a meaningful impact in their communities. Ideal for fire and EMT apprentices, fire science majors, or individuals seeking to enhance their skills for industry jobs, the Advanced EMS Education degree provides a pathway for ambitious individuals to advance their careers and meet the evolving demands of the field. With a strong emphasis on practical application and professional development, this program empowers graduates to thrive in the fast-paced and critical realm of emergency medical services.

## ENTRY REQUIREMENTS

The EMT and paramedic sequence portions of the program are the only limited-entry components. Students are required to submit an application to the College and a separate application to the EMS program. The application to the EMS program is for the EMT and paramedic licensure courses only. Students must complete all prerequisites listed in the EMT and paramedic application prior to submission of the application. EMS151 Emergency Medical Technician Part A and EMS152 Emergency Medical Technician Part B must be completed in sequence in the same academic year.

Prior to beginning EMS151, students must possess a BLS Provider card that meets the most recent American Heart Association ECC standards. Certification must remain active throughout the AAS program.

For more information contact the program director, julie.ryan@socc.edu.

Due to continually changing laws and regulations, students may be required to add, modify or delete courses and/or hours for the curriculum to meet current standards. See advisor for current requirements.

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| COMM218Z | Interpersonal Communication [3] | 4 |
| EMS175 | Introduction To Emergency Medical S | 3 |
| EMS270 | Paramedic Preparation | 3 |
| WR121Z | Composition I | 4 |
| Elective | | 3 |
| | **Credits** | **17** |
| **Winter** | | |
| BA285 | Human Relations in Organizations [5] | 3 |
| EMS151 | Emergency Medical Technician Part A | 6 |
| EMS241 | Crisis Intervention & Communication | 3 |
| HE250 | Personal Health [4] | 3 |
| | **Credits** | **15** |
| **Spring** | | |
| MTH98 | Math Literacy | 4 |
| EMS152 | Emergency Medical Technician Part B | 6 |
| EMS169 | EMS Rescue and Transportation | 3 |
| Elective | | 3 |
| | **Credits** | **16** |
| **Second Year** | | |
| **Fall** | | |
| EMS221 | Paramedic Part I Lab | 3 |
| EMS296 | Paramedic Part I | 9 |
| | **Credits** | **12** |
| **Winter** | | |
| EMS222 | Paramedic Part II Lab | 2 |
| EMS239 | Paramedic Part II Clinical | 5 |
| EMS297 | Paramedic Part II | 5 |
| | **Credits** | **12** |
| **Spring** | | |
| EMS223 | Paramedic Parrt III Lab | 2 |
| EMS240 | Paramedic Part III Clinical | 4 |
| EMS280 | Paramedic Field Experience | 3 |
| EMS298 | Paramedic Part III | 3 |
| | **Credits** | **12** |
| **Summer** | | |
| EMS291 | Paramedic Clinical Capstone Practic | 7 |
| | **Credits** | **7** |
| | **Total Credits** | **91** |

3 COMM111Z, COMM218Z, COMM219 will satisfy this requirement.

4 PE231 or three credits of PE185 sport/activity courses WILL meet this requirement.

5 PSY201, PSY202, PSY237 or BA285 will meet this requirement

* EMS153 will substitute for EMS151 and EMS152 sequence

** 3 Elective credits required. Any college-level (100 or 200 numbered) transferrable, non-studio humanities, social science, or science electives. Any Fire Science Courses will also meet this requirement.

# PARAMEDICINE, ASSOCIATE OF APPLIED SCIENCE

The AAS in Paramedicine degree offers comprehensive career training tailored for entry-level personnel, from EMTs to fire science students. Students complete a rigorous Emergency Medical Technician (EMT) course in the initial year of study, culminating in eligibility to sit for both state and National Registry EMT exams. This foundational training equips students with essential skills and knowledge vital for emergency medical response in the fire or Emergency Medical Services (EMS) field.

In year two, students delve deeper into advanced EMS techniques, honing their expertise in patient care, crisis management, and emergency response strategies. Successful completion of the curriculum not only prepares graduates for the challenges of pre-hospital and fire science fields but also qualifies them to sit for the National Registry exam to become certified paramedics. Students benefit from hands-on training, simulation exercises, and immersive learning experiences throughout their journey, ensuring they are well-prepared to excel in demanding emergency medical situations. Whether responding to medical emergencies or mitigating fire-related risks, graduates emerge as highly-trained professionals ready to make a meaningful impact in their communities. Ideal for fire and EMT apprentices, fire science majors, or individuals seeking to enhance their skills for industry jobs, the Advanced EMS Education degree provides a pathway for ambitious individuals to advance their careers and meet the evolving demands of the field. With a strong emphasis on practical application and professional development, this program empowers graduates to thrive in the fast-paced and critical realm of emergency medical services.

This program will provide the knowledge, skills and attitudes necessary for an entry-level paramedic and allow eligibility to sit for national and state testing for emergency medical technician and paramedic. The program meets or exceeds the required skills and knowledge as set forth by the National EMS Education Standards and the Oregon Health Authority DHS-EMS division.

The program is accredited by the Committee on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation

of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP) and the Oregon Health Authority DHS-EMS.

## ENTRY REQUIREMENTS

The EMT and paramedic sequence portions of the program are the only limited-entry components. Students are required to submit an application to the College and a separate application to the EMS program. The application to the EMS program is for the EMT and paramedic licensure courses only. Students must complete all prerequisites listed in the EMT and paramedic application prior to submission of the application. EMS151 Emergency Medical Technician Part A and EMS152 Emergency Medical Technician Part B must be completed in sequence in the same academic year. For more information contact the program director, julie.ryan@socc.edu. Due to continually changing laws and regulations, students may be required to add, modify or delete courses and/or hours for the curriculum to meet current standards. See advisor for current requirements.

For more information contact the program director at Julie.ryan@socc.edu. Due to continually changing laws and regulations, students may be required to add, modify or delete courses and/or hours for the curriculum to meet current standards. See advisor for current requirements.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 101 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded. The completion of the following certificates will be required in order to qualify for graduation: ACLS, PHTLS, PALS or equivalent (these are taught as part of the coursework for this degree).

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Demonstrate personal behaviors consistent with professional and employer expectations of an entry-level paramedic.
- Demonstrate technical proficiency in all of the skills necessary to fulfill the role of an entry-level paramedic.
- Comprehend, apply and evaluate information relative to the role of an entry-level paramedic in the cognitive domain, psycomotor domain and affective domain.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PRE-PROGRAM COURSES

Students are required to take the following courses *prior to* the program courses.

| Code | Title | Credits |
|---|---|---|
| CHEM110 | Foundations of General, Organic, and Biochemistry | 4 |
| or BI101 | General Biology | |

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| EMS175 | Introduction To Emergency Medical S | 3 |
| EMS270 | Paramedic Preparation | 3 |
| WR121Z | Composition I | 4 |
| Elective | | 3 |
| | **Credits** | **13** |
| **Winter** | | |
| BA285 | Human Relations in Organizations | 3 |
| EMS151 | Emergency Medical Technician Part A | 6 |
| EMS241 | Crisis Intervention & Communication | 3 |
| HE250 | Personal Health [4] | 3 |
| or PE231 | or Wellness for Life | |
| | **Credits** | **15** |
| **Spring** | | |
| EMS152 | Emergency Medical Technician Part B | 6 |
| EMS169 | EMS Rescue and Transportation | 3 |
| MTH98 | Math Literacy [2] | 4 |
| Elective | | 3 |
| | **Credits** | **16** |
| **Second Year** | | |
| **Fall** | | |
| EMS221 | Paramedic Part I Lab | 3 |
| EMS296 | Paramedic Part I | 9 |
| | **Credits** | **12** |
| **Winter** | | |
| EMS222 | Paramedic Part II Lab | 2 |
| EMS239 | Paramedic Part II Clinical | 5 |
| EMS297 | Paramedic Part II | 5 |
| | **Credits** | **12** |
| **Spring** | | |
| EMS223 | Paramedic Parrt III Lab | 2 |
| EMS240 | Paramedic Part III Clinical | 4 |
| EMS280 | Paramedic Field Experience | 3 |
| EMS298 | Paramedic Part III | 3 |
| | **Credits** | **12** |
| **Summer** | | |
| EMS291 | Paramedic Clinical Capstone Practic ( • Summer after year two ) | 7 |
| | **Credits** | **7** |
| | **Total Credits** | **87** |

[1] Lab courses must be taken with co-requisite lecture. Courses can be retaken with instructor approval.

[2] MTH95 or higher, excluding MTH211, may be substituted for MTH65
[3] COMM111Z, COMM218Z, COMM219 will satisfy this requirement.
[4] PE185 sport/activity courses **WILL NOT** meet this requirement.
[5] EMT153 series (EMT153, EMT153L, and EMT153F) may be used as a substitute for EMT151 and EMT152 series.

# ENGLISH, ASSOCIATE OF ARTS TRANSFER

An English Literature degree involves in-depth study of various literary genres, periods, and cultural contexts, analyzing novels, plays, poems, and other texts from around the world, written in the English language. Students develop skills in close reading, critical thinking, and effective communication, exploring themes, historical influences, and cultural implications. The program also covers literary theory, criticism, and research methodologies. It promotes a deep understanding of literature and cultivates analytical and communicative skills. Graduates with a degree in English have the capability to analyze others' words, engage in both critical and creative thinking, conduct thorough research, advocate significant viewpoints, and effectively structure their thoughts for diverse formats. Career paths may include writing, teaching, journalism, law, public relations, or any field which involves expert use of the English language.

The AAT (Associate of Arts Transfer) program in English delineates precise course prerequisites for SWOCC students intending to transfer to a four-year university for the pursuit of a Bachelor of Arts in English literature. The AAT in English assists students in selecting courses that optimally equip them for the English Literature program at their selected four-year university.

## PROGRAM STUDENT LEARNING OUTCOMES

At the completion of this curriculum, students should be able to:

• Demonstrate understanding of literary works in context, including the ways texts engage notions of genre, culture, history, class, race, gender, and sexuality.

• Discuss and explicate, orally and in writing, themes, plots, characterization, symbolism and other conventions and practices of literature and literary genres.

• Define and apply vocabulary appropriate to the study of literature and the humanities (e.g., hero, myth, symbols, irony).

• Make connections between literature and their own lives.

• Use a variety of written, verbal, and multimodal forms to respond to and analyze literary texts and contexts

In addition to Program Outcomes, standards have been established for Student Learning Outcomes in General Education Courses in the following categories: Arts and Letters, Cultural Literacy, Mathematics, Science or Computer Science, Social Science, Speech and Oral Communication, Writing, and Information Literacy. Coursework in each of these areas supports student achievement of these outcomes.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 90 credit hours, distributed across general education categories listed below. All courses must be completed with a grade of 'C' or better. Students must have a cumulative GPA of 2.0 at the time the AAOT is awarded. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

Students must successfully complete the following courses from the list of approved general education courses for the English, AAT degree and a number of elective credits.

Students may take any college-level course that would bring total credits to 90 quarter hours, including up to 12 credits of college-designated career and technical education (CTE) courses. Note: Some courses are considered career technical courses and have limitations within this degree, they are designated with "CTE" in the Course Description area of this catalog. A maximum of nine (9) credits of PE185 sport/activity courses may be applied to the AAOT degree.

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

Students must complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## CORE TRANSFER MAP (CTM) REQUIREMENTS

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

### WRITING

**Four (4) credits** of writing are required, so choose one **(1) course** from below. Information Literacy will be included in the writing requirement**:**

| Code | Title | Credits |
|---|---|---|
| WR121Z | Composition I | 4 |

### MATHEMATICS

**One (1) course from:**

Math course may be MTH105 or higher, excluding MTH211.

| Code | Title | Credits |
|---|---|---|
| MTH105Z | Math in Society (or higher) | 4 |

### ARTS AND LETTERS

**Two (2) courses chosen from two (2) or more disciplines:**

| Code | Title | Credits |
|---|---|---|
| ART115 | Basic Design I Intro to Elements of Art and Principles of Design | 4 |
| ART116 | Basic Design II, Color Theory | 4 |
| ART117 | Basic Design III, Intro to 3D Desgn | 4 |
| ART131 | Introduction to Drawing I | 3 |
| ART132 | Introduction to Drawing II | 3 |
| ART133 | Introduction to Drawing III | 3 |
| ART191 | Beginning Sculpture | 3 |
| ART192 | Beginning Sculpture | 3 |

| | | |
|---|---|---|
| ART204 | History of Western Art: Introduction to Art History | 3 |
| ART205 | History of Western Art: Introduction to Art History | 3 |
| ART206 | History of Western Art: Introduction to Art History | 3 |
| ART244 | Bronze Casting | 3 |
| ART253 | Ceramics I | 3 |
| ART256 | Ceramics II | 3 |
| ART281 | Painting I Beginning | 3 |
| ART282 | Painting II Beginning | 3 |
| ART283 | Painting III Beginning | 3 |
| ART284 | Painting I Intermediate | 3 |
| ART285 | Painting II Intermediate | 3 |
| ART286 | Painting III Intermediate | 3 |
| ASL201 | 2nd Yr American Sign Language I | 4 |
| ASL202 | 2nd Yr American Sign Language II | 4 |
| ASL203 | 2nd Yr American Sign Language III | 4 |
| COMM100Z | Introduction to Communication | 4 |
| COMM111Z | Public Speaking | 4 |
| COMM218Z | Interpersonal Communication | 4 |
| COMM219 | Small Group Discussion | 4 |
| COMM220 | Gender And Communication | 4 |
| ENG104Z | Introduction To Fiction | 4 |
| ENG105Z | Introduction To Drama | 4 |
| ENG106Z | Introduction To Poetry | 4 |
| ENG107 | World Literature | 3 |
| ENG108 | World Literature | 3 |
| ENG109 | World Literature | 3 |
| ENG201 | Shakespeare | 3 |
| ENG204 | Survey of English Literature | 3 |
| ENG205 | Survey of English Literature | 3 |
| ENG206 | Survey of English Literature | 3 |
| ENG253 | Survey of American Literature | 3 |
| ENG254 | Survey of American Literature | 3 |
| ENG255 | Survey of American Literature | 3 |
| HUM204 | World Mythology & Religion | 3 |
| HUM205 | World Mythology & Religion | 3 |
| HUM206 | World Mythology & Religion | 3 |
| MUS101 | Music Fundamentals | 3 |
| MUS111 | Music Theory I | 3 |
| MUS112 | Music Theory II | 3 |
| MUS113 | Music Theory III | 3 |
| MUS201 | Intro to Music and its Literature | 3 |
| MUS202 | Intro to Music and its Literature | 3 |
| MUS203 | Intro to Music and its Literature | 3 |
| MUS205 | Intro to Jazz History | 3 |
| MUS206 | Intro to History of Rock and Roll | 3 |
| MUS211 | Advanced Music Theory I | 3 |
| MUS212 | Advanced Music Theory II | 3 |
| MUS213 | Advanced Music Theory III | 3 |
| PHL101 | Introduction to Philosophy: Philosophical Problems | 3 |
| PHL102 | Ethics | 3 |
| PHL103 | Intro to Logic and Critical Thnkg | 3 |
| SPAN201 | Second Year Spanish | 4 |
| SPAN202 | Second Year Spanish | 4 |
| SPAN203 | Second Year Spanish | 4 |
| WR241 | Imaginative Creative Writing Fiction | 3 |
| WR242 | Imaginative Writing Poetry | 3 |
| WR243 | Imaginative Creative Writing - Play | 3 |
| TA141 | Acting I | 3 |
| TA142 | Acting II | 3 |
| TA143 | Acting Iii | 3 |
| TA153 | Rehearsal/Performnc | 3 |

## SOCIAL SCIENCES

**Two (2) courses chosen from two (2) or more disciplines:**

| Code | Title | Credits |
|---|---|---|
| ANTH201 | Physical Anthropology and Evolution | 3 |
| ANTH202 | Introduction to Archaeology | 3 |
| ANTH203 | Language and Culture | 3 |
| ANTH221 | Intro to Cultural Anthropology | 3 |
| ANTH222 | Cultural Anthropology II | 3 |
| ANTH223 | Cultural Anthropology III | 3 |
| ANTH224 | Intro to Medical Anthropology | 3 |
| ANTH230 | Native North Americans: Oregon | 3 |
| ANTH231 | Native North Americans: PNW | 3 |
| ANTH232 | Native North Americans | 3 |
| CJ101 | Intro to Criminology | 4 |
| ECON201Z | Principles of Microeconomics | 4 |
| ECON202Z | Principles of Macroeconomics | 4 |
| ED169 | Overview of Student Special Needs | 3 |
| ED258 | Multicultural Education | 3 |
| GEOG105 | Cultural Geography | 3 |
| HDFS140 | Contemporary American Families | 3 |
| HDFS222 | Understanding Families: Supporting Diversity Disability and Risk | 3 |
| HDFS229 | Child Development PreK - Adolescent | 3 |
| HDFS247 | Child Development 0-8 | 3 |
| HST101 | History of Western Civilization | 3 |
| HST102 | History of Western Civilization | 3 |
| HST103 | History of Western Civilization | 3 |
| HST104 | History of the Middle East | 3 |
| HST195 | History of the Vietnam War | 3 |
| HST201 | History of the United States | 3 |
| HST202 | History of the United States | 3 |
| HST203 | History of the United States | 3 |
| HST240 | Hist of Oregon and the South Coast | 3 |
| PS201 | American Government: Political Institutions | 3 |
| PS202 | American Government: Policy Issues | 3 |
| PS203 | Local Politics and Government | 3 |
| PS205 | International Relations: US Foreign Policy in the 20th Century | 3 |
| PSY100 | Introduction to Psychology | 4 |

| | | |
|---|---|---|
| PSY201Z | Introduction to Psychology I | 4 |
| PSY202Z | Introduction to Psychology II | 4 |
| PSY216 | Social Psychology | 3 |
| PSY228 | Introduction to Social Science Research | 3 |
| PSY231 | Human Sexuality | 3 |
| PSY237 | Life Span Development | 3 |
| PSY239 | Introduction to Abnormal Psychology | 3 |
| PSY243 | Drugs and Behavior | 3 |
| SOC204Z | Introduction to Sociology | 4 |
| SOC205Z | Social Change and Institutions | 4 |
| SOC206Z | Social Problems | 4 |
| SOC208 | Sociology of Sport | 3 |
| SOC210 | Marriage and Family | 3 |
| SOC213 | Racial and Ethnic Relations | 3 |
| SOC218 | Sociology of Gender | 3 |

## NATURAL SCIENCES

**Two (2) courses from two (2) or more disciplines including at least three (3) laboratory courses in biological and/or physical science.**

### Laboratory Courses

| Code | Title | Credits |
|---|---|---|
| BI101 | General Biology | 4 |
| BI102 | General Biology | 4 |
| BI103 | General Biology | 4 |
| BI142 | Habitats: Marine Biology | 4 |
| BI221Z | Principles of Biology: Cells | 5 |
| BI222Z | Principles of Biology: Organisms | 5 |
| BI223Z | Principles of Biology: Ecolo/Evolut | 5 |
| BI231 | Human Anatomy and Physiology I | 4 |
| BI232 | Human Anatomy and Physiology II | 4 |
| BI233 | Human Anatomy and Physiology III | 4 |
| BI234 | Microbiology | 4 |
| CHEM221Z | General Chemistry I (must also take CHEM227Z) | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |
| CHEM222Z | General Chemistry II (must also take CHEM228Z) | 4 |
| CHEM228Z | General Chemistry II Laboratory | 1 |
| CHEM223Z | General Chemistry III (must also take CHEM229Z) | 4 |
| CHEM229Z | General Chemistry III Laboratory | 1 |
| CHEM245 | Organic Chemistry I | 4 |
| CHEM246 | Organic Chemistry II | 4 |
| CHEM247 | Organic Chemistry III | 4 |
| ENV235 | Introduction to Soil Science | 4 |
| G201 | Physical Geology I | 4 |
| G202 | Physical Geology II | 4 |
| G203 | Historical Geology | 4 |
| GS104 | Physical Science | 4 |
| GS105 | Physical Science | 4 |
| GS106 | Introduction to Earth Science | 4 |
| GS107 | Astronomy | 4 |
| GS108 | Oceanography | 4 |
| NR260 | Watershed Processes | 4 |
| PH201 | General Physics I: Mechanics | 5 |
| PH202 | General Physics II: Heat, Waves, Relativity | 5 |
| PH203 | Gen Physics III: Elect & Magnetism | 5 |
| PH211 | General Physics with Calculus I | 5 |
| PH212 | General Physics with Calculus II | 5 |
| PH213 | General Physics with Calculus III | 5 |

### Non-Laboratory Courses

| Code | Title | Credits |
|---|---|---|
| BI140 | Practical Ecology | 3 |
| BI149 | Introduction to Human Genetics | 3 |
| CHEM110 | Foundations of General, Organic, and Biochemistry | 4 |
| CS160 | Introduction To Computer Science | 4 |
| CS161 | Computer Science I | 4 |
| CS162 | Computer Science II | 4 |
| CS260 | Data Structures | 4 |
| ENV110 | Introduction Environmental Science | 3 |
| G221 | General Geology | 3 |
| G246 | Geological Hazards And Natural Catastrophes | 3 |
| MTH105Z | Math in Society | 4 |
| MTH111Z | Pre-Calculus | 4 |
| MTH112Z | Precalculus II: Trigonometry | 4 |
| MTH212 | Fundamentals of Elementary Mathematics II | 4 |
| MTH213 | Fundamentals of Elementary Mathematics III | 4 |
| MTH231 | Elements of Discrete Mathematics I | 4 |
| MTH232 | Elements of Discrete Mathematics II | 4 |
| MTH241 | Calculus for Bus and Soc Science I | 4 |
| MTH242 | Calculus for Bus and Soc Science II | 4 |
| STAT243Z | Elementary Statistics I | 4 |
| MTH244 | Probability & Statistics II | 4 |
| MTH251Z | Differential Calculus | 4 |
| MTH252Z | Integral Calculus | 4 |
| MTH253Z | Calculus: Sequences and Series | 4 |
| MTH254 | Vector Calculus I | 4 |
| MTH255 | Vector Calculus II | 4 |
| MTH256 | Differential Equations | 4 |
| MTH260 | Matrix Methods and Linear Algebra | 4 |
| MTH264 | Introduction to Matrix Algebra and Power Series | 4 |

## CULTURAL LITERACY

**Students are required to complete at least one (1) course from any of the below discipline studies that meets the statewide criteria for cultural literacy. SWOCC offers these courses that satisfy the Cultural Literacy requirement.**

| Code | Title | Credits |
|---|---|---|
| ANTH201 | Physical Anthropology and Evolution | 3 |
| ANTH202 | Introduction to Archaeology | 3 |
| ANTH203 | Language and Culture | 3 |
| ANTH221 | Intro to Cultural Anthropology | 3 |
| ANTH222 | Cultural Anthropology II | 3 |
| ANTH223 | Cultural Anthropology III | 3 |

| | | |
|---|---|---|
| ANTH224 | Intro to Medical Anthropology | 3 |
| ANTH230 | Native North Americans: Oregon | 3 |
| ANTH231 | Native North Americans: PNW | 3 |
| ANTH232 | Native North Americans | 3 |
| COMM220 | Gender And Communication | 4 |
| ED258 | Multicultural Education | 3 |
| ENG107 | World Literature | 3 |
| ENG108 | World Literature | 3 |
| ENG109 | World Literature | 3 |
| GEOG105 | Cultural Geography | 3 |
| HDFS140 | Contemporary American Families | 3 |
| HUM204 | World Mythology & Religion | 3 |
| HUM205 | World Mythology & Religion | 3 |
| HUM206 | World Mythology & Religion | 3 |
| HST104 | History of the Middle East | 3 |
| MUS205 | Intro to Jazz History | 3 |
| MUS206 | Intro to History of Rock and Roll | 3 |
| PSY216 | Social Psychology | 3 |
| PSY231 | Human Sexuality | 3 |
| SOC208 | Sociology of Sport | 3 |
| SOC210 | Marriage and Family | 3 |
| SOC213 | Racial and Ethnic Relations | 3 |
| SOC218 | Sociology of Gender | 3 |

# MAJOR TRANSFER MAP (MTM) REQUIREMENTS

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

## WRITING

| Code | Title | Credits |
|---|---|---|
| WR122Z | Composition II | 4 |

# ENGLISH LITERATURE COURSES

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

| Code | Title | Credits |
|---|---|---|
| Any 200 Level English Course | | 3-4 |
| English 200 Level | | 3-4 |

# SECOND LANGUAGE REQUIREMENT

All courses must be completed with a grade of 'C' or better. Second Language degree requirement varies depending on which university the student plans on attending. The MTM states 4-24 Second Language credits can be used. Not all university transfer degrees require a second language. Please speak with an advisor before selecting a course.

| Code | Title | Credits |
|---|---|---|
| SPAN101 | First Year Spanish | 4 |
| SPAN102 | First Year Spanish | 4 |
| SPAN103 | First Year Spanish | 4 |

# ELECTIVES

- Students may take any Lower Division college-level course above 100-Level that would bring total credits to 90 quarter hours including up to 12 credits of college designated Career and Technical Education courses.
- All courses must be completed with a grade of 'C' or better.
- Courses numbered 199/299 will qualify as elective credit only.

## SUPPORTIVE COURSES

*Note: The college has determined that the following supportive courses may be necessary to assist students to successfully complete their program; they count as electives only.*

| Code | Title | Credits |
|---|---|---|
| CIS120 | Concepts of Computing | 4 |
| CIS125W | Word Processing Applications Microsoft | 3 |
| HD100 | College Success and Survival | 3 |
| HD102 | College Nuts and Bolts | 1 |
| HD111 | Math Success | 2 |
| HD112 | Study Skills | 3 |
| HD113 | Stop Test Anxiety Now | 1 |
| HD152 | Stress Management | 2 |
| HD208 | Career/Life Plan | 3 |

*A maximum of 45 credits is allowed for basic, developmental, or supportive courses under federal financial aid guidelines.*

# PROPOSED PROGRAM SCHEDULE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| MTH105Z | Math in Society | 4 |
| SPAN101 | First Year Spanish [1] | 4 |
| WR121Z | Composition I | 4 |
| 200-Level Literature Course [2] | | 3 |
| | **Credits** | **15** |
| **Winter** | | |
| BI102 | General Biology (or another Lab Science from AAOT list) | 4-5 |
| WR122Z | Composition II | 4 |
| SPAN102 | First Year Spanish [1] | 4 |
| 200-Level Literature Course [2] | | 3 |
| | **Credits** | **15-16** |
| **Spring** | | |
| BI103 | General Biology | 4 |
| HE250 | Personal Health (Health, Wellness, and Fitness Course from the AAOT list) | 3 |
| SPAN103 | First Year Spanish [1] | 4 |
| Social Science [4] | | 3-4 |
| Cultural Literacy [5] | | 3 |
| | **Credits** | **17-18** |

| | | |
|---|---|---|
| **Second Year** | | |
| **Fall** | | |
| HST101 | History of Western Civilization | 3 |
| PHL101 | Introduction to Philosophy: Philosophical Problems | 3 |
| Elective - See elective recommendations below [6] | | 3 |
| Natural Science Course [7] | | 5 |
| Social Science Course [4] | | 3 |
| | **Credits** | **17** |
| **Winter** | | |
| ENG201 | Shakespeare | 3 |
| HST102 | History of Western Civilization | 3 |
| Elective - University requirement or elective(s) needed to reach 90 credits [6] | | 5 |
| Natural Sciences [7] | | 5 |
| | **Credits** | **16** |
| **Spring** | | |
| COMM111Z | Public Speaking | 4 |
| HST103 | History of Western Civilization | 3 |
| Elective - University requirement or elective(s) needed to reach 90 credits [6] | | 8 |
| | **Credits** | **15** |
| | **Total Credits** | **95-97** |

1 Two years of a college-level world language is required for a Bachelor of Arts

2 200-level literature courses from AAOT course list. British or American Literature Sequence: ENG204, ENG205 , ENG206, ENG253 , ENG254 , ENG255 . Other AAOT English Literature distribution courses: ENG201.

3 AAOT science requires four (4) courses from two (2) or more disciplines including at least three (3) laboratory courses

4 ANTH 201, ANTH 202, ANTH 203,ANTH 221, ANTH 222, ANTH223, SOC204Z, PSY201Z, or HST201

5 ENG 107, ENG 108, ENG 109, or HUM 204

6 University requirement or elective(s) needed to reach 90 credits

7 BI 221Z or CHEM 221Z & CHEM227Z

8 BI 222Z or CHEM 222Z & CHEM228Z

# ENVIRONMENTAL ENGINEERING, ASSOCIATE OF SCIENCE

The Associate of Science (AS) in Environmental Engineering degree will provide fundamental engineering skills. Environmental engineers manage our environment for the benefit of humanity and nature. They provide engineering solutions to problems with our land, air and water resources. In both public and private practice, environmental engineers work in interdisciplinary teams to manage environmental problems through application of scientific, engineering, and social skills. This degree was designed to transfer to Oregon State University's College of Engineering. Please consult your advisor for details.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 107 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded. Courses that are developmental in nature (designed to prepare students for college transfer courses) are not applicable to this degree. Students must complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| CHEM221Z | General Chemistry I | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |
| ENGR111 | Intro to Engineering | 3 |
| MTH251Z | Differential Calculus | 4 |
| WR121Z | Composition I | 4 |
| | **Credits** | **16** |
| **Winter** | | |
| COMM111Z | Public Speaking | 4 |
| CHEM222Z | General Chemistry II | 4 |
| CHEM228Z | General Chemistry II Laboratory | 1 |
| ENGR112 | Engineering Computation | 4 |
| MTH252Z | Integral Calculus | 4 |
| | **Credits** | **17** |

| | | |
|---|---|---|
| **Spring** | | |
| CHEM223Z | General Chemistry III | 4 |
| CHEM229Z | General Chemistry III Laboratory | 1 |
| DRFT110<br>or DRFT112 | Computer Assisted Drafting I<br>or Computer Assisted Drafting III | 3 |
| MTH264<br>or MTH260 | Introduction to Matrix Algebra and Power Series [1]<br>or Matrix Methods and Linear Algebra | 4 |
| WR227Z | Technical Writing | 4 |
| | **Credits** | **16** |
| **Summer** | | |
| PE231 | Wellness for Life | 3 |
| Social Science [4] | | 3 |
| Arts & Letters [4] | | 3 |
| Social Science Cultural Diversity [5] | | 3 |
| | **Credits** | **12** |
| **Second Year** | | |
| **Fall** | | |
| CHEM245 | Organic Chemistry I | 4 |
| ENGR211 | Statics | 3 |
| MTH254 | Vector Calculus I | 4 |
| PH211 | General Physics with Calculus I | 5 |
| | **Credits** | **16** |
| **Winter** | | |
| CHEM246<br>or MTH255 | Organic Chemistry II [2]<br>or Vector Calculus II | 4 |
| ENGR212 | Dynamics | 3 |
| PH212 | General Physics with Calculus II | 5 |
| Arts & Letters [4] | | 3 |
| | **Credits** | **15** |
| **Spring** | | |
| CHEM247<br>or BI234 | Organic Chemistry III [3]<br>or Microbiology | 4 |
| ENGR213 | Strength of Materials | 3 |
| MTH256 | Differential Equations | 4 |
| PH213 | General Physics with Calculus III | 5 |
| | **Credits** | **16** |
| | **Total Credits** | **108** |

1. Students transferring to Portland State University are required to take MTH260 in place of MTH264.
2. Students transferring to Portland State University are required to take MTH255 in place of CHEM246.
3. Students transferring to Portland State University are required to take BI234 in place of CHEM247.
4. Select course from specific subject area from the AS course list.
5. Choose from the following: ANTH201, ANTH202, ANTH203, ANTH221, ANTH222, ANTH223, ANTH224, ANTH230, ANTH231, ANTH232. ED258, HDFS140, HST140, PSY216, PSY231, SOC208, SOC213.

# FIRE SCIENCE, ASSOCIATE OF APPLIED SCIENCE

The Associate of Applied Science (AAS) Fire Science program includes the necessary general education and specialized fire and emergency services coursework to prepare students for careers in the fire service. Students will learn fundamental firefighting skills such as utilizing protective clothing and equipment, conducting search and rescue operations, advancing hoselines, and operating fire streams. Students will also be challenged with the academic aspect of firefighting in subjects including building construction, fire behavior, strategies and tactics, and fire prevention. With the knowledge, skills, and abilities gained from this program of study, students will be aptly prepared for a career in the fire service.

Students are required to complete internship credits as part of their degree plan. During this internship, students become affiliated with a fire department and gain valuable on-the-job experience while working with professional firefighters. Students have the opportunity to build a professional network, learn through practical experience (i.e. training, emergency response, etc.), and receive valuable leadership and guidance. It is highly recommended that students complete their internship credits locally, while in school to maximize the experience.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 90 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Demonstrate technical proficiency in fundamental firefighting skills.
- Apply critical-thinking and decision-making skills relevant to fire service scenarios.
- Demonstrate behaviors consistent with professional and employer expectations.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| FS100 | Principles of Emergency Services | 4 |
| FS105 | Firefighter Fundamentals I | 2 |
| MTH65 | Algebra II [1] | 4 |

| | | |
|---|---|---|
| Communication [3] | | 4 |
| | **Credits** | **14** |
| **Winter** | | |
| FS110 | Firefighter Fundamentals II | 2 |
| FS120 | Building Const Related to Fire Svc | 3 |
| FS121 | Fire Behavior and Combustion | 3 |
| FS131 | Wildland Firefighter Type 2 | 3 |
| FS180 | Internship: Fire Science [7] | 1 |
| GS105 | Physical Science [8] | 4 |
| | **Credits** | **16** |
| **Spring** | | |
| FS115 | Firefighter Fundamentals III | 2 |
| FS125 | Principles of Fire and Emergency S | 4 |
| FS180 | Internship: Fire Science [7] | 1 |
| Health, Wellness, and Fitness [4] | | 3 |
| Human Relations [5] | | 3 |
| Specific Elective | | 3 |
| | **Credits** | **16** |
| **Second Year** | | |
| **Fall** | | |
| FS200 | Strategy and Tactics | 3 |
| FS231 | Fire Protection Hydraulics and Wate | 3 |
| FS280 | CWE: Fire Science [7] | 1 |
| WR121Z | Composition I [2] | 4 |
| Specific Elective [6] | | 4 |
| | **Credits** | **15** |
| **Winter** | | |
| EMS151 | Emergency Medical Technician Part A | 6 |
| FS220 | Fire Protection Systems | 3 |
| FS280 | CWE: Fire Science [7] | 1 |
| Specific Elective [6] | | 4 |
| | **Credits** | **14** |
| **Spring** | | |
| BA120 | Leadership Development [9] | 3 |
| EMS152 | Emergency Medical Technician Part B | 6 |
| FS205 | Fire Prevention | 3 |
| FS215 | Legal Aspects of Emergency Services | 2 |
| Specific Elective [6] | | 2 |
| | **Credits** | **16** |
| | **Total Credits** | **91** |

1. MTH95 or higher may be substituted for MTH65, excluding MTH81 and MTH211 .
2. A higher writing may be substituted excluding WR241, WR242, WR243, WR250.
3. COMM111Z, COMM219, COMM218Z recommended. May substitute COMM100Z or COMM220.
4. PE231 recommended. May substitute HE250 or three (3) credits of PE185 sport/activity courses.
5. Human Relations: PSY201Z, PSY202Z, BA120, BA285.
6. Specific Elective: Any FS, EMT, F, BA and/or CJ course not already required for the degree to fulfill the specific elective requirement.
7. Call 541-888-7405 to schedule with Internship Coordinator one month prior to term.
8. May substitute CHEM110, BI231, CHEM221Z, PH201, ENGR211, STAT243Z, G246, GS1
9. May substitute FS141, CJ203, BA285, COMM219.

# FIRE SCIENCE, ASSOCIATE OF SCIENCE

The Associate of Science (AS) in Fire Science is designed to meet the needs of students who plan on pursuing a bachelor's or higher degree at a university. Fire departments and private agencies are increasingly expecting candidates for administrator and supervisor positions to have higher levels of education. Fire Science coursework is developed using model curriculum from the United States Fire Administration's Fire and Emergency Services Higher Education initiative. Students will study relevant topics including building construction, firefighting strategies and tactics, fire prevention, and fire protection systems.

This program is designed to transfer to Eastern Oregon Unviersity's Fire Services Administration program.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 90 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Apply critical-thinking and decision-making skills relevant to fire service scenarios.
- Apply core fire science knowledge to prevention, training, operational, and administrative situations relevant to the fire service.
- Demonstrate effective verbal and nonverbal communication in emergency and nonemergency situations including, but not limited to: communicating on the fireground, drafting administrative documents, handling disciplinary issues, completing incident reports, and conducting public education.
- Complete general education requirements in preparation to transfer to a four-year degree program.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

# PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| FS100 | Principles of Emergency Services | 4 |
| MTH105Z | Math in Society [1] | 4 |
| WR121Z | Composition I | 4 |
| Science, Mathematics, or Computer Science [3] | | 4 |
| | **Credits** | **16** |
| **Winter** | | |
| FS120 | Building Const Related to Fire Svc | 3 |
| FS121 | Fire Behavior and Combustion | 3 |
| STAT243Z | Elementary Statistics I | 4 |
| WR122Z<br>or WR227Z | Composition II<br>or Technical Writing | 4 |
| | **Credits** | **14** |
| **Spring** | | |
| FS125 | Principles of Fire and Emergency S | 4 |
| Communication [5] | | 3 |
| Social Science [3] | | 3 |
| Arts and Letters [3] | | 3 |
| Arts and Letters [3] | | 3 |
| | **Credits** | **16** |
| **Second Year** | | |
| **Fall** | | |
| FS200 | Strategy and Tactics | 3 |
| FS205 | Fire Prevention | 3 |
| FS231 | Fire Protection Hydraulics and Wate | 3 |
| Social Science [3] | | 3 |
| Elective [4] | | 3 |
| | **Credits** | **15** |
| **Winter** | | |
| FS220 | Fire Protection Systems | 3 |
| Arts and Letters [3] | | 3 |
| Elective [4] | | 3 |
| Social Science [3] | | 3 |
| Health, Wellness, and Fitness [2] | | 3 |
| | **Credits** | **15** |
| **Spring** | | |
| FS215 | Legal Aspects of Emergency Services | 2 |
| Science, Mathematics, or Computer Science [3] | | 4 |
| Specific Elective [6] | | 4 |
| Elective [4] | | 4 |
| | **Credits** | **14** |
| | **Total Credits** | **90** |

[1] A higher math may be substituted excluding MTH211.

[2] PE231, HE250, or three (3) credits of PE185 sport/activity courses will satisfy this requirement.

[3] Select appropriate course in specific subject area from the course listed in Associate of Science (p. 51).

[4] Any Lower Division Course 100-level or higher may be used as an elective.

[5] COMM111Z, COMM218Z, COMM219 will satisfy this requirement.

[6] Any FS, EMT, CJ, F, or BA course not already counted toward the degree will satisfy this requirement, to make the total of 90 credits.

# FOREST ENGINEERING, ASSOCIATE OF SCIENCE

Forest engineering prepares graduates to plan and implement complex forestry and natural resource operations that help meet global demands for wood products while sustaining water, habitat, and other forest resources.

This degree was designed to transfer to Oregon State University's College of Forestry. Other transfer options may be available, consult your advisor for details.

The forestry field is projected to have many career opportunities coming up in the next decade as many forestry and natural resources professionals retire in the next few years. Students who enjoy working outdoors and want to have a career that focuses on managing our valuable forest lands to conserve and protect resources as well as produce valuable products for society should consider this degree.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 98 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

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

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Use techniques, skills, and modern engineering tools necessary for engineering practice.
- Develop engineered forest operations that achieve silvicultural objectives
- Develop engineered forest operations that appropriately protect soil and water resources.
- Survey and measure land and forest resources so that the engineering tasks associated with forest operations can be effectively completed.
- Provide designs and manage the forest transportation in a way that meets the needs of forest land management with societally acceptable environmental impact.
- Plan and manage safe, economic and environmentally sound forest operations.
- Incorporate long term forest land management and operational planning in an environmental and economic context into forest operation plans.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process.

Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PRE-PROGRAM COURSE

| Code | Title | Credits |
|---|---|---|
| MTH251Z | Differential Calculus | 4 |
| MTH252Z | Integral Calculus | 4 |
| MTH254 | Vector Calculus I | 4 |

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGR111 | Intro to Engineering | 3 |
| ENV235 | Introduction to Soil Science | 4 |
| F111 | Introduction to Forestry | 3 |
| PH211 | General Physics with Calculus I | 5 |
| | **Credits** | **15** |
| **Winter** | | |
| ENGR112 | Engineering Computation | 4 |
| F222A | Elementary Forest Surveying | 4 |
| F250 | Forest Biology | 4 |
| PH212 | General Physics with Calculus II | 5 |
| | **Credits** | **17** |
| **Spring** | | |
| F241 | Dendrology | 5 |
| PE231 | Wellness for Life | 3 |
| STAT243Z | Elementary Statistics I | 4 |
| Difference, Power, and Discrimination [1] | | 3 |
| | **Credits** | **15** |
| **Second Year** | | |
| **Fall** | | |
| CHEM221Z | General Chemistry I | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |
| ENGR211 | Statics | 3 |
| GEOG265 | Intro to Geographical Info Systems | 4 |
| DRFT110<br>or DRFT112 | Computer Assisted Drafting I<br>or Computer Assisted Drafting III | 3 |
| | **Credits** | **15** |
| **Winter** | | |
| COMM111Z | Public Speaking | 4 |
| ENGR212 | Dynamics | 3 |
| MTH256 | Differential Equations [5] | 4 |
| WR121Z | Composition I | 4 |
| Literature and Arts [2] | | 3 |
| | **Credits** | **18** |
| **Spring** | | |
| ECON201Z | Principles of Microeconomics | 4 |
| ENGR213 | Strength of Materials | 3 |
| WR227Z | Technical Writing | 4 |
| Cultural Diversity [3] | | 3 |

| | |
|---|---|
| Western Culture [4] | 3 |
| **Credits** | **17** |
| **Total Credits** | **97** |

1 Difference, Power, and Discrimination: HST201, HST202, HST203, SOC206Z , SOC213

2 Literature and the Arts:ART204, ART205, ART206, ENG104Z, ENG105Z, ENG106Z, ENG107, ENG108, ENG109, ENG201, ENG204, ENG205, ENG206, ENG262, MUS201, MUS202, MUS203.

3 Cultural Diversity: ANTH224, ANTH230, ANTH231, ANTH232, HST104, HUM204, HUM205, HUM206

4 Western Culture:ART204, ART205, ART206, ENG107, ENG108, ENG109, ENG201, ENG204, ENG205, ENG206, HST101, HST102, HST103, HST201, HST202, HST203, MUS201, MUS202, MUS203, PHL101, PHL102.

5 MTH256 or higher will satisfy this requirement.

6 May be substituted with MTH244.

* At least two courses must be chosen from the Arts and Letters section from the AS course list (p. 51) to meet the above requirements.

# FOREST TECHNOLOGY, CERTIFICATE OF COMPLETION

The Certificate of Completion Forest Technology can be completed within one year and is designed to prepare students for entry-level employment in the forestry field in supervised positions such as forester aides, surveyor assistant, measurement technician, and field mapping aide.

The forestry field is projected to have many career opportunities coming up in the next decade as many forestry and natural resources professionals retire in the next few years. Students who enjoy working outdoors and want to have a career that focuses on managing our valuable forest lands to conserve and protect resources as well as produce valuable products for society should consider this degree.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 45 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twelve (12) credits must be completed at Southwestern before the Certificate of Completion is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Discuss important forest management challenges and potential solutions.
- Discuss characteristics of regional forests, field techniques, and management practices.
- Demonstrate basic skills in forest surveying, remote sensing, geographic information systems, and spreadsheet applications.

## PROGRAM NOTES

Students who are receiving Financial Aid Funds and wishing to receive the Forest Technology Certificate, in addition to the AS Forestry Emphasis, will need to petition for a dual major.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **Fall** | | |
| ENV235 | Introduction to Soil Science | 4 |
| F111 | Introduction to Forestry | 3 |
| GEOG265 | Intro to Geographical Info Systems | 4 |
| WR115 | Fundamentals of Report Writing [1] | 4 |
| | **Credits** | **15** |
| **Winter** | | |
| BA169Z | Data Analysis Using Microsoft Excel | 4 |
| F222A | Elementary Forest Surveying | 4 |
| F250<br>or NR260<br>or F251 | Forest Biology [5]<br>or Watershed Processes<br>or Recreation Resource Management | 4 |
| MTH111Z | Pre-Calculus [2] | 4 |
| | **Credits** | **16** |
| **Spring** | | |
| BA285 | Human Relations in Organizations [3] | 3 |
| F241 | Dendrology | 5 |
| F280 | CWE: Forestry [4] | 3 |
| STAT243Z | Elementary Statistics I | 4 |
| | **Credits** | **15** |
| | **Total Credits** | **46** |

1. A higher writing may be substituted excluding WR241, WR242, WR243, or WR250.
2. A higher, excluding MTH212, MTH211, STAT243Z and MTH213, will satisfy this requirement.
3. BA120, BA285, PSY100, PSY201Z, PSY202Z, will satisfy this requirement.
4. Call 541-888-7405 to schedule with Internship Coordinator one month prior to term. FE209 may be substituted.
5. NR260 or F251may be substituted. NR260 and F251 is only offered in Spring term. Talk to your advisor for details.

# FORESTRY MANAGEMENT, ASSOCIATE OF SCIENCE

The Forestry Management Associate of Science (AS) degree provides students with an introduction to the technical and scientific knowledge related to the field of forestry and forest management. This set of classes satisfies the requirements for an AS degree and also meets the lower division requirements at Oregon State University (OSU) for a Bachelor of Science in Forestry. There is a signed articulation agreement with the Forestry Department at Oregon State University that allows students who complete this AS degree and two additional courses to enter OSU as a junior in the forestry program.

The management option focuses on the biological, ecological and economic characteristics of forests and society. Students gain knowledge and experience in active forest management, including monitoring the health of forests and natural resources, maintaining species inventory, timber cruising, planning and executing harvesting operations, focusing on conservation and sustainability of natural resources such as wildlife, and protecting the forest from harmful weeds, insects, disease, erosion and fire.

This degree was designed to transfer to Oregon State University's College of Forestry. Other transfer options may be available, consult your advisor for details.

The forestry field is projected to have many career opportunities coming up in the next decade as many forestry and natural resources professionals retire in the next few years. Students who enjoy working outdoors and want to have a career that focuses on managing our valuable forest lands to conserve and protect resources as well as produce valuable products for society should consider this degree.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 90 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

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

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Integrate technical field skills with analytical skills to identify important forest management challenges and identify potential solutions for these problems.
- Explain and discuss important current issues, and social and political components of forest management in the United States and other countries.
- Demonstrate basic skills in forest surveying, recreation management, soil science, remote sensing, geographic information systems, and spreadsheet applications.
- Identify important tree species in the Pacific Northwest.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PRE-PROGRAM REQUIREMENTS

Placement into MTH241 or completion of prerequisites.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| BI221Z | Principles of Biology: Cells | 5 |
| COMM111Z | Public Speaking | 4 |
| F111 | Introduction to Forestry [6] | 3 |
| PE231 | Wellness for Life | 3 |
| | **Credits** | **15** |
| **Winter** | | |
| BA169Z | Data Analysis Using Microsoft Excel | 4 |
| ECON201Z | Principles of Microeconomics | 4 |
| WR121Z | Composition I | 4 |
| Western Culture [4] | | 3 |
| | **Credits** | **15** |
| **Spring** | | |
| F223 | Field Measurements | 3 |
| F241 | Dendrology | 5 |
| WR227Z | Technical Writing | 4 |
| Difference, Power, and Discrimination [1] | | 3 |
| | **Credits** | **15** |
| **Second Year** | | |
| **Fall** | | |
| CHEM221Z | General Chemistry I | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |
| ENV235 | Introduction to Soil Science | 4 |
| GEOG265 | Intro to Geographical Info Systems | 4 |
| PH201 | General Physics I: Mechanics | 5 |
| | **Credits** | **18** |
| **Winter** | | |
| F222A | Elementary Forest Surveying | 4 |
| F250 | Forest Biology | 4 |
| F180<br>or NR180 | Internship: Forestry [5]<br>or Internship: Natural Resources | 3 |
| Literature and the Arts [2] | | 3 |
| | **Credits** | **14** |
| **Spring** | | |
| F251 | Recreation Resource Management | 4 |

| | | |
|---|---|---|
| MTH241<br>or MTH251 | Calculus for Bus and Soc Science I [7]<br>or | 4 |
| STAT243Z | Elementary Statistics I | 4 |
| Cultural Diversity [3] | | 3 |
| | **Credits** | **15** |
| | **Total Credits** | **92** |

1 Difference, Power, and Discrimination: HST201, HST202, HST203, SOC206Z , SOC213

2 Literature and the Arts: ART204, ART205, ART206, ENG104Z, ENG105Z, ENG106Z, ENG107, ENG108, ENG109, ENG201, ENG204, ENG205, ENG206, ENG262, MUS201, MUS202, MUS203.

3 Cultural Diversity: ANTH224, ANTH230, ANTH231, ANTH232, HST104, HUM204, HUM205, HUM206.

4 Western Culture: ART204, ART205, ART206, ENG107, ENG108, ENG109, ENG201, ENG204, ENG205, ENG206, HST101, HST102, HST103, HST201, HST202, HST203, MUS201, MUS202, MUS203, PHL101, PHL102.

5 Schedule an appointment with the Internship Coordinator one month prior to term 541-888-7405

6 NR201 may be substituted for F111.

7 MTH241 or higher will satisfy this requirement, excluding STAT243Z and MTH244.

* At least two courses must be chosen from the Arts and Letters section from the AS course list (p. 51) to meet the above requirements.

# FORESTRY MANAGEMENT/ FOREST RESTORATION AND FIRE, ASSOCIATE OF SCIENCE

Forestry provides students with an introduction to the technical and scientific knowledge related to the field of forestry and forest management. This set of classes satisfies the requirements for an AS degree and also meets the lower division requirements at Oregon State University (OSU) for a Bachelor of Science in Forestry.

The forest restoration and fire option focuses on managing for forest disturbance processes including wildfire, landslides, insects and disease. Graduates will have the knowledge and the skillset to incorporate natural processes, including disturbance, into active forest management planning. This option prepares students to prevent or mitigate damage resulting from disturbances or to use disturbance processes purposefully to achieve management objectives. Disturbance processes are important considerations in any actively managed forest, regardless of the specific management objective. These skills will be particularly important for managing forests at the landscape scale and in the face of uncertainty and rapid change including in climate or land use patterns.

This degree was designed to transfer to Oregon State University's College of Forestry. Other transfer options may be available, consult your advisor for details.

The forestry field is projected to have many career opportunities coming up in the next decade as many forestry and natural resources professionals retire in the next few years. Students who enjoy working outdoors and want to have a career that focuses on managing our valuable forest lands to conserve and protect resources as well as produce valuable products for society should consider this degree.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 90 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

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

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Integrate technical field skills with analytical skills to identify important forest management challenges and identify potential solutions for these problems.
- Explain and discuss important current issues, and social and political components of forest management in the United States and other countries.
- Demonstrate basic skills in forest surveying, recreation management, soil science, remote sensing, geographic information systems, and spreadsheet applications.
- Identify important tree species in the Pacific Northwest.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PRE-PROGRAM REQUIREMENTS

Placement into MTH241 or completion of prerequisites.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| BI221Z | Principles of Biology: Cells | 5 |
| CHEM221Z | General Chemistry I | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |
| ENV235 | Introduction to Soil Science | 4 |
| F111 | Introduction to Forestry [6] | 3 |
| | **Credits** | **17** |
| **Winter** | | |
| F222A | Elementary Forest Surveying | 4 |
| FS246 | Topics in Wildland Fire | 3 |
| GEOG209 | Physical Geography Weather/Climate | 4 |
| WR121Z | Composition I | 4 |
| | **Credits** | **15** |
| **Spring** | | |
| F241 | Dendrology | 5 |
| MTH241<br>or MTH251Z | Calculus for Bus and Soc Science I [7]<br>or Differential Calculus | 4 |
| Difference, Power, and Discrimination [1] | | 3 |
| | **Credits** | **12** |
| **Second Year** | | |
| **Fall** | | |
| ECON201Z | Principles of Microeconomics | 4 |
| GEOG265 | Intro to Geographical Info Systems | 4 |
| PE231 | Wellness for Life | 3 |
| PH201 | General Physics I: Mechanics | 5 |
| | **Credits** | **16** |
| **Winter** | | |
| BA169Z | Data Analysis Using Microsoft Excel | 4 |
| F250 | Forest Biology | 4 |
| STAT243Z | Elementary Statistics I | 4 |
| Literature and the Arts [2] | | 3 |
| | **Credits** | **15** |
| **Spring** | | |
| COMM111Z | Public Speaking | 4 |
| F180<br>or NR180 | Internship: Forestry [5]<br>or Internship: Natural Resources | 3 |

| | | |
|---|---|---|
| WR227Z | Technical Writing | 4 |
| Cultural Diversity [3] | | 3 |
| Western Culture [4] | | 3 |
| | **Credits** | **17** |
| | **Total Credits** | **92** |

1 Difference, Power, and Discrimination: HST201, HST202, HST203, SOC206Z , SOC213

2 Literature and the Arts: ART204, ART205, ART206, ENG104Z, ENG105Z, ENG106Z, ENG107, ENG108, ENG109, ENG201, ENG204, ENG205, ENG206, ENG262, MUS201, MUS202, MUS203.

3 Cultural Diversity: ANTH224, ANTH230, ANTH231, ANTH232, HST104, HUM204, HUM205, HUM206.

4 Western Culture: ART204, ART205, ART206, ENG107, ENG108, ENG109, ENG201, ENG204, ENG205, ENG206, HST101, HST102, HST103, HST201, HST202, HST203, MUS201, MUS202, MUS203, PHL101, PHL102.

5 Schedule an appointment with the Internship Coordinator a month prior to term 541-888-7405.

6 NR201 may be substituted for F111.

7 MTH241 or higher, excluding STAT243Z andMTH244.

* At least two courses must be chosen from the Arts and Letters section from the AS course list (p. 51) to meet the above requirements.

# FORESTRY MANAGEMENT/ OPERATIONS MANAGEMENT, ASSOCIATE OF SCIENCE

Forestry provides students with an introduction to the technical and scientific knowledge related to the field of forestry and forest management. This set of classes satisfies the requirements for an AS degree and also meets the lower division requirements at Oregon State University (OSU) for a Bachelor of Science in Forestry.

Students in the operations option focus on the business and timber harvesting side of forestry. Students learn how to actively manage lands with economic efficiency and with evolving markets and policy to provide timber and fiber for the nation. To achieve program goals, the curriculum includes a traditional forestry foundation with courses in forest biology, economics, management and operations.

This degree was designed to transfer to Oregon State University's College of Forestry. Other transfer options may be available, consult your advisor for details. Check out the Forestry/Natural Resources program website!

The forestry field is projected to have many career opportunities coming up in the next decade as many forestry and natural resources professionals retire in the next few years. Students who enjoy working outdoors and want to have a career that focuses on managing our valuable forest lands to conserve and protect resources as well as produce valuable products for society should consider this degree.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 95 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

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

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Integrate technical field skills with analytical skills to identify important forest management challenges and identify potential solutions for these problems.
- Explain and discuss important current issues, and social and political components of forest management in the United States and other countries.
- Demonstrate basic skills in forest surveying, recreation management, soil science, remote sensing, geographic information systems, and spreadsheet applications.
- Identify important tree species in the Pacific Northwest.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PRE-PROGRAM REQUIREMENTS

Placement into MTH241 or completion of prerequisites.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| BI221Z | Principles of Biology: Cells | 5 |
| CHEM221Z | General Chemistry I | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |
| ENV235 | Introduction to Soil Science | 4 |
| F111 | Introduction to Forestry [5] | 3 |
| | **Credits** | **17** |
| **Winter** | | |
| BA212 | Principles of Accounting II | 4 |
| PE231 | Wellness for Life | 3 |
| STAT243Z | Elementary Statistics I | 4 |
| WR121Z | Composition I | 4 |
| | **Credits** | **15** |
| **Spring** | | |
| BA213Z | Principles of Managerial Accounting | 4 |
| BA226Z | Introduction to Business Law | 4 |
| F241 | Dendrology | 5 |
| Difference, Power, and Discrimination [1] | | 3 |
| | **Credits** | **16** |
| **Second Year** | | |
| **Fall** | | |
| BA250 | Applied Entrepreneurship | 3 |
| ECON201Z | Principles of Microeconomics | 4 |
| GEOG265 | Intro to Geographical Info Systems | 4 |
| PH201 | General Physics I: Mechanics | 5 |
| | **Credits** | **16** |
| **Winter** | | |
| F222A | Elementary Forest Surveying | 4 |
| F250 | Forest Biology | 4 |
| ENGR112 | Engineering Computation | 4 |
| Literature and the Arts [2] | | 3 |
| | **Credits** | **15** |
| **Spring** | | |
| MTH241 | Calculus for Bus and Soc Science I [6] | 4 |
| COMM111Z | Public Speaking | 4 |
| WR227Z | Technical Writing | 4 |
| Cultural Diversity [3] | | 3 |

| | |
|---|---|
| Western Culture [4] | 3 |
| **Credits** | **18** |
| **Total Credits** | **97** |

[1] Difference, Power, and Discrimination: HST201, HST202, HST203, SOC206Z , SOC213

[2] Literature and the Arts: ART204, ART205, ART206, ENG104Z, ENG105Z, ENG106Z, ENG107, ENG108, ENG109, ENG201, ENG204, ENG205, ENG206, ENG262, MUS201, MUS202, MUS203.

[3] Cultural Diversity: ANTH224, ANTH230, ANTH231, ANTH232, HST104, HUM204, HUM205, HUM206.

[4] Western Culture: ART204, ART205, ART206, ENG107, ENG108, ENG109, ENG201, ENG204, ENG205, ENG206, HST101, HST102, HST103, HST201, HST202, HST203, MUS201, MUS202, MUS203, PHL101, PHL102.

[5] NR201 may be substituted for F111.

[6] MTH241 or higher, excluding STAT243Z and MTH244.

* At least two courses must be chosen from the Arts and Letters section from the AS course list (p. 51) to meet the above requirements.

# GEOGRAPHIC INFORMATION SYSTEMS, LESS THAN ONE YEAR CERTIFICATE OF COMPLETION

The Less Than One Year Certificate of Completion Geographic Information Science (GIS) can be completed in one year and will give students the basic knowledge and skills to be employed in an entry level position in the GIS field. GIS is applicable to an array of careers, including forestry, natural resources, planning, real estate, and more!

## GRADUATION REQUIREMENTS

Students must complete a minimum of 36 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade 'C' or better. Twelve (12) credits must be completed at Southwestern before the Certificate of Completion is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program the student will be able to:

- Discuss the benefits and applications of GIS and Cartographic technology
- Demonstrate skills in geographic information systems and cartographic design
- Plan and carry out GIS analyses independently
- Design, build, and use spatial databases

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| CIS125DB | Database Applications | 3 |
| GEOG265 | Intro to Geographical Info Systems | 4 |
| MTH98 | Math Literacy (or higher) | 4 |
| | **Credits** | **11** |
| **Winter** | | |
| BA169Z | Data Analysis Using Microsoft Excel | 4 |
| F222A | Elementary Forest Surveying | 4 |
| F280 | CWE: Forestry | 1-12 |
| GEOG270 | Adv Topics in Geog Info Systems | 3 |
| | **Credits** | **12-23** |
| **Spring** | | |
| BA285 | Human Relations in Organizations | 3 |
| GEOG275 | Fundamentals of Cartography | 3 |
| GEOG277 | GIS Capstone | 1 |
| WR115 | Fundamentals of Report Writing [2] | 4 |
| | **Credits** | **11** |
| | **Total Credits** | **34-45** |

[1] Call 541-888-7405 to schedule with Internship Coordinator one month prior to term.

[2] A higher writing may be substituted excluding WR241, WR242, WR243, or WR250.

# HUMAN SERVICES, ASSOCIATE OF APPLIED SCIENCE

The purpose of this program is to provide education and internship to prepare students for entry-level employment in the human services field. Human service workers provide a wide range of emotional and practical support services aimed at addressing the needs of people facing a variety of challenges. Embedded within the AAS degree is a Career Pathway Certificate in Addiction Studies which prepares students for state certification in addiction counseling through Mental Health and Addiction Certification Board (MHACBO). For information on the certification process visit the MHACBO website: http://www.mhacbo.org/en.

## PROGRAM STUDENT LEARNING OUTCOMES

- Practice professional and ethical standards inherent in the human services field
- Utilize skills of attending behavior, active listening, effective questioning techniques that align with theoretical orientations in the helping fields, while working with both individuals and groups
- Exhibit competence in working with people from diverse backgrounds
- Conduct various assessments with regard to eligibility, service needs and problem resolution, commonly used in the human services field
- Develop a plan of action for clients using a strengths-based approach to link people with community resources
- Utilize technology and digital resources for educational and career purposes
- Communicate effectively with others, both verbally and in writing
- Describe current best practices in the field of human services and demonstrate the ability to implement these practices at the entry level

## GRADUATION REQUIREMENTS

Students must complete a minimum of 93 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **Prerequisites** | | |
| **Fall** | | |
| Placement into MTH105Z or completion of MTH98 or MTH95 | | |
| Placement into WR121Z or completion of WR90R | | |
| | **Credits** | **0** |
| **First Year** | | |
| **Fall** | | |
| WR121Z | Composition I | 4 |
| HS150 | Personal Effectiveness | 3 |
| HS155 | Interviewing Theory and Techniques | 4 |
| HS228 | Infectious Diseases | 1 |
| HS201 | Introduction To Human Services | 3 |
| | **Credits** | **15** |
| **Winter** | | |
| HS224 | Group Counseling Skills | 4 |
| HS231 | Advanced Interviewing & Counseling | 4 |
| HS267 | Cultural Competencies Human Services | 4 |
| WR122Z | Composition II | 4 |
| | **Credits** | **16** |
| **Spring** | | |
| HS221 | Co-Occurring Disorders | 4 |
| HS226 | Ethics And Law | 1 |
| HS232 | Cognitive Behavioral Strategies | 3 |
| PSY243 | Drugs and Behavior | 3 |
| COMM100Z<br>or COMM111Z<br>or COMM218Z<br>or COMM219 | Introduction to Communication<br>or Public Speaking<br>or Interpersonal Communication<br>or Small Group Discussion | 4 |
| | **Credits** | **15** |
| **Second Year** | | |
| **Fall** | | |
| HS265 | Casework Interviewing | 3 |
| HS266 | Case Management | 3 |
| HS158 | Trauma: Theory To Practice | 3 |
| HS170 | Introduction to Practicum | 1 |
| MTH105Z | Math in Society [1] | 4 |
| PSY216<br>or PSY237 | Social Psychology<br>or Life Span Development | 3 |
| | **Credits** | **17** |
| **Winter** | | |
| HS209 | Crisis Intervention And Prevention | 3 |
| HS170B | Practicum and Seminar | 5 |
| Science [4] | | 4 |
| Arts and Letters [3] | | 3 |
| | **Credits** | **15** |
| **Spring** | | |
| HE250 | Personal Health [2] | 3 |
| HS170B | Practicum and Seminar | 5 |
| Science [4] | | 4 |
| Arts and Letters [3] | | 3 |
| | **Credits** | **15** |
| | **Total Credits** | **93** |

[1] MTH111Z or higher may be used as a substitution, excluding MTH211.
[2] PE231 Wellness for Life or 3 courses of PE185 may be used as a substitution.
[3] AS Arts and Letters designated courses will satisfy this requirement.
[4] AS Science/Math/Computer Science designated courses will satisfy this requirement.

# HUMAN SERVICES: ADDICTION STUDIES, CAREER PATHWAY CERTIFICATE OF COMPLETION

This program is designed for students who are interested in career enhancement and certification in addiction counseling. Students completing this Career Pathway Certificate fulfill the 150 hours of drug and alcohol education required by the Mental Health and Addiction Certification Board of Oregon (MHACBO) for a CADC I (Certified Alcohol Drug Counselor). State certification also requires successfully completing 1000 hours of supervised practice and a written exam. State certification requires a statement of recovery from individuals in recovery from a Substance Use Disorder; a Letter of Recovery Verification is needed for the CADC application. For information on the certification process visit the MHACBO website: http://www.mhacbo.org/en.

## STUDENT LEARNING OUTCOMES

- Practice professional and ethical standards inherent in the human services field
- Utilize skills of attending behavior, active listening, effective questioning techniques that align with theoretical orientations in the helping fields, while working with both individuals and groups
- Exhibit competence in working with people from diverse backgrounds
- Conduct various assessments with regard to eligibility, service needs and problem resolution, commonly used in the human services field
- Develop a plan of action for clients using a strengths-based approach to link people with community resources
- Utilize technology and digital resources for educational and career purposes
- Exhibit and apply knowledge of substances of abuse, the process of addiction, prevention and treatment

## GRADUATION REQUIREMENTS

- Students must have earned a cumulative grade point average of 2.0 and meet the residency requirements at the college.
- 90 college-level credit hours.
- All courses must be passed with a grade of "C-" or better.

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| HS150 | Personal Effectiveness | 3 |
| HS155 | Interviewing Theory and Techniques | 4 |
| HS228 | Infectious Diseases | 1 |
| | **Credits** | **8** |
| **Winter** | | |
| HS224 | Group Counseling Skills | 4 |
| | **Credits** | **4** |
| **Spring** | | |
| HS221 | Co-Occurring Disorders | 4 |
| HS226 | Ethics And Law | 1 |
| PSY243 | Drugs and Behavior | 3 |
| | **Credits** | **8** |
| | **Total Credits** | **20** |

# MARINE BIOLOGY, ASSOCIATE OF SCIENCE

The Associate of Science (AS) Marine Biology is designed for students who intend to transfer to the University of Oregon (UO) and complete their bachelor's degree at the Oregon Institute of Marine Biology (OIMB) in marine biology. The background offered by this major, however, is entirely appropriate for preparation for upper division emphasis in other professional fields such as medical, dental or veterinary school. Career options for marine biology graduates include jobs in state and federal government, advanced training for research and teaching in the marine sciences, and most other careers available to broadly trained biologists.

## ENTRY REQUIREMENTS:

Students are required to take the following courses prior to the program courses, achieve placement beyond these courses: MTH95 Intermediate Algebra; WR90 Paragraph Fundamentals (or placement in higher writing course) or WR90R Academic Literacy.

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| BI221Z | Principles of Biology: Cells | 5 |
| CHEM221Z | General Chemistry I | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |
| MTH111Z | Pre-Calculus | 4 |
| WR121Z | Composition I | 4 |
| | **Credits** | **18** |
| **Winter** | | |
| BI222Z | Principles of Biology: Organisms | 5 |
| CHEM222Z | General Chemistry II | 4 |
| CHEM228Z | General Chemistry II Laboratory | 1 |
| MTH112Z | Precalculus II: Trigonometry | 4 |
| WR122Z or WR227Z | Composition II or Technical Writing | 4 |
| | **Credits** | **18** |
| **Spring** | | |
| BI142 | Habitats: Marine Biology | 4 |
| BI223Z | Principles of Biology: Ecolo/Evolut | 5 |
| CHEM223Z | General Chemistry III | 4 |

| | | |
|---|---|---|
| CHEM229Z | General Chemistry III Laboratory | 1 |
| GS108 | Oceanography | 4 |
| | **Credits** | **18** |
| **Second Year** | | |
| **Fall** | | |
| COMM111Z | Public Speaking | 4 |
| MTH251Z | Differential Calculus | 4 |
| PH201<br>or PH211 | General Physics I: Mechanics<br>or General Physics with Calculus I | 5 |
| Cultural Literacy Course [1] | | 3 |
| | **Credits** | **16** |
| **Winter** | | |
| MTH252Z | Integral Calculus | 4 |
| PH202<br>or PH212 | General Physics II: Heat, Waves, Relativity<br>or General Physics with Calculus II | 5 |
| Cultural Literacy Course [2] | | 3-4 |
| Social Science Course [3] | | 3-4 |
| | **Credits** | **15-17** |
| **Spring** | | |
| PE231 | Wellness for Life (or a PE185 course) | 3 |
| Arts and Letters Course [4] | | 3-4 |
| Arts and Letters Course [5] | | 3 |
| Social Science Course [6] | | 3-4 |
| | **Credits** | **12-14** |
| | **Total Credits** | **97-101** |

1 Select from ANTH224 or GEOG105 (UO DIFFERENCES, INEQUITY, AGENCY)

2 Select from A&L list or HUM204, HUM205, HUM206 or ENG107, ENG108 (UO GLOBAL PERSPECTIVE)

3 Sct from HST101, HST102, HST103 or HST201, HST202, HST203 or SOC204Z or ANTH221

4 Select from select from MUS205, MUS206, PHL102, PHL103 or ART204, ART205, ART206, ART253, ART256 or COMM100Z, COMM111Z, COMM218Z or ENG104Z, ENG105Z, ENG106Z, ENG109, ENG253, ENG254, ENG255

5 Select from PS201, PS202, PS203 or PSY201Z, PSY202Z, PSY237, PSY239, PSY243 or SOC205Z, SOC206Z, SOC208, SOC213, ANTH222, ANTH223

6 Select from select from MUS205, MUS206, PHL102, PHL103 or ART204, ART205, ART206, ART253, ART256 or COMM100Z, COMM111Z, COMM218Z or ENG106Z, ENG109, ENG104Z, ENG105Z, ENG253, ENG254, ENG255

# MECHANICAL/CIVIL ENGINEERING, ASSOCIATE OF SCIENCE

The Associate of Science (AS) in Mechanical/Civil Engineering program will provide the first two years of the engineering core curriculum for students pursuing civil or mechanical engineering as a transfer degree. The coursework is foundational to the upper division pro-schools and provides the fundamental concepts needed for success and advancement in the civil and mechanical engineering profession.

This degree satisfies the requirements for an AS degree and was designed to transfer to Oregon Institute of Technology's College of Engineering or Oregon State University's College of Engineering. Please consult your advisor for details.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 107 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the AS degree is awarded.

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

Students must complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

- Students will demonstrate the ability to solve engineering problems using a variety of mathematical and computational methods.
- Students will learn and apply the required ethics expected in a professional engineering setting.
- Students will gain fundamental understanding of engineering principles including fundamentals of equilibrium of forces, and moments, an understanding of material responses to applied and reaction loads, and fundamental electrical circuits.
- Students will demonstrate problem solving experience through various methods including use of higher level computer programming 2-D and 3-D CAD modeling.
- Students will demonstrate an ability to think critically and design feasible solutions to proposed design problems.
- Students will be able to communicate designs and results effectively.
- Students will demonstrate an ability to function in interdisciplinary teams.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| CHEM221Z | General Chemistry I | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |
| ENGR111 | Intro to Engineering | 3 |
| MTH251Z | Differential Calculus | 4 |
| WR121Z | Composition I | 4 |
| | **Credits** | **16** |

| | | |
|---|---|---|
| **Winter** | | |
| CHEM222Z | General Chemistry II | 4 |
| CHEM228Z | General Chemistry II Laboratory | 1 |
| COMM111Z | Public Speaking | 4 |
| MTH252Z | Integral Calculus | 4 |
| ENGR112 | Engineering Computation | 4 |
| | **Credits** | **17** |
| **Spring** | | |
| BI103 | General Biology [2] | 4 |
| MTH253Z | Calculus: Sequences and Series | 4 |
| WR227Z | Technical Writing | 4 |
| DRFT110 or DRFT112 | Computer Assisted Drafting I or Computer Assisted Drafting III | 3 |
| Arts & Letters [1] | | 3 |
| | **Credits** | **18** |
| **Summer** | | |
| ECON201Z or ECON202Z | Principles of Microeconomics or Principles of Macroeconomics | 4 |
| Arts and Letters [1] | | 3 |
| | **Credits** | **7** |
| **Second Year** | | |
| **Fall** | | |
| ENGR201 | Electrical Fundamentals I [5] | 4 |
| ENGR211 | Statics | 3 |
| MTH254 | Vector Calculus I | 4 |
| PH211 | General Physics with Calculus I | 5 |
| | **Credits** | **16** |
| **Winter** | | |
| Cultural Diversity [3] | | 3 |
| ENGR202 | Electrical Fundamentals II [5] | 4 |
| ENGR212 | Dynamics | 3 |
| PE231 | Wellness for Life [4] | 3 |
| PH212 | General Physics with Calculus II | 5 |
| | **Credits** | **18** |
| **Spring** | | |
| ENGR213 | Strength of Materials | 3 |
| MTH260 | Matrix Methods and Linear Algebra [6] | 4 |
| MTH256 | Differential Equations | 4 |
| PH213 | General Physics with Calculus III | 5 |
| | **Credits** | **16** |
| | **Total Credits** | **108** |

1. Select appropriate course in specific subject area from the course listed in AS Arts & Letters category.
2. BI101, BI102, BI103, BI221Z, BI222Z, BI223Z, BI234, ENV235, F250 may be substituted. Transfer to OIT for Civil Engineering should substitute G201.
3. Cultural Diversity: ANTH224, ANTH231, ANTH232, or HST104. Must be a Social Science course.
4. PE231, HE250, or three (3) credits of PE185 sport/activity courses will satisfy this requirement.
5. GEOG265 may substitute for ENGR201 for students transferring to OIT Civil Engineering.
6. MTH264 and MTH243A may be substituted for MTH253Z and MTH260. Students transferring to Oregon State in Civil Engineering must take MTH264 and STAT243Z.
7. OIT and PSU transfers should take MTH255 in place of MTH260 and should take MTH253.
8. OSU and OIT Civil Students should take Forest Surveying F222A in place of ENGR202.

# MEDICAL ASSISTANT, CERTIFICATE OF COMPLETION

The Certificate of Completion Medical Assistant prepares students to perform initial clerical and administrative duties in medical, clinical, hospitals, or health care facilities. The graduate will be prepared to schedule and receive patients, obtain patient data, receive payment, maintain medical records, data processing, perform general office skills, office equipment operation, and assume general medical office responsibilities. The student will demonstrate effective communication skills in dealing with patients, medical personnel and peers.

Note: Program is not nationally accredited by a healthcare accrediting body. Check with individual states for specific licensure or scope of practice requirements.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 45 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. Twelve (12) credits must be completed at Southwestern before the Certificate of Completion is awarded. All courses must be completed with a grade of 'C' or better.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

- Demonstrate comprehensive knowledge of clinical practice.
- Demonstrate general knowledge of medical terminology, anatomy and physiology, and medical law and ethics.
- Demonstrate proficiency in medical office administrative practices.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| AH111 | Medical Terminology I | 3 |
| AH121 | Body Structures and Functions I [5] | 3 |
| AH152 | Medical Law and Ethics | 2 |
| COMM100Z | Introduction to Communication [3] | 4 |
| WR115 | Fundamentals of Report Writing [1] | 4 |
| | **Credits** | **16** |
| **Winter** | | |
| AH112 | Medical Terminology II | 3 |
| AH122 | Body Structures and Functions II [5] | 3 |
| AH151 | Reimbursement Management | 3 |
| PHAR105 | Pharmacology I | 3 |
| MTH65 | Algebra II [2] | 4 |
| | **Credits** | **16** |
| **Spring** | | |
| AH131 | Clinical Procedures I | 4 |
| AH297 | NHA Licensure Qualification | 4 |
| BA285 | Human Relations in Organizations [6] | 3 |
| PSY201Z | Introduction to Psychology I [4] | 4 |
| | **Credits** | **15** |
| | **Total Credits** | **47** |

1 WR115, WR121Z, WR122Z or WR227Z.
2 MTH65 or higher, excluding MTH211.
3 COMM100Z or higher will satisfy this requirement.
4 PSY201Z or higher will satisfy this requirement, except PSY228.
5 BI231, BI232, BI233 completed sequence may be substituted for AH121/122.
6 Any PSY or SOC Lower Division Course above a 100-level or BA120 may be substituted.

# NATURAL RESOURCES, ASSOCIATE OF SCIENCE

Southwestern's Natural Resources program provides students with an introduction to the technical and scientific knowledge related to natural resource policy and management. Students can prepare for careers in natural resource planning, management, conservation and education roles with government agencies, non-governmental organizations and in educational settings.

The program guide lists the required courses for the AS degree. The program guide also lists recommended electives appropriate for the field.

Southwestern has a formal articulation agreement with Oregon State University (OSU) aligning this AS Natural Resources degree with OSU's Natural Resources Bachelor of Science degree, Watershed Management option. Students that complete the AS degree with Natural Resources emphasis at Southwestern will satisfy most lower division courses required for the bachelor's in Natural Resources, Watershed Management option.

Following completion of the AS Natural Resources degree, students may transfer to OSU with 90 or more credit hours (up to 124 can be transferred). Southwestern courses in the AS Natural Resources are listed in the articulation agreement. AS Natural Resources graduates transferring to OSU have junior standing with only (a) upper division Synthesis and WIC requirements of the Baccalaureate Core to be completed, and (b) upper division courses associated with the Natural Resources degree program.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 92 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

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

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

# PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Integrate technical "field" skills with analytical skills to identify important natural resources problems and begin to identify effective solutions for these problems.
- Acquire knowledge regarding a range of natural resources current issues, social and political components of resource management.
- Work with experts in a variety of natural resource fields.
- Apply watershed management principles and practices to actual natural resources issues and problems to develop plans and solutions.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

# PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| F111 | Introduction to Forestry [1] | 3 |
| BI221Z | Principles of Biology: Cells | 5 |
| WR121Z | Composition I | 4 |
| MTH112Z | Precalculus II: Trigonometry [7] | 4 |
| | **Credits** | **16** |
| **Winter** | | |
| ANTH231 | Native North Americans: PNW [5] | 3 |
| BI222Z | Principles of Biology: Organisms | 5 |
| PHL102 | Ethics | 3 |
| WR227Z | Technical Writing | 4 |
| | **Credits** | **15** |
| **Spring** | | |
| BI223Z | Principles of Biology: Ecolo/Evolut | 5 |
| NR180<br>or F180 | Internship: Natural Resources [4]<br>or Internship: Forestry | 1 |
| PE231 | Wellness for Life | 3 |
| STAT243Z | Elementary Statistics I | 4 |
| | **Credits** | **13** |
| **Second Year** | | |
| **Fall** | | |
| CHEM221Z | General Chemistry I | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |
| G201<br>or G202<br>or ENV235 | Physical Geology I [2]<br>or Physical Geology II<br>or Introduction to Soil Science | 4 |
| GEOG265 | Intro to Geographical Info Systems | 4 |
| English Literature [3] | | 3 |
| | **Credits** | **16** |
| **Winter** | | |
| COMM111Z | Public Speaking | 4 |
| ECON201Z | Principles of Microeconomics | 4 |
| F223<br>or F222A | Field Measurements<br>or Elementary Forest Surveying | 3-4 |
| F250 | Forest Biology | 4 |
| GEOG209 | Physical Geography Weather/Climate | 4 |
| | **Credits** | **19-20** |
| **Spring** | | |
| F241 | Dendrology | 5 |
| F251 | Recreation Resource Management | 4 |
| GS108<br>or NR260 | Oceanography<br>or Watershed Processes | 4 |
| HST203 | History of the United States | 3 |
| | **Credits** | **16** |
| | **Total Credits** | **95-96** |

1. NR201 may be substituted for F111.
2. This requires a corequisite G145 or G025 Field Trip course. Ask your advisor for details.
3. English Literature options: ENG104Z, ENG105Z, or ENG106Z.
4. Call 541-888-7405 to schedule with Internship Coordinator one month prior to term.
5. ANTH232 may be substituted for ANTH231.
6. BI101, BI102, BI103 may be substituted for BI221Z, BI222Z, BI223Z.
7. MTH112Z or higher, excluding STAT243Z, MTH211, MTH212, and MTH213.

# NURSING, ASSOCIATE OF APPLIED SCIENCE

The Associate of Applied Science (AAS) Nursing is intended for students seeking a career as a Registered Nurse. The program prepares students to practice professional nursing in a variety of settings. Upon completion of the program, students will be awarded an AAS degree and are eligible to sit for the national licensure examination (NCLEX-RN) leading to a licensure as a Registered Nurse.

Note: Not a nationally accredited program. Check with individual states for specific licensure or scope of practice requirements.

## ENTRY REQUIREMENTS

This is a restricted-entry program. Students are required to submit an application to the College and a separate application to the nursing program. A total of 52 credits of specific prerequisites must be completed. All prerequisites must be completed with a grade of 'C' or better prior to beginning the nursing program. Thirty (30) of the 52 credits must be completed by the end of fall term preceding application and must include BI231 Human Anatomy and Physiology I. Selection of applicants is based on a point system described in the application/ information packet.

Acceptance to the program allows for co-admission to the Oregon Health & Science University (OHSU) nursing program. Students are eligible to complete a bachelor's degree in nursing from OHSU either full-time in three quarters or part-time.

Information about the Nursing program may also be obtained on myLakerLink in the Program Forms section (https://mylakerlink.socc.edu/ICS/Admissions/Program_Specific_Forms.jnz). For more information contact the administrative assistant, 541-888-7443 or the director at 541-888-7085.

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Act personally and professionally based on a set of shared core nursing values.
- Develop insight through reflection, self-analysis, and self-care.
- Engage in ongoing intentional learning.
- Demonstrate leadership in nursing and health care.
- Collaborate as part of a health care team.
- Practice within, utilize, and contribute to the broader health care system.
- Practice relationship-centered care.
- Communicate effectively.
- Make sound clinical judgments.
- Locate, evaluate and use the best available evidence in making practice decisions.

## PRE-PROGRAM COURSES

**Thirty (30) credits must be completed by the end of fall term preceding application and must include BI231 Human Anatomy and Physiology I. A student must have eight (8) credits of writing.**

| Course | Title | Credits |
|---|---|---|
| **Prerequisites** | | |
| **Summer** | | |
| CHEM110 | Foundations of General, Organic, and Biochemistry [1] | 4 |
| FN225 | Nutrition | 4 |
| CIS120 | Concepts of Computing (or demonstrated proficiency) | 4 |
| ANTH221 | Intro to Cultural Anthropology [4] | 3 |
| | **Credits** | **15** |
| **Fall** | | |
| BI231 | Human Anatomy and Physiology I [2] | 4 |
| BI234 | Microbiology | 4 |
| WR121Z | Composition I | 4 |
| | **Credits** | **12** |
| **Winter** | | |
| BI232 | Human Anatomy and Physiology II [2] | 4 |
| PHL102 | Ethics | 3 |
| WR122Z | Composition II | 4 |
| PSY237 | Life Span Development | 3 |
| | **Credits** | **14** |
| **Spring** | | |
| BI233 | Human Anatomy and Physiology III [2] | 4 |
| COMM218Z or COMM219 | Interpersonal Communication or Small Group Discussion | 4 |
| MTH95 | Intermediate Algebra [3] | 4 |
| | **Credits** | **12** |
| | **Total Credits** | **53** |

1 Students applying to the nursing program must either a 200-level general chemistry sequence or CHEM110 Foundations of General, Organic, and Biochemistry.

2 Students must have completed BI231 Human Anatomy and Physiology I prior to submitting an application. BI231, BI232, and BI233 must have been completed *within the last seven years*.

3 MTH95, MTH105Z, or higher, excluding MTH211 will satisfy this requirement.

4 ANTH222, ANTH223 may be substituted for ANTH221.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 91 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

Student must complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

# PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| NRS110 | Foundation Of Nursing Health Promot | 9 |
| NRS230 | Clinical Pharmacology I | 3 |
| BI149 | Introduction to Human Genetics | 3 |
| | **Credits** | **15** |
| **Winter** | | |
| NRS111 | Found of Nrsg in Chronic Illness I | 6 |
| NRS232 | Pathophysiological Processes I | 3 |
| STAT243Z | Elementary Statistics I | 4 |
| | **Credits** | **13** |
| **Spring** | | |
| NRS112 | Foundations of Nursing in Acute I | 6 |
| NRS231 | Clinical Pharmacology II | 3 |
| NRS233 | Pathophysiological Processes II | 3 |
| PHL103 | Intro to Logic and Critical Thnkg | 3 |
| | **Credits** | **15** |
| **Second Year** | | |
| **Fall** | | |
| HE250 | Personal Health [2] | 3 |
| Humanities/Soc. Sciences or Natural Sciences [1] | | 6 |
| NRS221 | Found of Nrsg in Chronic Illness II and End of Life | 9 |
| | **Credits** | **18** |
| **Winter** | | |
| Humanities/Soc. Sciences or Natural Sciences [1] | | 6 |
| NRS222 | Found of Nrsg in Acute Care II and End of Life | 9 |
| | **Credits** | **15** |
| **Spring** | | |
| NRS224 | Scope of Practice/Integrated Practicum | 9 |
| Elective [3] | | 3 |
| Any 200 level Social Science | | 3 |
| | **Credits** | **15** |
| | **Total Credits** | **91** |

[1] Humanities/Social or Natural Science courses: A minimum of 11 credits of Humanities/Social Science or Natural Science courses must be selected from outside of the student's area of concentration. College-level courses may be selected from the following: ANTH, ART, ASL (200 level), BI, CHEM, CJ100, CJ101, CJ201, CJ220, CS133WS, CS160, CS161, CS162, CS260, ECON202Z, ED169, ED258, ENG, G (200 level), GEOG105, GS, HD208, HDFS222, HDFS225, HDFS229, HDFS247, HST, HUM, J, MUS, MUP105, PH, PHL, PS (200 level), PSY (200 level), SOC (200 level), SP, SPAN (200 level), WR (200 level).

[2] PE231, HE250, or three (3) credits of PE185 sport/activity courses will satisfy this requirement.

[3] Developmental and remedial courses **will not** fulfill elective requirement.

# PRACTICAL NURSING, CERTIFICATE OF COMPLETION

Are you great at remembering fine details and solving difficult problems? A career in nursing could be right for you! The First year of our Nursing Program will train you for a position as a Practical Nurse. Nursing is the largest occupation in healthcare! You will learn the skills necessary to manage the physical and emotional care of patients through relationship-centered care. You'll experience many healthcare settings from hospitals, to home health care, doctor's offices, and nursing homes. Upon graduation, you'll be prepared to demonstrate leadership in the field and sit for the national licensure examination (PN-NCLEX). Making a positive, long-lasting impact on the lives of others is what nursing is all about!

Contact the Administrative Assistant at nursing@socc.edu for further application requirements or click here for forms and information. The Practical Nursing Certificate prepares graduates to become licensed as a Practical Nurse. Successful completion of three quarters qualifies students for meeting the academic requirements to take the PN-NCLEX exam for licensure in the state of Oregon. Once admitted, the student is required to take all curriculum courses as they appear in the catalog or before. This is a restricted entry program, and students must submit a separate application along with their college admission application.

Southwestern Oregon Community College is an OCNE consortium school.

Note: Not a nationally accredited program. Check with individual states for specific licensure or scope of practice requirements

## ENTRY REQUIREMENTS

Acceptance into the Nursing Program.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 85 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twelve (12) credits must be completed at Southwestern before the Certificate of Completion is awarded.

Student must complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Act personally and professionally based on a set of shared core nursing values.
- Develop insight through reflection, self-analysis, and self-care.
- Engage in ongoing intentional learning.
- Demonstrate leadership in nursing and health care.
- Collaborate as part of a health care team.
- Practice within, utilize, and contribute to the broader health care system.
- Practice relationship-centered care.
- Communicate effectively.
- Make sound clinical judgments.
- Locate, evaluate and use the best available evidence in making practice decisions.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Summer** | | |
| CHEM110 | Foundations of General, Organic, and Biochemistry [1] | 4 |
| FN225 | Nutrition | 4 |
| CIS120 | Concepts of Computing | 4 |
| ANTH221 | Intro to Cultural Anthropology [4] | 3 |
| | **Credits** | **15** |
| **Fall** | | |
| BI231 | Human Anatomy and Physiology I [2] | 4 |
| BI234 | Microbiology | 4 |
| MTH95 | Intermediate Algebra [3] | 4 |
| WR121Z | Composition I | 4 |
| | **Credits** | **16** |
| **Winter** | | |
| BI232 | Human Anatomy and Physiology II | 4 |
| PHL102 | Ethics | 3 |
| WR122Z | Composition II | 4 |
| | **Credits** | **11** |
| **Spring** | | |
| BI233 | Human Anatomy and Physiology III | 4 |
| PSY237 | Life Span Development | 3 |
| COMM218Z | Interpersonal Communication | 4 |
| | **Credits** | **11** |
| **Second Year** | | |
| **Fall** | | |
| NRS110 | Foundation Of Nursing Health Promot | 9 |
| NRS230 | Clinical Pharmacology I | 3 |
| | **Credits** | **12** |
| **Winter** | | |
| NRS111 | Found of Nrsg in Chronic Illness I | 6 |
| NRS232 | Pathophysiological Processes I | 3 |
| | **Credits** | **9** |
| **Spring** | | |
| NRS112 | Foundations of Nursing in Acute I | 6 |
| NRS231 | Clinical Pharmacology II | 3 |
| NRS233 | Pathophysiological Processes II | 3 |
| | **Credits** | **12** |
| | **Total Credits** | **86** |

[1] Students applying for the nursing program must complete either a 200-level general chemistry sequence or CHEM110.

[2] Students must have completed BI231 prior to submitting an application. BI231, BI232, and BI233 must have been completed within the last seven years.

[3] MTH95, MTH105Z, or higher, excluding MTH211, MTH212, and MTH213.
[4] ANTH222, ANTH223 may be substituted for ANTH221.

# PHARMACY TECHNICIAN, CERTIFICATE OF COMPLETION

The Certificate of Completion Pharmacy Technician program prepares individuals for employment in hospital and retail pharmacies. Pharmacy Technician is a category of support personnel and denotes a skilled worker who has been trained to assist the pharmacist in preparing and dispensing medications. This category of support personnel is spelled out in Oregon Administrative Rules 855-41-205 under the auspices of the Oregon State Board of Pharmacy. Program is not nationally accredited by a healthcare accrediting body. Check with individual states for specific licensure or scope of practice requirements.

**Please Note - this certificate is only offered on Even years. It is not offered each year but rather every other years. Please plan to complete the certificate in a year.**

## ENTRY REQUIREMENTS

Students are required to complete the College's placement process to determine skill level and readiness in math and writing. As part of their training program, students must begin with the courses within their skill level as determined by the placement process.

Due to the nature of this curriculum and the access to drugs, all students will have to declare themselves “drug free” and be subject to a criminal background check. Any student who is unable, for any reason, to complete the practicum parts of this curriculum will not be able to continue in the program. Drug testing will be done prior to clinical practicum. Graduates may choose to take a national certification examination at the successful conclusion of the program.

For more information contact the administrative assistant at 541-888-7443.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 52 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of ‘C’ or better. Twelve (12) credits must be completed at Southwestern before the Certificate of Completion is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Function as a professional in a pharmacy environment either in a hospital or retail setting.
- Assist the pharmacist in the preparation and dispensing of medications.
- Be aware of the duties and limitations of a pharmacy technician as per Oregon Administrative Rules 855-41-205.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **Fall** | | |
| PHAR100 | Intro to Pharmacy: Practice and Law | 4 |
| AH111 | Medical Terminology I | 3 |
| AH121 | Body Structures and Functions I [4] | 3 |
| WR121Z | Composition I | 4 |
| MTH65 | Algebra II [1] | 4 |
| | **Credits** | **18** |
| **Winter** | | |
| PHAR105 | Pharmacology I | 3 |
| PHAR115 | Pharmacy Calculations | 2 |
| PHAR200 | Pharmacy Technician Procedures I | 4 |
| AH112 | Medical Terminology II | 3 |
| AH122 | Body Structures and Functions II [4] | 3 |
| BA285 | Human Relations in Organizations [5] | 3 |
| | **Credits** | **18** |
| **Spring** | | |
| COMM100Z | Introduction to Communication [2] | 4 |
| PHAR110 | Pharmacology II | 3 |
| PHAR205 | Pharmacy Technician Procedures II | 4 |
| PHAR210 | Pharmacy Records Management | 3 |
| PHAR280 | CWE: Pharmacy [3] | 3 |
| | **Credits** | **17** |
| | **Total Credits** | **53** |

[1] MTH82, MTH95, or higher, excluding MTH211, may be substituted for MTH65.
[2] COMM111Z, COMM218Z, COMM219 will satisfy this requirement.
[3] Call 541-888-7405 to schedule with Internship Coordinator **three months** prior to term. The student will need to receive their Temporary License from the Oregon Board of Pharmacy (https://www.oregon.gov/pharmacy/pages/licensing.aspx) before registering for the internship.
[4] BI231, BI232, BI233 completed sequence may be substituted for AH121/122.
[5] Any PSY or SOC course above a 100-level or BA120 may be substituted.

# PHYSICS, ASSOCIATE OF SCIENCE

The Associate of Science degree with physics emphasis is designed to give students interested in pursuing STEM programs in physics a more complete transfer path than the existing AAOT bulk transfer degree.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 92 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the AS degree is awarded.

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

Students must complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

- Apply foundational conceptual knowledge and models of physical principles to analyze and/or predict phenomena.
- Understand and apply proper mathematical interpretation of physical principles and computation methods to analyze and/or predict phenomena.
- Interpret and communicate scientific information via written, spoken, and/or visual representations.
- Describe the relevance of specific scientific principles to the human experience.
- Form and test a hypothesis in the laboratory or field using discipline-specific tools and techniques for data collection and/or analysis.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| CHEM221Z | General Chemistry I | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |
| MTH251Z | Differential Calculus | 4 |
| WR121Z | Composition I | 4 |
| | **Credits** | **13** |
| **Winter** | | |
| CHEM222Z | General Chemistry II | 4 |
| CHEM228Z | General Chemistry II Laboratory | 1 |
| COMM111Z | Public Speaking | 4 |
| MTH252Z | Integral Calculus | 4 |
| WR227Z | Technical Writing | 4 |
| | **Credits** | **17** |
| **Spring** | | |
| BI223Z | Principles of Biology: Ecolo/Evolut | 5 |
| CHEM223Z | General Chemistry III | 4 |
| CHEM229Z | General Chemistry III Laboratory | 1 |
| MTH253Z | Calculus: Sequences and Series | 4 |
| Social Science [6] | | 3 |
| | **Credits** | **17** |
| **Second Year** | | |
| **Fall** | | |
| MTH254 | Vector Calculus I | 4 |
| PH211 | General Physics with Calculus I | 5 |
| Social Science [6] | | 3 |
| Arts and Letters [2] | | 3 |
| | **Credits** | **15** |
| **Winter** | | |
| ENGR112 or CS161 | Engineering Computation or Computer Science I | 4 |
| MTH255 | Vector Calculus II | 4 |
| PH212 | General Physics with Calculus II | 5 |
| Cultural Diversity [1] | | 3 |
| | **Credits** | **16** |
| **Spring** | | |
| MTH256 | Differential Equations | 4 |
| PE231 | Wellness for Life | 3 |
| PH213 | General Physics with Calculus III | 5 |
| Arts and Letters [2] | | 3 |
| | **Credits** | **15** |
| | **Total Credits** | **93** |

1. Social Science Cultural Diversity: ANTH224, ANTH230, ANTH231, ANTH232, HST104.
2. Must be chosen from the AS Arts and Letters course list.
3. MTH264 may be substituted for MTH253 for students transferring to OSU.
4. Any Biology lab course can substitute for BI203.
5. 3 credits for PE 185 may substitute for PE231.
6. Must be chosen from the AS Social Science course list.

# PRESCHOOL CHILD DEVELOPMENT, ASSOCIATE OF APPLIED SCIENCE

The Associate of Applied Science (AAS) in Preschool Child Development degree prepares students to work in a variety of educational and childcare settings, including preschools, public schools, private schools, Head Start, Relief Nurseries, and family home settings that serve preschool children. This degree offers students the opportunity to gain enhanced practical experience through practicum and student teaching courses. This degree program is fully articulated with Southern Oregon University's early childhood development program. Students who transfer to Southern Oregon University, and are accepted into the program, should be able to complete requirements for the bachelor's degree. All coursework specific to childhood education and family studies degrees and certificates is offered online through Southwestern. Transfer courses that meet Southwestern' s course outcomes are readily accepted into the program.

## ENTRY REQUIREMENTS

Students are required to complete the College's placement process to determine skill level and readiness in math and writing. As part of their training program, students must begin with the courses within their skill level as determined by the placement process.

Students participating in all education practicums must meet measles immunization requirements. If you choose not to vaccinate for measles due to personal, religious, or philosophical reasons, you may claim a nonmedical or medical exemption. Visit www.oregon.gov/oha and look under Program and Services for more information on how to get your immunization records or claim an exemption. Note that each practicum site may have separate immunization requirements.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 91 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses in the program must be completed with a 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

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

Students must complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## CREDIT FOR PRIOR LEARNING

Credit for prior learning options are available for students with a Preschool Child Development Associate (CDA) credential, an Infant Toddler Child Development Associate (CDA) credential, a Step Seven on the Oregon Registry. Contact ece@socc.edu for more information.

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this degree, students will have the knowledge and skills to:

- Observe, Document, and Assess to Support Young Children and Families
- Use Developmentally Effective Approaches
- Promote Child Development and Learning
- Build Family and Community Relationships

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ECE150 | Introduction and Observation in ECE | 4 |
| ECE170 | Health and Safety Early Childhood | 3 |
| HDFS225 | Prenatal Infant and Toddler Development | 3 |
| WR121Z | Composition I | 4 |
| MTH65 | Algebra II [5] | 4 |
| | **Credits** | **18** |
| **Winter** | | |
| ECE163 | Environments and Guidance in ECE [2] | 3 |
| ECE163B | Practicum I ECE | 2 |
| ECE152 | Creative Activities in ECE | 3 |
| HDFS247 | Child Development 0-8 | 3 |
| ECE151 | Guidance and Classroom Management | 3 |
| | **Credits** | **14** |
| **Spring** | | |
| COMM218Z | Interpersonal Communication [3] | 4 |
| ECE209 | Theory and Practice I Pre-K [2] | 3 |
| ECE209B | Practicum II Pre-K | 2 |
| CIS120 | Concepts of Computing | 4 |
| ECE154 | Children's Language and Lit Dev | 3 |
| | **Credits** | **16** |
| **Second Year** | | |
| **Fall** | | |
| ECE102 | Theory and Practice II Pre-K [2] | 3 |
| ECE102B | Practicum III Pre-K | 2 |
| ECE240 | Lesson and Curriculum Planning | 3 |
| ED169 | Overview of Student Special Needs | 3 |
| ED135 | Teaching Math to Young Children | 3 |
| | **Credits** | **14** |
| **Winter** | | |
| ECE261 | Student Teaching Pre-K [2] | 3 |
| ECE261B | Praticum IV Pre-K | 3 |
| HDFS140 | Contemporary American Families | 3 |

| | | |
|---|---|---|
| HDFS227 | Parents as Partners in Education | 3 |
| ED258 | Multicultural Education | 3 |
| | **Credits** | **15** |
| **Spring** | | |
| HDFS285 | Prof Issues in Early Childhood Ed | 3 |
| ED134 | Children Who are Dual Lang Learners [4] | 2 |
| BA285 | Human Relations in Organizations [7] | 3 |
| HDFS222 | Understanding Families: Supporting Diversity Disability and Risk | 3 |
| PE231 | Wellness for Life [6] | 3 |
| | **Credits** | **14** |
| | **Total Credits** | **91** |

1 Online CPR Certificates are not recognized by the State of Oregon. It is recommended you complete an in-person training.
2 ECE163, ECE209, ECE102 and ECE261 must be taken in sequence with their co-requisite practicum courses. Exception granted with instructor approval.
3 COMM100Z, COMM111Z, COMM218Z, or COMM219 will satisfy this requirement.
4 ED101P will satisfy this requirement, depending on Practicum placement.
5 A higher math class can be substituted. Students considering the pursuit of K-12 teaching will be required to take MTH211, MTH212 and MTH213.
6 PE231, HE250, or three (3) credits of PE185 sport/activity courses will satisfy this requirement.
7 BA120, BA285, PSY100, PSY201Z, or PSY202Z will satisfy this requirement.

# CHILDHOOD EDUCATION AND FAMILY STUDIES, PRESCHOOL CHILDREN, EDUCATION AND DEVELOPMENT, CERTIFICATE OF COMPLETION

The Certificate of Completion Childhood Education and Family Studies, Preschool Children, Education and Development is a one-year certificate that prepares students for entry-level positions as childcare workers, preschool attendants, preschool teacher assistants, and daycare assistants.

## ENTRY REQUIREMENTS

Students are required to complete the College's placement process to determine skill level and readiness in math and writing. As part of their training program, students must begin with the courses within their skill level as determined by the placement process.

Students will also be required to have a current immunization record and background check to complete practicum requirements. The requirements will vary per state. Students whose home state is not Oregon, are encouraged to research the requirements for the state regulating organization regarding what will be required to complete the background check.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 46 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twelve (12) credits must be completed at Southwestern before the Certificate of Completion is awarded.

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

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## CREDIT FOR PRIOR LEARNING

Credit for prior learning options are available for students with a Preschool Child Development Associate (CDA) credential, an Infant Toddler Child Development Associate (CDA) credential, a Step Seven on the Oregon Registry, or a Certificate of Completion for First Connections that includes mentoring in an infant toddler learning environment. Contact ece@socc.edu for more information.

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will have knowledge and skills to:

- Observe, Document, and Assess to Support Young Children and Families
- Use Developmentally Effective Approaches
- Use Content Knowledge to Build Meaningful Curriculum
- Promote Child Development and Learning
- Build Family and Community Relationships
- Become a Professional

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ECE150 | Introduction and Observation in ECE | 4 |
| ECE170 | Health and Safety Early Childhood | 3 |
| HDFS225 | Prenatal Infant and Toddler Development | 3 |
| WR121Z | Composition I | 4 |
| | **Credits** | **14** |
| **Winter** | | |
| ECE163 | Environments and Guidance in ECE [1] | 3 |
| ECE163B | Practicum I ECE [1] | 2 |
| ECE151 | Guidance and Classroom Management | 3 |
| ED258 | Multicultural Education | 3 |
| HDFS140 | Contemporary American Families | 3 |
| HDFS247 | Child Development 0-8 | 3 |
| | **Credits** | **17** |

| | | |
|---|---|---|
| **Spring** | | |
| ECE209 | Theory and Practice I Pre-K [1] | 3 |
| ECE209B | Practicum II Pre-K [1] | 2 |
| ECE154 | Children's Language and Lit Dev | 3 |
| MTH65 | Algebra II [2] | 4 |
| HDFS222 | Understanding Families: Supporting Diversity Disability and Risk | 3 |
| | **Credits** | **15** |
| | **Total Credits** | **46** |

[1] ECE163 and ECE209 must be taken in sequence with their corequisite practicum courses. Exception granted with instructor approval.

[2] A higher math class can be substituted. Students considering the pursuit of K-12 teaching will be required to take MTH211, MTH212 and MTH213.

# RETAIL MANAGEMENT, LESS THAN ONE YEAR CERTIFICATE OF COMPLETION

The Less Than One Year Certificate of Completion Retail Management is recommended for students who would like to work in retail sales or students who are currently working in retail sales and are interested in advancing in their careers. Upon completion of this certificate, students will demonstrate skills necessary to successfully work in the field of retail sales and be in a position to advance to higher levels of responsibility including supervisory management. Career opportunities include retail clerks, management trainees, sales associates and other similar retail positions.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 30 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade 'C' or better. One course must be completed at Southwestern before the Less Than One Year Certificate of Completion is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Demonstrate effective communication skills including both verbal and written.
- Operate as a team member and/or leader using effective communication strategies.
- Demonstrate computer skills: Word processing, electronic spreadsheet, database management, general accounting applications, presentation software and Internet research techniques.
- Describe the marketing methods including the analysis and inter-relationship of the marketing mix: Product, price, place and promotion.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **Fall** | | |
| BA249 | Retailing | 3 |
| CIS120 | Concepts of Computing | 4 |
| WR115 | Fundamentals of Report Writing [3] | 4 |
| | **Credits** | **11** |
| **Winter** | | |
| BA120 | Leadership Development [1] | 3 |
| BA223 | Principles of Marketing | 4 |
| MTH82 | Business Mathematics [2] | 4 |
| | **Credits** | **11** |
| **Spring** | | |
| BA206 | Management Fundamentals | 4 |
| BA224 | Human Resource Management | 4 |
| | **Credits** | **8** |
| | **Total Credits** | **30** |

[1] BA120, BA285, PSY100, PSY201Z, PSY202Z will satisfy this requirement.

[2] MTH65, MTH95 or higher, excluding MTH211, may be substituted for MTH82.

[3] A higher writing may be substituted excluding WR241, WR242, WR243, WR250.

# WATER QUALITY TREATMENT, ASSOCIATE OF APPLIED SCIENCE

The Water Quality Technology, AAS degree includes five introductory courses in water and wastewater operations, 24-credit hours of related cooperative work, and foundational courses including math, science, and STEM elective courses. The coursework will help prepare for the Level 1 Certification exams. The cooperative work experience is hands on training and is equivalent to approximately 5 months full-time work experience.

## PROGRAM STUDENT LEARNING OUTCOMES

- Define the terms and concepts along with the necessary mathematical skills required to pass the Level I water and wastewater certification examinations
- Describe the maintenance and operation of water treatment, water distribution, wastewater treatment, and wastewater collection systems, related to the operator's job
- Describe laboratory sampling and testing methods approved by regulatory agencies to evaluate water quality and treatment process performance
- Evaluate laboratory analyses and measurements, culminating in the interpreting and reporting or results against industry standards
- Model quantitative water an wastewater relationships using mathematics, equations, and graphs to interpret individual situations and determine plans of action using appropriate industry protocol

## GRADUATION REQUIREMENTS

Students must complete a minimum of 90 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **Prerequisites** | | |
| **Fall** | | |
| Placement into WR121Z or completion of WR90R | | |
| Placement into MTH65 or higher | | |
| | **Credits** | **0** |
| **First Year** | | |
| **Fall** | | |
| BI101 | General Biology [2] | 4 |
| MTH65 | Algebra II [1] | 4 |
| WQT226 | Wastewater Treatment I - Liquids | 3 |
| WQT261 | Water Distribution | 4 |
| WQT280 | CWE: Water Quality Treatment | 1 |
| | **Credits** | **16** |
| **Winter** | | |
| BA285 | Human Relations in Organizations [4] | 3 |
| GS105 | Physical Science [3] | 4 |
| WQT227 | Wastewater Treatment II - Solids | 3 |
| WQT228 | Wastewater Collection Systems | 3 |
| WQT280 | CWE: Water Quality Treatment | 4 |
| | **Credits** | **17** |
| **Spring** | | |
| WR121Z | Composition I | 4 |
| WQT260 | Water Treatment | 3 |
| WQT280 | CWE: Water Quality Treatment | 7 |
| | **Credits** | **14** |
| **Second Year** | | |
| **Fall** | | |
| COMM100Z | Introduction to Communication [5] | 4 |
| WQT280 | CWE: Water Quality Treatment | 4 |
| Specific Elective [6] | | 4 |
| Specific Elective [6] | | 3 |
| | **Credits** | **15** |
| **Winter** | | |
| WQT280 | CWE: Water Quality Treatment | 4 |
| Specific Elective [6] | | 4 |
| Specific Elective [6] | | 3 |
| Specific Elective [6] | | 3 |
| | **Credits** | **14** |
| **Spring** | | |
| WQT280 | CWE: Water Quality Treatment | 4 |
| Specific Elective [6] | | 4 |
| Specific Elective [6] | | 3 |
| Specific Elective [6] | | 3 |
| | **Credits** | **14** |
| | **Total Credits** | **90** |

1. MTH95 or higher may be substituted for MTH65 excluding MTH211.
2. BI102, 103, 201, 202, 203, 234 may be substituted for BI101.
3. CHEM221Z and CHEM227Z may be substituted for GS105.
4. BA120, PSY100, 201, 202, or 203 may be substituted for BA285.
5. COMM111Z, 218Z, or 219 may be substituted for COMM100Z.
6. Specific Electives: NR260, NR201, F222A, F251, GEOG265, ENV235, DRFT110, F223, CHEM110, CS160, CIS125DB, GEOG209, CIS125S.

# WELDING, ASSOCIATE OF APPLIED SCIENCE

The Associate of Applied Science (AAS) Welding provides the training for entry-level employment and offers the technical knowledge necessary for career advancement. Coupled with experience, the program prepares students for manufacturing employment opportunities in industry, private enterprise, supervision, and/or advanced welding technologies. The program will guide the students in developing basic pipe welding and fitting skills and introduces advanced techniques aligned with industry standards. These opportunities include welding, fabrication, inspection, estimating, and technical sales.

According to the American Welding Society, by the year 2020 there will be a skills shortage of 291,000 jobs in the welding and fabrication and related fields.

## ENTRY REQUIREMENTS

Students are required to complete the College's placement process to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with the courses within their skill level as determined by the placement process.

Because a variety of working conditions exist in the welding field, a person generally should be in good physical condition and able to stand, stoop, kneel and bend without difficulty and be able to lift and carry at least 50 pounds. Good eyesight, especially depth perception, is necessary for a welder.

By the second week of the term, students will need to purchase the proper PPE (personal protective equipment) required for the term. Required PPE includes: Welding hood, leathers or welding jacket, gauntlet gloves, safety glasses (clear and shade 5), and leather boots (steel toe is preferred).

The AAS Welding is an American Welding Society (AWS) entry-level welding certified program. Successfully completing the AWS portion of each welding course also qualifies the student for a Certificate of Completion from the AWS as an entry-level welder – a nationally recognized certificate.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 91 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses in this program must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- 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 projects.
- Read and interpret blueprints and American Welding Society standard welding symbols.
- Perform as a team member and practice skills that reflect professional and ethical behavior in the workplace.
- Demonstrate ability to fit, layout, and weld pipe in accordance to industry AWS and API standards.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| DRFT105 | Blueprint Reading For Welders | 3 |
| WLD100 | Cutting Processes | 3 |
| WLD101 | Shielded Metal Arc Welding | 6 |
| MFG105 | Precision Measuring Instruments | 1 |
| WR115 | Fundamentals of Report Writing [1] | 4 |
| | **Credits** | **17** |
| **Winter** | | |
| MTH80 | Technical Mathematics I [2] | 4 |
| WLD102 | Lab A | 3 |
| WLD103 | Gas Metal Arc Welding | 3 |
| WLD104 | Flux Cored Arc Welding | 3 |
| WLD110 | Certification Prep For 1st Year | 3 |
| | **Credits** | **16** |
| **Spring** | | |
| BA285 | Human Relations in Organizations [3] | 3 |
| WLD105 | Pipe Fitting and Welding I | 3 |
| WLD106 | Welding Lab B | 3 |
| WLD107 | Gas Tungsten Arc Welding | 3 |
| WLD150 | Welding & Joining Processes | 3 |
| WLD202 | Forklift Operator Training and Cert | 1 |
| | **Credits** | **16** |
| **Second Year** | | |
| **Fall** | | |
| CIS120 | Concepts of Computing | 4 |
| MT101 | Machine Tool Processes I | 3 |
| WLD201 | Pipe Fitting and Welding II | 3 |
| WLD207 | Gas Tungsten Arc Welding II | 3 |
| | **Credits** | **13** |
| **Winter** | | |
| MFG100 | Industrial Safety | 3 |
| MT102 | Machine Tool Processes II | 3 |
| PE231 | Wellness for Life [4] | 3 |
| WLD203 | Advanced Individual Welding | 3 |

| | | |
|---|---|---|
| WLD204 | Advanced Pipe III | 3 |
| | **Credits** | **15** |
| **Spring** | | |
| WLD205 | The Welding Business | 3 |
| WLD206 | Lab C | 3 |
| WLD210 | Welding Cert for 2nd Year | 3 |
| Specific Elective [5] | | 3 |
| Speech [6] | | 4 |
| | **Credits** | **16** |
| | **Total Credits** | **93** |

1 A higher writing may be substituted excluding WR241, WR242, WR243, WR250.
2 MTH95 or higher, excluding 98, 211-213 maybe substituted for MTH80
3 BA120, BA285, PSY100, PSY201Z, or PSY202Z will satisfy this requirement.
4 PE231, HE250, or three (3) credits of PE185 sport/activity courses will satisfy this requirement.
5 Any MFG, MT, WLD, or DRFT course not otherwise included in the degree to meet the requirement.
6 COMM100Z, COMM111Z, COMM218Z, or COMM219 will satisfy this requirement.

# PIPE FITTING, CAREER PATHWAY CERTIFICATE OF COMPLETION

The Career Pathway Certificate of Completion: Pipe Fitting prepares students for entry-level careers in pipe fitting, welding and fabrication. The program also introduces advanced techniques aligned with industry API and AWS standards.

## ENTRY REQUIREMENTS

Students are required to complete the College's placement process to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with the courses within their skill level as determined by the placement process.

Because a variety of working conditions exist in the welding field, a person generally should be in good physical condition and able to stand, stoop, kneel and bend without difficulty and be able to lift and carry at least 50 pounds. Good eyesight, especially depth perception, is necessary for a welder.

By the second week of the term, students will need to purchase the proper PPE (personal protective equipment) required for the term. Required PPE includes: Welding hood, leathers or welding jacket, gauntlet gloves, safety glasses (clear and shade 5), and leather boots (steel toe is preferred).

## GRADUATION REQUIREMENTS

Students must complete a minimum of 12 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Six (6) credits must be completed at Southwestern before the Career Pathway Certificate of Completion is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Demonstrate ability to fit, layout, and weld pipe in accordance to industry AWS and API standards.

## PRE-PROGRAM COURSES

Students are required to take the following courses *prior to* the program courses, depending on students' college placement information. See advisor for details:

| Code | Title | Credits |
|---|---|---|
| WLD100 | Cutting Processes | 3 |
| WLD101 | Shielded Metal Arc Welding | 6 |
| WLD105 | Pipe Fitting and Welding I | 3 |

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| WLD201 | Pipe Fitting and Welding II | 3 |
| | **Credits** | **3** |
| **Winter** | | |
| WLD204 | Advanced Pipe III | 3 |
| | **Credits** | **3** |
| **Spring** | | |
| WLD150 | Welding & Joining Processes | 3 |
| WLD207 | Gas Tungsten Arc Welding II | 3 |
| | **Credits** | **6** |
| | **Total Credits** | **12** |

# WELDING ASSISTANT, CAREER PATHWAY CERTIFICATE OF COMPLETION

The Career Pathway Certificate of Completion: Welding Assistant prepares students for entry-level jobs in a welding operation as a welder's assistant. Required courses are applicable toward the AAS Welding degree.

## ENTRY REQUIREMENTS

Students are required to complete the College's placement process to determine skill level and readiness in math, reading and writing. As part of

their training program, students must begin with the courses within their skill level as determined by the placement process.

Because a variety of working conditions exist in the welding field, a person generally should be in good physical condition and able to stand, stoop, kneel and bend without difficulty and be able to lift and carry at least 50 pounds. Good eyesight, especially depth perception, is necessary for a welder.

By the second week of the term, students will need to purchase the proper PPE (personal protective equipment) required for the term. Required PPE includes: Welding hood, leathers or welding jacket, gauntlet gloves, safety glasses (clear and shade 5), and leather boots (steel toe is preferred).

## GRADUATION REQUIREMENTS

Students must complete a minimum of 18 credit hours with a minimum Grade Point Average (GPA) of 2.0 or better. All courses in this program must be completed with a grade of 'C' or better. Six (6) credits must be completed at Southwestern before the Career Pathway Certificate of Completion is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Assist with set-up and operation of manual and semi-automatic welding and cutting equipment used in the metal fabrication industry.
- Perform rudimentary layout and fabrication skills to help produce welded metal parts.
- Read and interpret simple blueprints and some American Welding Society standard welding symbols.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **Fall** | | |
| WLD100 | Cutting Processes | 3 |
| WLD101 | Shielded Metal Arc Welding | 6 |
| | **Credits** | **9** |
| **Winter** | | |
| WLD102 | Lab A | 3 |
| WLD103 | Gas Metal Arc Welding | 3 |
| WLD104 | Flux Cored Arc Welding | 3 |
| | **Credits** | **9** |
| | **Total Credits** | **18** |

# WELDING TECHNICIAN, CAREER PATHWAY CERTIFICATE OF COMPLETION

The Career Pathway Certificate of Completion: Welding Technician prepares students for entry-level jobs in welding fields employing shielded metal, fluxed core, and gas metal arc welding techniques. Required courses are applicable toward the Associate of Applied Science (AAS) Welding degree.

## ENTRY REQUIREMENTS

Students are required to complete the College's placement process to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with the courses within their skill level as determined by the placement process.

Because a variety of working conditions exist in the welding field, a person generally should be in good physical condition and able to stand, stoop, kneel and bend without difficulty and be able to lift and carry at least 50 pounds. Good eyesight, especially depth perception, is necessary for a welder.

By the second week of the term, students will need to purchase the proper PPE (personal protective equipment) required for the term. Required PPE includes: Welding hood, leathers or welding jacket, gauntlet gloves, safety glasses (clear and shade 5), and leather boots (steel toe is preferred).

## GRADUATION REQUIREMENTS

Students must complete a minimum of 24 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Six (6) credits must be completed at Southwestern before the Career Pathway Certificate of Completion is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Set-up and operate of manual and semi-automatic welding and cutting equipment used in the welding industry.
- Perform rudimentary layout and fabrication skills to help produce welded metal parts.
- Read and interpret simple blueprints and some American Welding Society standard welding symbols.
- Perform as a team member and practice skills that reflect professional and ethical behavior in the workplace.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| DRFT105 | Blueprint Reading For Welders | 3 |
| WLD100 | Cutting Processes | 3 |
| WLD101 | Shielded Metal Arc Welding | 6 |
| | **Credits** | **12** |
| **Winter** | | |
| WLD102 | Lab A | 3 |
| WLD103 | Gas Metal Arc Welding | 3 |
| WLD104 | Flux Cored Arc Welding | 3 |
| WLD110 | Certification Prep For 1st Year | 3 |
| | **Credits** | **12** |
| | **Total Credits** | **24** |

# WELDING, CERTIFICATE OF COMPLETION

The Certificate of Completion Welding prepares students for entry-level jobs in metal working fields. Required courses are applicable toward the AAS Welding degree.

## ENTRY REQUIREMENTS

Students are required to complete the College's placement process to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with the courses within their skill level as determined by the placement process.

Because a variety of working conditions exist in the welding field, a person generally should be in good physical condition and able to stand, stoop, kneel and bend without difficulty and be able to lift and carry at least 50 pounds. Good eyesight, especially depth perception, is necessary for a welder.

The Certificate of Completion Welding is an American Welding Society (AWS) entry-level welding certified program. Successfully completing the AWS portion of each welding course also qualifies the student for a Certificate of Completion from the AWS as an entry-level welder – a nationally recognized certificate.

By the second week of the term, students will need to purchase the proper PPE (personal protective equipment) required for the term. Required PPE includes: Welding hood, leathers or welding jacket, gauntlet gloves, safety glasses (clear and shade 5), and leather boots (steel toe is preferred).

## GRADUATION REQUIREMENTS

Students must complete a minimum of 48 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twelve (12) credits must be completed at Southwestern before the Certificate of Completion is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- 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 projects.
- Read and interpret blueprints and American Welding Society standard welding symbols.
- Perform as a team member and practice skills that reflect professional and ethical behavior in the workplace.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PROGRAM GUIDE

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| DRFT105 | Blueprint Reading For Welders | 3 |
| WLD100 | Cutting Processes | 3 |
| WLD101 | Shielded Metal Arc Welding | 6 |
| WR115 | Fundamentals of Report Writing [1] | 4 |
| | **Credits** | **16** |
| **Winter** | | |
| WLD102 | Lab A | 3 |
| WLD103 | Gas Metal Arc Welding | 3 |
| WLD104 | Flux Cored Arc Welding | 3 |
| WLD110 | Certification Prep For 1st Year | 3 |
| MTH80 | Technical Mathematics I [3] | 4 |
| | **Credits** | **16** |
| **Spring** | | |
| BA285 | Human Relations in Organizations [2] | 3 |
| WLD105 | Pipe Fitting and Welding I | 3 |
| WLD106 | Welding Lab B | 3 |
| WLD107 | Gas Tungsten Arc Welding | 3 |
| WLD202 | Forklift Operator Training and Cert | 1 |
| WLD150 | Welding & Joining Processes | 3 |
| | **Credits** | **16** |
| | **Total Credits** | **48** |

1. A higher writing may be substituted, excluding WR241, WR242, WR243, and WR250.
2. BA120, BA285, PSY100, PSY201Z, PSY202Z will satisfy this requirement.
3. MTH65, 95, or higher, excluding MTH211, may be substituted.

# WOOD INNOVATION FOR SUSTAINABILITY: ART AND DESIGN, ASSOCIATE OF SCIENCE

Wood Innovation is a multidisciplinary program that prepares students to work with renewable, plant-based materials to solve challenging world problems. Renewable materials such as wood, bamboo, canes, and agricultural fibers are examined to understand their characteristics and how to make useful products. Students gain broad perspectives on current issues associated with the sustainable utilization of renewable materials, including global trade, business innovation, energy production, and environmental impacts.

Students in the art and design option are concerned about wood products on an aesthetic level. This option prepares students to engage with renewable materials on an aesthetic level, whether as interior designers, fine artists or entrepreneurs. Students will gain an in-depth knowledge of how renewable materials can function visually within the human space. In addition, students will achieve an understanding of green building materials and green architecture.

This degree was designed to transfer to Oregon State University's College of Forestry. Other transfer options may be available, consult your advisor for details.

The forestry field is projected to have many career opportunities coming up in the next decade as many forestry and natural resources professionals retire in the next few years. Students who enjoy working outdoors and want to have a career that focuses on managing our valuable forest lands to conserve and protect resources as well as produce valuable products for society should consider this degree.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 90 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the AS degree is awarded.

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

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Demonstrate ability to find, compile, analyze, and communicate technical information.
- Demonstrate basic skills in art and design, sculpture, forest biology, chemistry, and spreadsheet applications.
- Demonstrate basic understanding of complexity between renewable materials, aesthetics, and environmentalism.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| CHEM221Z | General Chemistry I | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |
| F111 | Introduction to Forestry | 3 |
| WR121Z | Composition I | 4 |
| | **Credits** | **12** |
| **Winter** | | |
| BA169Z | Data Analysis Using Microsoft Excel | 4 |
| CHEM222Z | General Chemistry II | 4 |
| CHEM228Z | General Chemistry II Laboratory | 1 |
| F250 | Forest Biology | 4 |
| MTH241 | Calculus for Bus and Soc Science I (Or Higher) | 4 |
| | **Credits** | **17** |
| **Spring** | | |
| COMM111Z | Public Speaking | 4 |
| PE231 | Wellness for Life | 3 |
| WR227Z | Technical Writing | 4 |
| Difference, Power, and Discrimination [2] | | 3 |
| | **Credits** | **14** |
| **Second Year** | | |
| **Fall** | | |
| ART115 | Basic Design I Intro to Elements of Art and Principles of Design | 4 |
| ART131 | Introduction to Drawing I | 3 |
| ART291 | Sculpture | 3 |
| DRFT110 | Computer Assisted Drafting I | 3 |
| Literature and Arts [3] | | 3 |
| | **Credits** | **16** |
| **Winter** | | |
| ART110 | Digital Photography I | 3 |
| DRFT111 | Computer Assisted Drafting II | 3 |
| F180<br>or NR180 | Internship: Forestry [6]<br>or Internship: Natural Resources | 3 |
| STAT243Z | Elementary Statistics I | 4 |
| Social Processes and Institutions [5] | | 3 |
| | **Credits** | **16** |
| **Spring** | | |
| ART117 | Basic Design III, Intro to 3D Desgn | 4 |
| ART232 | Drawing II | 3 |
| DRFT112 | Computer Assisted Drafting III | 3 |
| Cultural Diversity [4] | | 3 |

| | |
|---|---|
| Specific Elective [1] | 3 |
| **Credits** | **16** |
| **Total Credits** | **91** |

1. A total of 7 credits of F or NR courses not already required for the degree may be taken in any term.
2. Difference, Power, and Discrimination - options: HST201, HST202, HST203, SOC206 , SOC213
3. Literature and the Arts: ART204, ART205, ART206, ENG104Z, ENG105Z, ENG106Z, ENG107, ENG108, ENG109, ENG201, ENG204, ENG205, ENG206, ENG262, MUS201, MUS202, MUS203.
4. Cultural Diversity: ANTH224, ANTH230, ANTH231, ANTH232, or HST104.
5. Social Processes and Institutions: ANTH221 , ANTH222, ANTH223 , ECON201Z, ECON202Z, HST101, HST102, HST103, PS201, PS205, PSY201Z , PSY202Z , PSY203 , SOC204Z, SOC205Z will satisfy this requirement.
6. Schedule an appointment with the Internship Coordinator a month prior to term. 541-888-7405.

# WOOD INNOVATION FOR SUSTAINABILITY: MARKETING AND MANAGEMENT, ASSOCIATE OF SCIENCE

Wood Innovation is a multidisciplinary program that prepares students to work with renewable, plant-based materials to solve challenging world problems. Renewable materials such as wood, bamboo, canes, and agricultural fibers are examined to understand their characteristics and how to make useful products. Students gain broad perspectives on current issues associated with the sustainable utilization of renewable materials, including global trade, business innovation, energy production, and environmental impacts.

The marketing and management option provides students with the skills to manage organizations or devise new marketing strategies to compete in the global wood products industry.

This degree was designed to transfer to Oregon State University's College of Forestry. Other transfer options may be available, consult your advisor for details. Check out the Forestry/Natural Resources program website!

The forestry field is projected to have many career opportunities coming up in the next decade as many forestry and natural resources professionals retire in the next few years. Students who enjoy working outdoors and want to have a career that focuses on managing our valuable forest lands to conserve and protect resources as well as produce valuable products for society should consider this degree.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 90 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

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

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Demonstrate ability to find, compile, analyze, and communicate technical information.
- Demonstrate basic skills in marketing, business management, forest biology, dendrology, chemistry, and spreadsheet applications.
- Demonstrate basic understanding of complexity between renewable materials, environmentalism, and business.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

## PRE- PROGRAM REQUIREMENTS

Placement into MTH241 or completion of prerequisites.

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| CHEM221Z | General Chemistry I | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |
| F111 | Introduction to Forestry | 3 |
| WR121Z | Composition I | 4 |
| Western Culture [3] | | 3 |
| | **Credits** | **15** |
| **Winter** | | |
| CHEM222Z | General Chemistry II | 4 |
| CHEM228Z | General Chemistry II Laboratory | 1 |
| BA169Z | Data Analysis Using Microsoft Excel | 4 |
| F250 | Forest Biology | 4 |
| Literature and the Arts [2] | | 3 |
| | **Credits** | **16** |
| **Spring** | | |
| COMM111Z | Public Speaking | 4 |
| PE231 | Wellness for Life | 3 |
| WR227Z | Technical Writing | 4 |
| Difference, Power, and Discrimination [5] | | 3 |
| | **Credits** | **14** |
| **Second Year** | | |
| **Fall** | | |
| BA250 | Applied Entrepreneurship | 3 |
| DRFT110 | Computer Assisted Drafting I | 3 |
| ECON201Z | Principles of Microeconomics | 4 |

| | | |
|---|---|---|
| F180 or NR180 | Internship: Forestry [6] or Internship: Natural Resources | 2 |
| Cultural Diversity [4] | | 3 |
| | **Credits** | **15** |
| **Winter** | | |
| BA212 | Principles of Accounting II | 4 |
| DRFT111 | Computer Assisted Drafting II | 3 |
| ECON202Z | Principles of Macroeconomics | 4 |
| MTH241 | Calculus for Bus and Soc Science I [1] | 4 |
| | **Credits** | **15** |
| **Spring** | | |
| BA213Z | Principles of Managerial Accounting | 4 |
| BA226Z | Introduction to Business Law | 4 |
| DRFT112 | Computer Assisted Drafting III | 3 |
| F241 | Dendrology | 5 |
| | **Credits** | **16** |
| | **Total Credits** | **91** |

1 MTH241 or higher will satisfy this requirement, excluding STAT243Z or STAT243Z and MTH244.

2 Literature and the Arts: ART204, ART205, ART206, ENG104Z, ENG105Z, ENG106Z, ENG107, ENG108, ENG109, ENG201, ENG204, ENG205, ENG206, ENG262, MUS201, MUS202, MUS203.

3 Western Culture: ART204, ART205, ART206, ENG107, ENG108, ENG109, ENG201, ENG204, ENG205, ENG206, HST101, HST102, HST103, HST201, HST202, HST203, MUS201, MUS202, MUS203, PHL101, PHL102.

4 Cultural Diversity: ANTH224, ANTH230, ANTH231, ANTH232, HST104, HUM204, HUM205, HUM206

5 Difference, Power, and Discrimination: HST201, HST202, HST203, SOC206 , SOC213

6 Schedule an appointment with the Internship Coordinator a month prior to term. 541-888-7405.

* At least two courses must be chosen from the Arts and Letters section from the AS course list (p. 51) to meet the above requirements.

# WOOD INNOVATION FOR SUSTAINABILITY: SCIENCE AND ENGINEERING, ASSOCIATE OF SCIENCE

Wood Innovation is a multidisciplinary program that prepares students to work with renewable, plant-based materials to solve challenging world problems. Renewable materials such as wood, bamboo, canes, and agricultural fibers are examined to understand their characteristics and how to make useful products. Students gain broad perspectives on current issues associated with the sustainable utilization of renewable materials, including global trade, business innovation, energy production, and environmental impacts.

The science and engineering option focuses on science, technology and engineering when it comes to working with wood products. Students gain a strong understanding of where wood products come from, and test renewable materials to determine how we can use them in new and innovative ways. Students learn in woodshops, labs and even test materials in our climate rooms and earthquake testing room.

This degree was designed to transfer to Oregon State University's College of Forestry. Other transfer options may be available, consult your advisor for details. Check out the Forestry/Natural Resources program website!

The forestry field is projected to have many career opportunities coming up in the next decade as many forestry and natural resources professionals retire in the next few years. Students who enjoy working outdoors and want to have a career that focuses on managing our valuable forest lands to conserve and protect resources as well as produce valuable products for society should consider this degree.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 93 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

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

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Demonstrate ability to find, compile, analyze, and communicate technical information.
- Demonstrate basic skills in engineering, forest biology, chemistry, business acumen, physics, and spreadsheet applications.
- Demonstrate basic understanding of complexity between renewable materials, business, and environmentalism.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

| Code | Title | Credits |
|---|---|---|
| BA211Z | Principles of Financial Accounting | 4 |
| MTH251Z | Differential Calculus | 4 |
| MTH252Z | Integral Calculus | 4 |

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| CHEM221Z | General Chemistry I | 4 |
| CHEM227Z | General Chemistry I Laboratory | 1 |
| ENGR111 or ENGR211 | Intro to Engineering or Statics | 3 |
| F111 | Introduction to Forestry [5] | 3 |
| WR121Z | Composition I | 4 |

| | | |
|---|---|---|
| Literature and the Arts [1] | | 3 |
| | **Credits** | **18** |
| **Winter** | | |
| BA212 | Principles of Accounting II | 4 |
| CHEM222Z | General Chemistry II | 4 |
| CHEM228Z | General Chemistry II Laboratory | 1 |
| CIS125S | | 3 |
| F250 | Forest Biology | 4 |
| | **Credits** | **16** |
| **Spring** | | |
| BA213Z | Principles of Managerial Accounting | 4 |
| CHEM223Z | General Chemistry III | 4 |
| CHEM229Z | General Chemistry III Laboratory | 1 |
| COMM111Z | Public Speaking | 4 |
| PE231 | Wellness for Life | 3 |
| WR227Z | Technical Writing | 4 |
| | **Credits** | **20** |
| **Second Year** | | |
| **Fall** | | |
| BA226Z | Introduction to Business Law | 4 |
| ECON201Z | Principles of Microeconomics | 4 |
| PH201<br>or PH211 | General Physics I: Mechanics<br>or General Physics with Calculus I | 5 |
| | **Credits** | **13** |
| **Winter** | | |
| Cultural Diversity [3] | | 3 |
| ECON202Z | Principles of Macroeconomics | 4 |
| PH202<br>or PH212 | General Physics II: Heat, Waves, Relativity<br>or General Physics with Calculus II | 5 |
| | **Credits** | **12** |
| **Spring** | | |
| MTH254 | Vector Calculus I [6] | 4 |
| PH203<br>or PH213 | Gen Physics III: Elect & Magnetism<br>or General Physics with Calculus III | 5 |
| Western Culture [4] | | 3 |
| Difference, Power, and Discrimination [2] | | 3 |
| | **Credits** | **15** |
| | **Total Credits** | **94** |

1. Literature and the Arts: ART204, ART205, ART206, ENG104Z, ENG105Z, ENG106Z, ENG107, ENG108, ENG109, ENG201, ENG204, ENG205, ENG206, ENG262, MUS201, MUS202, MUS203.
2. Difference, Power, and Discrimination: HST201, HST202, HST203, SOC206 , SOC213
3. Cultural Diversity: ANTH224, ANTH230, ANTH231, ANTH232, HST104, HUM204, HUM205, HUM206
4. Western Culture: ART204, ART205, ART206, ENG107, ENG108, ENG109, ENG201, ENG204, ENG205, ENG206, HST101, HST102, HST103, HST201, HST202, HST203, MUS201, MUS202, MUS203, PHL101, PHL102.
5. NR201 may be substituted for F111.
6. MTH254 or higher will satisfy this requirement.

# COURSE DESCRIPTIONS

## A



## B



## C



## D



## E



## F



## G



## H



## J



## L



## M



## N



## P



## S



## T



## W



# COURSE/CREDIT TYPES

**Lower Division Collegiate Transfer (LDC)** courses are those that will transfer to four-year schools in Oregon, four-year public institutions, and apply towards a bachelor's degree. Generally, transfer courses will have a departmental prefix and a three-digit number 100 through 299.

**Developmental Education (DEV)** courses are designed to help a student gain skill and knowledge before taking college-level courses. These

courses will generally have a departmental prefix and a two- or four-digit number.

**Career Technical Education (CTE)** courses will vary, but will have a departmental prefix and a two-, three-, or four-digit number. Because course numbers vary, students planning to transfer to four-year institutions should follow the course selections shown under the Associate of Arts Oregon Transfer (AA/OT) requirements, as well as consult with their advisor. Career Technical Education courses may have limitations in degrees.

**Non-credit** courses are generally offered for community interest, personal enrichment, and professional development. The content is generally not applicable toward a certificate, diploma, or degree, and courses are not always transcribed.

**Continuing Education Units (CEU)** are a nationally recognized unit granted for educational experiences to upgrade a person's skills in a particular profession or occupation. Courses developed to meet these needs are often approved through a professional licensing agency or a state or regional board. The units are not convertible to college credit.

**Professional Development Units (PDU)** activities may include a program, course, workshop, seminar, or other pre-approved learning experience. For a course to be eligible for PDU credit and for the activity to be transcribed by the College, it must meet specific criteria.

**Foreign Language Requirement** effective for everyone graduating from high school in 1997 (and thereafter). All Oregon four-year public institutions require two years of high school second language for admission. This admission requirement can also be satisfied by two quarters (or semesters) of a college-level second language or demonstrated proficiency in a second language. For additional information, contact an advisor.

**Common Course Numbering (Z)** courses are guaranteed to transfer to other public institutions within Oregon. They are the following courses: MTH105Z, MTH111Z, MTH112Z, COMM100Z, COMM111Z, COMM218Z, STAT243Z, WR121Z, WR122Z, and WR227Z.

| Code | Description |
|---|---|
| ABE | Academic Skills |
| AG | Agroecology |
| AH | Allied Health |
| ANTH | Anthropology |
| ART | Art |
| ASL | American Sign Language |
| BA | Business Administration |
| BI | Biology |
| CHEM | Chemistry |
| CIS | Computer Information Systems |
| CJ | Criminal Justice |
| COMM | Communication |
| CRT | Culinary Arts |
| CS | Computer Science |
| DEN | Dental |
| DRFT | Drafting |
| ECE | Early Childhood Education |
| ECON | Economics |
| ED | Education |
| EM | Emergency Management |
| EMT | Emergency Medical Technician |
| ENG | English/Literature |
| ENGR | Engineering |
| ENV | Environmental Technology |
| ESL | English as a Second Language |
| F | Forestry |
| FN | Nutrition |
| FS | Fire Science |
| G | Geology |
| GEOG | Geography |
| GS | General Science |
| HD | Human Development |
| HDFS | Human Development & Family Studies |
| HE | Health & First Aid/Health Occupations |
| HIM | Health Information Management |
| HON | Honors Program |
| HS | Human Services |
| HST | History |
| HUM | Humanities |
| J | Journalism |
| MFG | Manufacturing Technology |
| MT | Machine Tool Technology |
| MTH | Mathematics |
| MUP | Music Performance |
| MUS | Music |
| NR | Natural Resources |
| NRS | Nursing |
| NUR | Nursing - CNA |
| PE | Physical Education |
| PH | Physics |
| PHAR | Pharmacy Technician |
| PHL | Philosophy |
| PS | Political Science |
| PSY | Psychology |
| SOC | Sociology |
| SP | Speech |
| SPAN | Spanish |
| STAT | Statistics |
| TA | Theatre |
| WLD | Welding Technology |
| WR | Writing |
| WQT | Water Quality Treatment |

# COURSE NUMBERING SYSTEM

**COURSES NUMBERED 0100-0499** (not section numbers) do not carry grades or credit. Tuition is charged per clock hour.

**COURSES NUMBERED 0500-1999** may be graded (letter grade) or ungraded (pass/fail) or audit only. These courses may be credit or noncredit. Courses numbered 0500-1999 may not be applied toward a Southwestern degree or certificate unless stated in specific AAS curriculums.

**COURSES NUMBERED 2000-9999**, without a career technical alpha prefix and that carry credit, may be used only as an elective for an AAS or certificate (excluding those listed as Developmental Education courses).

**COURSES NUMBERED 2000-9999** may be graded or ungraded and may carry credit applicable to a Southwestern career technical degree or certificate. Career technical certificate/degree programs provide up to two years of specialized education designed to prepare the student for career-entry.

**COURSES NUMBERED 100-299** are acceptable for a Southwestern degree or certificate and may or may not be eligible for transfer to four-year institutions. However, students should be aware the course or courses may be accepted as elective credit only or not at all if the credits do not fit in the student's major discipline or major. Transfer acceptability is at the discretion of the receiving institution.

Career Technical Education (CTE) courses identified by the following course alpha prefixes *may* not transfer to a four-year institution. Specific transfer articulation agreements may exist. The interested student should consult with the appropriate staff at the four-year institution. Up to 12 credits of CTE courses numbered 100 and above may be used as elective credit toward the AAOT degree.

The following departments are known to have career technical education courses at Southwestern Oregon Community College:

# DEVELOPMENTAL EDUCATION COURSES

Developmental Education (DEV) courses, although they may be required by placement scores, do not fulfill any Southwestern degree or certificate requirements. Developmental Education courses build appropriate skills enabling students to be successful in college-level courses.

# COURSE NUMBER CHANGE

In the event a course number has been changed from a career technical number to a college-level number, the college-level number will appear on the permanent record only for those who took the class after the change was approved.

# COMMON COURSE NUMBERING

Common Course Numbering (Z) courses are guaranteed to transfer to other public institutions within Oregon. They are the following courses: MTH105Z, MTH111Z,
MTH112Z, COMM100Z, COMM111Z, COMM218Z, WR121Z,
WR122Z, WR227Z, BA101Z, BA211Z, BA213Z, ENG104Z,
ENG105Z, ENG106Z, PSY201Z, and PSY202Z.

# AGROECOLOGY (AG)

**AG101 Introduction To Agroecology** 5 credits (3 lec, 4 lec lab hrs/wk)
An introductory course in the principles and concepts of agroecology. This course will examine the biological and physical attributes of farming and land management systems and their associated ecological and social impacts. Students will look at the scope of career opportunities and skills necessary to succeed in job pathways in the wide field of agriculture. Topics will examine our local food systems, as well as the ecological results from conventional globalized agriculture, to agrarian methods, and indigenous food and fiber production systems. This is the first in the series of Agroecology courses. These courses will have a large hands-on component with field trips, and outdoor labs at the campus instructional garden.
This course may be taken 1 time for credit.
Course classification: CTE

**AG102 Agroecology II** 5 credits (3 lec, 4 lec lab hrs/wk)
Prerequisite(s): ( AG101 )
The second course in the Agroecology series, introducing the strategies and examining the principles of agroecology. The topics include the regulatory agencies and regulations, ethics and responsibilities, appropriate tools and technologies, and best practices. We will look at applied practices such as agroforestry systems, rotational grazing, and orchard maintenance. The lab section will be working in the instructional garden and on field trips. Students will be getting hands on winter season crop, farm, and land maintenance skills.
This course may be taken 1 time for credit.
Course classification: CTE

**AG103 Agroecology III** 5 credits (3 lec, 4 lec lab hrs/wk)
Prerequisite(s): ( AG102 )
The third course in the Agroecology series, provides experiences applying strategies to build on the concepts and principles from previous courses. Projects will include spring crop production and field trips to implement and practice skills. Students will demonstrate skills to make them more competitive in agricultural industries such as teamwork, problem solving, and best practices. The course will include a case study of local, national, and global agroecosystems. The lab will have a large hands-on component with field trips, and outdoor labs in the instructional garden.
This course may be taken 1 time for credit.
Course classification: CTE

**AG120 Gardening The South Coast** 1 credit (3 lab hrs/wk)
Applied gardening course focusing on sustainable vegetable production and organic practices for students interested in growing and sharing healthy and nutritious foods. Students will gain hands on experience with the proper selection and use of tools, production, harvesting, processing, and preparation of the variety of crops grown on the Southern Oregon Coast. Topics cover how to have a successful garden by building healthy soils, season extension techniques, proper pruning and planting times, and selection of seed.
This course may be taken 1 time for credit.
Course classification: CTE

**AG150 Applied Plant Biology** 3 credits (2 lec, 2 lec lab hrs/wk)
An introduction to plant science that examines agriculture, landscaping, and other significant uses of plants. Emphasizes structure, growth, physiology and reproduction of plants and their responses to changes in the environment. This course applies the principles of plant science to agricultural systems. Topics covered are plant taxonomy, plant reproduction and breeding, the role of soil and water, and the of use scientific literature for applied plant and crop issues.
This course may be taken 1 time for credit.
Course classification: CTE

**AG180 Agroecology Internship** 1-12 credits
An individualized assignment with a professional, industry partner, or agency to provide a guided field experience
This course may be taken 1 time for credit.
Course classification: CTE

**AG201 Horticulture Science** 4 credits (3 lec, 2 lec lab hrs/wk)
Horticulture is the science and art of cultivating fruits, vegetables, and ornamental plants. This course covers the principles of plant growth and development relating to production of annual and perennial food crops and native plants. Historical, economic, and global importance of horticultural crops and services. Topics will range from general plant propagation techniques, seed saving, to grafting for orchards, depending on student interest and industry need.
This course may be taken 1 time for credit.
Course classification: CTE

**AG202 Ecological Pest Management** 4 credits (3 lec, 2 lec lab hrs/wk)
Ecological pest management is a course designed around ecological strategies farmers use to manage pests, weeds, and diseases. EPM not only results in few pesticide applications but it also creates a healthier and more sustainable farm overall. This course will cover some of the most effective approaches including promoting biodiversity on the farm, rotating crops, conserving habitat for beneficial insects, and using practices that improve soil health. Learn about problem pests through identification and monitoring. The course will also compare a variety of management strategies such as integrated pest management practices as part of the holistic approach to pest management. The course will also explore the least toxic pest control strategies, labeling, formulations, and safe handling techniques.
This course may be taken 1 time for credit.
Course classification: CTE

**AG203 Plant Ecology Of The Pacific Northwest** 4 credits (3 lec, 2 lec lab hrs/wk)
This course is designed to introduce students to the basic concepts of plant ecology. The focus will be on the Pacific Northwest ecology covering plant-environment relations, plant species interactions, plant community concepts, and the role of plants in ecosystem processes. Plant Ecology is a basic course that provides a broad foundation in ecology that is relevant to many agriculture and natural resource issues.
This course may be taken 1 time for credit.
Course classification: CTE

**AG204 Mushroom Cultivation** 3 credits (2 lec, 2 lec lab hrs/wk)
This course will introduce the methods of growing edible mushrooms. With a focus on low-technology, outdoor growing techniques. The history of mushroom production, recent trends, and resources for sourcing materials will be discussed. The concepts of sterile and laboratory techniques will be introduced. Students will gain hands-on experience with substrate preparation, composting, and spawn generation techniques.
This course may be taken 1 time for credit.
Course classification: CTE

**AG205 Ecological Landscape Design** 3 credits (2 lec, 2 lec lab hrs/wk)
This course applies agroecology and regenerative practices for urban to rural landscape areas. Students will conduct site evaluations and draft a concept and design. Topics will include surveying of ecosystem services, principles of design and space, pollinators, native landscaping, rain gardens, and bioswales.
This course may be taken 1 time for credit.
Course classification: CTE

**AG277 Agroecology Capstone** 2 credits (2 lec hrs/wk)
An independent Agricultural project carried out in concert with industry professionals or Instructor of Record. Students develop a project highlighting their program completion achievements. Throughout this course the student will be guided towards integrating their learning using a variety of activities such as reflecting, documenting, interviewing, volunteering, or taking part in other academic or community based events.
This course may be taken 1 time for credit.
Course classification: CTE

**AG280 Cooperative Work Experience- Agroecology** 1-12 credits
An individualized assignment with a professional, industry partner, or agency to provide a guided field experience
This course may be taken 1 time for credit.
Course classification: CTE

# ALLIED HEALTH (AH)

**AH111 Medical Terminology I** 3 credits (3 lec hrs/wk)
This course provides the student with the basic knowledge of building medical terms with root words, suffixes and prefixes. Also provides medical terminology related to the body as a whole; the skeletal, muscular, cardiovascular, lymphatic and immune, respiratory and digestive systems.
This course may be taken 1 time for credit.
Course classification: LDC

**AH112 Medical Terminology II** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( AH111 )
Medical Terminology II is a continuation of Medical Terminology I; to include terminology and abbreviations related to the urninary, nervous intequementary, endocrine, and reproductive systems as well as special senses, diagnostic procedures and pharmacology. Each system outline will include functions and components, suffixes, prefixes, anatomic reference points, and terminology (diagnostic, symptomatic, and operative) pertinent to that system.
This course may be taken 1 time for credit.
Course classification: LDC

**AH121 Body Structures and Functions I** 3 credits (3 lec hrs/wk)
This course is an introduction to human anatomy and physiology. It is designed for medical office students, pharmacy technicians and other students who desire a broad review of body systems. Normal structure and functions of the human body system, characteristics of the cell as the basis for life and organization of tissues and organs will be covered.
This course may be taken 1 time for credit.
Course classification: CTE

**AH122 Body Structures and Functions II** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( AH121 )
This course is an introduction to human anatomy and physiology. It is designed for medical office students, pharmacy technicians and other students who desire a broad review of body systems. Normal structure and functions of the human body systems, characteristics of the cell as the basis for life and organization of tissues and organs will be covered.
This course may be taken 1 time for credit.
Course classification: CTE

**AH131 Clinical Procedures I** 4 credits (3 lec, 2 lec lab hrs/wk)
Prerequisite(s): ( AH112 and AH122 ) or ( AH112 and BI233 )
This course is to provide clinical orientation, initial instruction, and basic skills for a medical/clerical assistant. It will also provide in-depth simulation of office nurse duties. This will prepare the medical office assistant to substitute for the physician's nurse, without major changes in office routine for the safety, security, and comfort of the patient, physician and the medical assistant.
This course may be taken 1 time for credit.
Course classification: CTE

**AH132 Clinical Procedures II** 4 credits (3 lec, 2 lec lab hrs/wk)
Prerequisite(s): ( AH131 )
This course provides theoretical knowledge, skills and practical experience which enables the student to attain and maintain safe, intelligent, quality patient care under supervision of licensed personnel. Emphasis on medical and surgical aspects in preparation for office surgery is stressed. Primarily for students already employed in the health care field.
This course may be taken 1 time for credit.
Course classification: CTE

**AH150 Medical Office Coding** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( AH111 )
Medical Office Coding provides the student with a basic knowledge of the fundamental coding systems used between the medical community and the insurance carriers, private and government. Includes coding health related conditions and diseases, descriptive terms, and abbreviations of reporting medical services and procedures performed by physicians and other coding systems.
This course may be taken 1 time for credit.
Course classification: CTE

**AH151 Reimbursement Management** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( AH111 )
This course teaches students medical insurance terminology and provides familiarity with various types of insurance programs. Content covers insurance claim processing with an introduction to forms, assignment and coordination of benefits, credit and collection procedures with federal and Oregon laws credit applications, basic billing cycles, and an introduction to coding.
This course may be taken 1 time for credit.
Course classification: CTE

**AH152 Medical Law and Ethics** 2 credits (2 lec hrs/wk)
Medical Law and Ethics is a survey of the manner in which the law and codes of ethics affect the practice of health occupations paraprofessionals. An introduction to the concepts of litigation, consent, introduction to law, ethics and bioethics, genetic, engineering, sterilization, abortion, and death and dying.
This course may be taken 1 time for credit.
Course classification: CTE

**AH180 Internship: Allied Health** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

**AH280 CWE: Allied Health** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore a variety of workplaces in which to apply that knowledge.
This course may be taken 12 times for credit.
Course classification: LDC

**AH280A CWE: Allied Health Front Office** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore a variety of workplaces in which to apply that knowledge.
This course may be taken 12 times for credit.
Course classification: LDC

**AH280B CWE: Allied Health Back Office** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore a variety of workplaces in which to apply that knowledge.
This course may be taken 12 times for credit.
Course classification: LDC

**AH297 NHA Licensure Qualification** 4 credits (4 lec hrs/wk)
This instructor supported online seminar will prepare MA's who have, or are successfully completing a state-approved medical assistant program but still need to take a national certification exam. The seminar will lead the student though a review of program topics, and impart updated information on topics that may be included in a national certification exam. Participants will learn the preparation and test-taking techniques required to complete a certification type exam. The course end point will be to successfully complete a national certification exam.
This course may be taken 1 time for credit.
Course classification: CTE

# AMERICAN SIGN LANGUAGE (ASL)

**ASL101 1st Yr American Sign Language I** 4 credits (4 lec hrs/wk)
Introduces the natural, signed language of American Deaf people. Includes instruction in proper sign formation, American Sign Language (ASL) grammar and vocabulary, expressive and receptive skills. Emphasis on history of ASL, the Deaf community in North America, and Deaf education. Must be taken in sequence.
This course may be taken 1 time for credit.
Course classification: LDC

**ASL102 1st Yr American Sign Language II** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( ASL101 )
Continues instruction in the natural, signed language of American Deaf people. Includes instruction in proper sign formation, American Sign Language (ASL) grammar and vocabulary, expressive and receptive skills. Emphasis on history of ASL, the Deaf community in North America, and Deaf education. Must be taken in sequence.
This course may be taken 1 time for credit.
Course classification: LDC

**ASL103 1st Yr American Sign Language III** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( ASL102 )
Continues instruction in the natural, signed language of American Deaf people. Includes instruction in proper sign formation American Sign Language (ASL) grammar and vocabulary, expressive and receptive skills. Emphasis on history of ASL, the Deaf community in North America and Deaf education. Must be taken in sequence.
This course may be taken 1 time for credit.
Course classification: LDC

**ASL180 Internship: American Sign Language** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

**ASL201 2nd Yr American Sign Language I** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( ASL103 )
Continues instruction in culturally-appropriate use of American Sign Language (ASL) to communicate in the Deaf community. Introduces advanced vocabulary and grammatical aspects of ASL, including temporal aspect and locative and semantic classifiers. Must be taken in sequence.
This course may be taken 1 time for credit.
Course classification: LDC

**ASL202 2nd Yr American Sign Language II** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( ASL201 )
Continues instruction in American Sign Language (ASL). Includes interactive events and everyday use of the language. Introduces new vocabulary, descriptive locative and instrument classifiers, and description and identification of objects. Must be taken in sequence.
This course may be taken 1 time for credit.
Course classification: LDC

**ASL203 2nd Yr American Sign Language III** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( ASL202 )
Continues instruction in American Sign Language (ASL). Introduces new vocabulary, durative and temporal aspects, and element classifiers. Further practice of everyday use of the language. Must be taken in sequence.
This course may be taken 1 time for credit.
Course classification: LDC

**ASL280 CWE: American Sign Language** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore a variety of workplaces in which to apply that knowledge.
This course may be taken 12 times for credit.
Course classification: LDC

# ANTHROPOLOGY (ANTH)

**ANTH180 Internship: Anthropology** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

**ANTH201 Physical Anthropology and Evolution** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( WR90R )
This course is an introduction to the field of physical/biological anthropology, with an emphasis on the evolution of and analysis of human variation. The course discusses the perspectives and methods of heredity, paleoanthropology, and primatology in order to trace and explain human evolution from the first primates and hominids to the development of bipedalism and the emergence of anatomically modern humans (Homo sapiens).
This course may be taken 1 time for credit.
Course classification: LDC

**ANTH202 Introduction to Archaeology** 3 credits
Prerequisite(s): ( WR90R )
This course introduces students to the archaeology and prehistory of the world and archaeological method and theory. It examines the transition of human societies from hunting and gathering to farming and the beginning of urban life through prehistoric and historic archaeology, techniques of fieldwork, analysis and dating, development of cultural stages, and civilizations of the Old and New Worlds.
This course may be taken 1 time for credit.
Course classification: LDC

**ANTH203 Language and Culture** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( WR90R )
This course is an introduction to the anthropological sub-field of linguistics. It explores how language shapes the relationship between individuals and society; the ways in which language constitutes thought, power relations, identity, and communities; and how language and culture change over time and space.
This course may be taken 1 time for credit.
Course classification: LDC

**ANTH208 Ethnographic Methods** 3 credits (3 lec hrs/wk)
This course introduces students to ethnographic methods through an experiential approach to learning. We explore the connection between anthropological theory and method, while examining the politics and possibilities associated with engaged ethnographic research. Students will select a research topic and field site, develop a research design, conduct fieldwork, code and analyze data, and summarize their findings. Throughout, they will gain a comparative understanding of cultural values and practices and how people's everyday lives are mutually constituted through global and local relations.
This course may be taken 1 time for credit.
Course classification: LDC

**ANTH221 Intro to Cultural Anthropology** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( WR90R )
Introduction to Cultural Anthropology. This course discusses the meaning of culture, its processes of growth and expansion, its significance for human beings, and its diverse forms and degrees of elaboration among different groups of people. The course introduces students to the theories, concepts, and methods used in cultural anthropology to understand and explain the cultural diversity seen around the world. May be taken independently of ANTH 222/223.
This course may be taken 1 time for credit.
Course classification: LDC

**ANTH222 Cultural Anthropology II** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( WR90R )
Cultural Anthropology II - Cultural Identities and Relations of Power. A continuation of the major topics explored in ANTH 221/223, including cultural identities, family and gender relations, race and ethnicity, poverty and inequality, and cultural production and change over time. May be taken independently of ANTH 221/223.
This course may be taken 1 time for credit.
Course classification: LDC

**ANTH223 Cultural Anthropology III** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( WR90R )
Cultural Anthropology III - Development and Globalization. A continuation of the major topics explored in ANTH 221/222, including colonialism; the meaning of progress and development; globalization, neoliberalism and the state; identity; migration; climate change; and applied anthropology. May be taken independently of ANTH 221/222.
This course may be taken 1 time for credit.
Course classification: LDC

**ANTH224 Intro to Medical Anthropology** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( WR90R )
Medical Anthropology is concerned with the cross-cultural study of culture, health, and illness. The course introduces student to theoretical orientations and key concepts of medical anthropology, the cross-cultural diversity of health beliefs and practices, cultural aspects of ethnomedicine and biomedicine, and contemporary issues and special populations such as AIDS, homelessness, cancer, women's health, and children at risk.
This course may be taken 1 time for credit.
Course classification: LDC

**ANTH230 Native North Americans: Oregon** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( WR90R )
A survey of prehistoric and historic cultures in Oregon and contemporary Native American issues. This course introduces various tribes of Native Americans in Oregon. Cultural practices, survival strategies, migrations, trade, and cultural change are explored through the findings of archaeology, linguistics, ethnology, historical documents, and contemporary tribal members. May be taken independently of ANTH 231/232.
This course may be taken 1 time for credit.
Course classification: LDC

**ANTH231 Native North Americans: PNW** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( WR90R )
Examines Native American cultures in the Pacific Northwest from prehistoric to modern times. Archaeological findings and recent developments are discussed including the origins and development of art forms and fishing technology. May be taken independently of ANTH 230/232.
This course may be taken 1 time for credit.
Course classification: LDC

**ANTH232 Native North Americans** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( WR90R )
A broad overview of the earliest inhabitants of North America, including the traditional lifestyles, languages, and customs of selected Native American cultures on the continent. Emphasis is placed on Native American peoples and cultures, diversity of cultural adaptation, European contact, and Native American history (ancient and contemporary). May be taken independently of ANTH 230/231.
This course may be taken 1 time for credit.
Course classification: LDC

**ANTH250 Field Studies - Anthropology** 3 credits (3 lec hrs/wk)
This course provides students with hands on experience conducting social science research in a field setting. Fieldsites will vary annually and will include opportunities for international travel. Students will study a range of topics in the respective locations including rural and urban livelihood strategies, ecological sustainability, and efforts in achieving social and economic justice. Research will be conducted collaboratively with international students, providing Southwestern students the opportunity to interact with and learn from people with diverse cultural backgrounds.
This course may be taken 1 time for credit.
Course classification: LDC

**ANTH280 CWE: Anthropology** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
This course offers career exploration and workplace experience within a widely defined number of supervised settings. The course provides professional experience in the field of anthropology.
This course may be taken 12 times for credit.
Course classification: LDC

# ART (ART)

**ART110 Digital Photography I** 3 credits (2 lec, 3 lab hrs/wk)
This course introduces students to digital photography and basic photographic post-production. Students will gain hands-on experience with digital cameras, while simultaneously exploring core photographic principles, including: Composition, focus, exposure, and lighting. Through discussions, critiques, and readings, students will expand their conceptual foundation and hone their ability to evaluate photographs.
This course may be taken 1 time for credit.
Course classification: LDC

**ART115 Basic Design I Intro to Elements of Art and Principles of Design** 4 credits (3 lec, 3 lab hrs/wk)
Addresses two-dimensional, black and white design issues in the context of the contemporary visual world. Explores the elements (line, shape, texture, value, space) and principles (composition, harmony, pattern, rhythm) of visual design.
This course may be taken 1 time for credit.
Course classification: LDC

**ART116 Basic Design II, Color Theory** 4 credits (3 lec, 3 lab hrs/wk)
Addresses color theory, relationship and organization in the context of the contemporary visual world. Explores the elements (line, shape, texture, value, space) and principles (composition, harmony, pattern, rhythm) of visual design.
This course may be taken 1 time for credit.
Course classification: LDC

**ART117 Basic Design III, Intro to 3D Desgn** 4 credits (3 lec, 3 lab hrs/wk)
Addresses three-dimensional design (space, forms, materials and methods) in the context of the contemporary visual world. Explores the elements (line, shape, texture, value, space) and principles (composition, harmony, pattern, rhythm) of visual design.
This course may be taken 1 time for credit.
Course classification: LDC

**ART131 Introduction to Drawing I** 3 credits (2 lec, 3 lab hrs/wk)
Students are introduced to the basic techniques and approaches to drawing with an emphasis on the development of perceptual skills and observational study. Assigned creative projects explore a variety of media, subject matter, and conceptual problems inspired by historical and contemporary artistic practice. Intro to Drawing series 131, 132, 133 may be taken in any sequence.
This course may be taken 1 time for credit.
Course classification: LDC

**ART132 Introduction to Drawing II** 3 credits (2 lec, 3 lab hrs/wk)
Students are introduced to the basic techniques and approaches to drawing the human figure with an emphasis on the development of perceptual skills and observational study. Assigned creative projects explore a variety of media with a focus on proportion, foreshortening, anatomy, and the application of techniques inspired by historical and contemporary artistic practice. Intro to Drawing series 131, 132, 133 may be taken in any sequence.
This course may be taken 1 time for credit.
Course classification: LDC

**ART133 Introduction to Drawing III** 3 credits (2 lec, 3 lab hrs/wk)
Students are introduced to the basic techniques and approaches to drawing with an emphasis on the development of meaningful content and personal expression. Assigned creative projects are inspired by historical and contemporary artistic practice, and explore a variety of media, as well as thematic development and organization of the picture plane. Intro to Drawing series 131, 132, 133 may be taken in any sequence.
This course may be taken 1 time for credit.
Course classification: LDC

**ART180 Internship: Art** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

**ART184 Watercolor Basics** 3 credits
Introduces principles and concepts of watercolor at a beginning level. Explores the study of color, composition, and value control. Special attention given to experimental techniques, history, and use of eggs as a binder.
This course may be taken 1 time for credit.
Course classification: LDC

**ART191 Beginning Sculpture** 3 credits (2 lec, 4 lab hrs/wk)
Demonstrates techniques, processes and materials in sculpture. Explores a variety of media and sculptural concepts, emphasizing the discipline and process of handling the tools and additive materials of clay and wire, subtractive qualities of stone and clay.
This course may be taken 1 time for credit.
Course classification: LDC

**ART192 Beginning Sculpture** 3 credits (2 lec, 4 lab hrs/wk)
Further develop aesthetic awareness and preceptions about three dimensional form. Demonstrates techniques, processes, and materials in sculpture. Concentration on figure study of human form.
This course may be taken 1 time for credit.
Course classification: LDC

**ART204 History of Western Art: Introduction to Art History** 3 credits (3 lec hrs/wk)
The History of Western Art is a survey of the traditions, movements, and developments in art and architecture of the western world. Introduces the study of art history and the elements of art and then surveys the history of Western Art from prehistory through Early Christian Art.
This course may be taken 1 time for credit.
Course classification: LDC

**ART205 History of Western Art: Introduction to Art History** 3 credits (3 lec hrs/wk)
The History of Western Art is a survey of the traditions, movements, and developments in art and architecture of the western world. Emphasizes a survey of the history of art form from the Early Middle Ages through the Baroque.
This course may be taken 1 time for credit.
Course classification: LDC

**ART206 History of Western Art: Introduction to Art History** 3 credits (3 lec hrs/wk)
The History of Western Art is a survey of the traditions, movements, and developments in art and architecture of the western world. Surveys Western Art from Neoclassicism to the Present.
This course may be taken 1 time for credit.
Course classification: LDC

**ART210 Digital Photography II** 3 credits (2 lec, 3 lab hrs/wk)
This course covers digital raw capture and post-production techniques. Students will gain hands-on experience with interchangeable lens digital cameras and explore editing raw files in Adobe Lightroom Classic. The course will deepen students' understanding of the history of photography and popular genres of contemporary photographic practice.
This course may be taken 1 time for credit.
Course classification: LDC

**ART220 Video & Audio Editing** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( ART110 )
Introduces filmmaking and video-craft using Adobe Premiere Pro and Adobe Audition with a focus on postproduction practices in editing such as the effective application of corrective and creative effects for both video and audio. Exploration in practices of purpose, planning, storytelling, critical thinking, technical skills, and implementation. Introduction to the history and theory of video editing evaluating at how meaning is created and emotional responses are guided through the subtle art of timing, rhythm and pace in the cutting of time-based media. Guidance in making unique connections between visual and audio media for utilization in education, art practice, marketing, and storytelling.
This course may be taken 1 time for credit.
Course classification: LDC

**ART231 Drawing I** 3 credits (2 lec, 3 lab hrs/wk)
Explores principles of drawing and visual problem-solving using various media and subjects.
This course may be taken 1 time for credit.
Course classification: LDC

**ART232 Drawing II** 3 credits (2 lec, 3 lab hrs/wk)
Explores principles of drawing and visual problem solving using various media and subjects. Emphasis on composition and understanding of visual form including hand-eye-mind coordination. Departing somewhat from the still life, landscape, linear perspective, and non-objective subjects may be covered. A variety of dry and wet drawing media, including colored pencil, may be covered.
This course may be taken 1 time for credit.
Course classification: LDC

**ART237 Life Drawing** 3 credits (2 lec, 3 lab hrs/wk)
A studio experience with supporting slides, lectures, and occasional films. Covers studying and drawing the human form, using professional models. Presents the structure, form and proportions of human figure, applying various drawing techniques and concepts. Emphasizes personal artistic growth with attention to composition.
This course may be taken 1 time for credit.
Course classification: LDC

**ART244 Bronze Casting** 3 credits (2 lec, 4 lab hrs/wk)
All aspects of the bronze casting process will be covered including mold making, wax pattern production, investment/ceramic shell processes, bronze casting, welding and metal chasing, bronze patina, and final installation of the finished sculpture.
This course may be taken 3 times for credit.
Course classification: LDC

**ART253 Ceramics I** 3 credits (2 lec, 4 lab hrs/wk)
Presents all aspects of introductory clay processes: Development of ideas, care and preparation of clay, skills and understanding related to clay work on and off the potter's wheel, glazes and firing procedures.
This course may be taken 3 times for credit.
Course classification: LDC

**ART256 Ceramics II** 3 credits (2 lec, 4 lab hrs/wk)
Prerequisite(s): ( ART253 )
Allows students to further explore all aspects of clay processes: Development of ideas, care and preparation of clay, skills and understanding related to clay work on and off the potter's wheel, glazes and firing procedures.
This course may be taken 3 times for credit.
Course classification: LDC

**ART280 Field Experience** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience in art education graphics or art related areas under the joint supervision of an advisor and the sponsoring professional. (Museum & gallery experience, retail art supply experience, professional studio artist, and art educator apprenticeship.)
This course may be taken 33 times for credit.
Course classification: LDC

**ART281 Painting I Beginning** 3 credits (6 lec lab hrs/wk)
Offers visual observation and composition of selected subjects using oil or acrylic media. Second and third quarter continues technique and color control on a two-dimensional surface.
This course may be taken 1 time for credit.
Course classification: LDC

**ART282 Painting II Beginning** 3 credits (2 lec, 4 lab hrs/wk)
Offers visual observation and composition of selected subjects using oil or acrylic media. Second and third quarter continues technique and color control on a two-dimensional surface.
This course may be taken 1 time for credit.
Course classification: LDC

**ART283 Painting III Beginning** 3 credits (2 lec, 3 lab hrs/wk)
Offers visual observation and composition of selected subjects using oil or acrylic media. Second and third quarter continues technique and color control on a two-dimensional surface.
This course may be taken 1 time for credit.
Course classification: LDC

**ART284 Painting I Intermediate** 3 credits (2 lec, 3 lab hrs/wk)
Offers visual observation and composition of selected subjects using oil or acrylic media. Emphasis will be given to individual needs and interests in painting.
This course may be taken 1 time for credit.
Course classification: LDC

**ART285 Painting II Intermediate** 3 credits (2 lec, 3 lab hrs/wk)
Offers visual observation and composition of selected subjects using oil or acrylic media. Emphasis will be given to individual needs and interests in painting.
This course may be taken 1 time for credit.
Course classification: LDC

**ART286 Painting III Intermediate** 3 credits (2 lec, 3 lab hrs/wk)
Offers visual observation and composition of selected subjects using oil or acrylic media. Emphasis will be given to individual needs and interests in painting.
This course may be taken 1 time for credit.
Course classification: LDC

**ART291 Sculpture** 3 credits (2 lec, 4 lab hrs/wk)
Prerequisite(s): ( ART191 ) or ( ART192 ) or ( ART193 )
Explores three-dimensional shapes and forms in greater depth and intensity from previous year. Students assess personal strengths and weaknesses to establish a plan for building skills. They become mentors to new sculpture students thereby strengthening the critical eye.
This course may be taken 1 time for credit.
Course classification: LDC

**ART292 Sculpture** 3 credits (2 lec, 4 lab hrs/wk)
Explores three-dimensional shapes and forms in greater depth and intensity from previous year. Intermediate human figure study.
This course may be taken 1 time for credit.
Course classification: LDC

**ART293 Sculpture** 3 credits (2 lec, 4 lab hrs/wk)
Explores three-dimensional shapes and forms. Students achieve full independence in studio processes. They have a greater role in communicating their design understanding beyond the studio to improve the visual aesthetics of a larger community.
This course may be taken 1 time for credit.
Course classification: LDC

# BIOLOGY (BI)

**BI101 General Biology** 4 credits (3 lec, 3 lab hrs/wk)
Intended for non-science majors. Examines the organization of cells, including their composition and structure, energy-trapping and use, information storage, and cell division.
This course may be taken 1 time for credit.
Course classification: LDC

**BI102 General Biology** 4 credits (3 lec, 3 lab hrs/wk)
Intended for non-science majors. Addresses the organization and function of multicellular organisms, with an emphasis on humans.
This course may be taken 1 time for credit.
Course classification: LDC

**BI103 General Biology** 4 credits (3 lec, 3 lab hrs/wk)
A three (3) term sequence course, satisfies requirement for non-biological science pre-professional students. Surveys biological principles applied to plants and animals, from cellular level to ecological level of organization. General Biology attemps to convey to the student an appreciation of the most important aspects of life on earth.
This course may be taken 1 time for credit.
Course classification: LDC

**BI111 Marine Habitats of the Oregon Coast** 1 credit (2 lec lab hrs/wk)
Prerequisite(s): ( MTH65 ) or ( MTH98 )
This course provides an introduction to marine habitats, the Oregon Institute of Marine Biology (OIMB), and the field of study for marine biology majors or other interested students. Low tide field trips are conducted to study animals and plants in their habitats. An introduction to courses and research conducted at OIMB is provided.
This course may be taken 1 time for credit.
Course classification: LDC

**BI140 Practical Ecology** 3 credits (3 lec hrs/wk)
An introduction to the basic concepts of ecology, using examples from the ecology of the local area, with a consideration of impacts made by different types of land use.
This course may be taken 1 time for credit.
Course classification: LDC

**BI142 Habitats: Marine Biology** 4 credits (3 lec, 3 lab hrs/wk)
Prerequisite(s): ( MTH65 ) or ( MTH98 )
Examines the marine environment and the ecology, physiology, and morphology of marine plants and animals emphasizing Oregon. Laboratory focuses on environmental testing and identification.
This course may be taken 1 time for credit.
Course classification: LDC

**BI149 Introduction to Human Genetics** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( MTH65 ) or ( MTH98 )
Covers the basic concepts of genetics as they have developed since the nineteenth century. Discusses current techniques that are being developed and applied to problems of inheritance patterns, genetic disorders, and genetic therapy. Behavior and population genetics are included.
This course may be taken 1 time for credit.
Course classification: LDC

**BI180 Internship: Biology** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

**BI214 General Biology IV: Mechanisms** 4 credits (3 lec, 3 lab hrs/wk)
Topics in Biochemistry: Amino Acid Chemistry, Protein Structure and Function, Hemoglobin, DNA Structure and Mutations; Topics in Genetics: Metabolic Pathways, Mutant Analysis, Complementation Tests, Regulation of Transcription, and the Lac Operon. Both lectures and laboratories. Sequence with BI201, BI202, and BI203.
This course may be taken 1 time for credit.
Course classification: LDC

**BI221Z Principles of Biology: Cells** 5 credits (3 lec, 2 lab hrs/wk)
Explores fundamental biological concepts and theories about the cellular and molecular basis of life including cell structure and function, metabolism, genetic basis of inheritance and how information flows from DNA to proteins, with a focus on the iterative process of science. Intended for science majors.
This course may be taken 1 time for credit.
Course classification: LDC

**BI222Z Principles of Biology: Organisms** 5 credits (3 lec, 2 lec lab hrs/wk)
Explores fundamental biological concepts and theories about the structure and function of diverse organisms (including plants and animals), evolution and development, transformation of energy and matter, and body systems at a multicellular organismal level. Intended for science majors.
This course may be taken 1 time for credit.
Course classification: LDC

**BI223Z Principles of Biology: Ecolo/Evolut** 5 credits
Explores the unity and diversity of life through evolutionary mechanisms and relationships, and adaptation to the environment. Examines population, community, and ecosystem ecology. Intended for science majors.
This course may be taken 1 time for credit.
Course classification: LDC

**BI231 Human Anatomy and Physiology I** 4 credits (3 lec, 3 lab hrs/wk)
Prerequisite(s): ( BI101 ) or ( BI221Z ) or ( CHEM110 ) or ( CHEM223Z )
The curriculum of the first term of Human Anatomy and Physiology will include the study of body organization, tissues, and a study of the integumentary, skeletal, and muscular systems. The course will include the study of molecules, cells, tissues, organs and organ systems in humans. Some pathological conditions will be covered.
This course may be taken 1 time for credit.
Course classification: LDC

**BI232 Human Anatomy and Physiology II** 4 credits (3 lec, 3 lab hrs/wk)
Prerequisite(s): ( BI231 )
The curriculum of the second term of Human Anatomy and Physiology will include the study of: The nervous system including nervous tissue, the spinal chord and spinal nerves, the brain and cranial nerves, sensory and motor and integrative nervous systems, the special senses and the autonomic nervous system; the endocrine system with emphasis on hormone activity, the major hormones of each gland, hormones involved in growth and the stress response; the cardiovascular system including blood, the heart, blood vessels and hemodynamics.
This course may be taken 1 time for credit.
Course classification: LDC

**BI233 Human Anatomy and Physiology III** 4 credits (3 lec, 3 lab hrs/wk)
Prerequisite(s): ( BI232 )
The curriculum of the third term of Human Anatomy and Physiology will include the study structure and function of the: Respiratory system; digestive system; metabolism; urinary system; fluid, electrolyte, and acid base balance; the reproductive system; and human development and inheritance.
This course may be taken 1 time for credit.
Course classification: LDC

**BI234 Microbiology** 4 credits (3 lec, 3 lab hrs/wk)
Prerequisite(s): ( BI101 ) or ( BI221Z ) or ( CHEM110 ) or ( CHEM223Z )
Microbiology principles are applied to health-related fields. Includes characteristics, physiology, and growth requirements of microorganisms, sterilization principles, infection, and immunity. Pathogenic microbes, infections and host resistance will be a consideration.
This course may be taken 1 time for credit.
Course classification: LDC

**BI280 CWE: Biology** 1-6 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical worksite exposure to applied science, which provides students an opportunity to explore potential career paths in science while gaining practical experience in applying classroom science theory.
This course may be taken 12 times for credit.
Course classification: LDC

# BUSINESS ADMINISTRATION (BA)

**BA101Z Introduction To Business** 4 credits (4 lec hrs/wk)
Presents an integrated view of both established and entrepreneurial businesses by studying their common characteristics and processes in a global context. Introduces theory and develops basic skills in the areas of accounting, finance, management, and marketing, with an emphasis on social responsibility and ethical practices. Explores how businesses can create value for themselves and society by addressing environmental and social challenges.
This course may be taken 1 time for credit.
Course classification: LDC

**BA120 Leadership Development** 3 credits (3 lec hrs/wk)
This course introduces leadership and group dynamics theory and skills to identify and develop the qualities of effective leadership that are essential for career, organizational, and personal success. The course will integrate leadership models and theories with current leadership practices within a multicultural context.
This course may be taken 1 time for credit.
Course classification: LDC

**BA145 Business Field Trip** 2 credits (5 lec hrs/wk)
The actitivities in this course are designed to inspire future business leaders with ideas of some of the exciting academic and career choices they can make. Students will visit non-profits, multi-national firms, and the offices of state legislators in Salem.
This course may be taken 1 time for credit.
Course classification: CTE

**BA150 Introduction to Entrepreneurship** 3 credits (3 lec hrs/wk)
Entrepreneurship is an exciting opportunity for students to learn about potential business ownership, becoming the creator of jobs in the community. The Introduction to Entrepreneurship course will focus on the leadership skills and entrepreneurial traits needed to be successful.
This course may be taken 1 time for credit.
Course classification: CTE

**BA156 Essentials of Economics** 3 credits (3 lec hrs/wk)
This course provides an introduction to the fundamental principles of microeconomics and macroeconomics. It covers topics such as supply and demand, market structures, national income, monetary and fiscal policy, and international trade. The course also explores contemporary economic issues and their impact on individuals and society.
This course may be taken 1 time for credit.
Course classification: LDC

**BA169Z Data Analysis Using Microsoft Excel** 4 credits (4 lec hrs/wk)
Covers Microsoft Excel software skills necessary for evidence-based problem-solving, including workbook editing, formula creation, charting, and pivot tables. Emphasizes hands-on learning using Excel functions to perform data analysis to enhance decision-making.
This course may be taken 1 time for credit.
Course classification: CTE

**BA177 Payroll Records and Accounting** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( BA211Z )
Become familiar with the basic knowledge and skills of payroll accounting. Provides practice in all payroll operations such as calculation of gross pay and of applicable withholding and deductions, journalizing and posting payroll transactions, and reporting various federal and state obligations.
This course may be taken 1 time for credit.
Course classification: LDC

**BA180 Internship: Business Administration** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

**BA203 Intro. to International Business** 3 credits (3 lec hrs/wk)
Explores the broad field of international trade. It forms a foundation for future study and specialization in the international business field. Students will gain an understanding of the institutions, environments, forces, and problems that are involved when businesses operate in foreign economies.
This course may be taken 1 time for credit.
Course classification: LDC

**BA205 Solving Communication Problems With Technology** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( WR115 ) or ( WR121Z )
Focuses on using current technology to create, revise, and design business documents: letters, memos, e-mail, reports, minutes, simple instructions, and resumes. Students will use library and Internet resources to collect information. Includes oral presentations using technology presentation tools.
This course may be taken 1 time for credit.
Course classification: LDC

**BA206 Management Fundamentals** 4 credits (4 lec hrs/wk)
Introduces business management theory, including the basic functions of planning, organizing, directing, leading, and controlling as well as factors contributing to change in current management approaches. The course focuses on the four key responsibilities of management: planning, organizing, leading and control Recommended: BA 101, Introduction to Business.
This course may be taken 1 time for credit.
Course classification: LDC

**BA211Z Principles of Financial Accounting** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( MTH65 ) or ( MTH82 )
Imparts an understanding of the purpose of accounting, common financial statement items, and the principles of internal controls. Focuses on recording the impact of economic events on account balances using U.S. Generally Accepted Accounting Principles, and the creation and analysis of financial statements to aid in external decision making.
This course may be taken 1 time for credit.
Course classification: LDC

**BA212 Principles of Accounting II** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( BA211Z )
This is the second term of the accounting principles sequence. Introduces financial accounting theory, including accounting systems, management control, depreciation, merchandise inventory, evaluation, partnership and corporate accounting, capital stock, investments, statement of cash flow and financial statement analysis.The course continues emphasis on the the theoretical foundations of accounting and analytical skills needed by business and accounting students.
This course may be taken 1 time for credit.
Course classification: LDC

**BA213Z Principles of Managerial Accounting** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( BA101Z ) or ( BA211Z )
Builds an understanding of the role of managerial accounting in a business, focusing on the development and use of information to evaluate production costs and operational performance in support of short- and long-term organizational decision-making.
This course may be taken 1 time for credit.
Course classification: LDC

**BA215 Cost Accounting** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( BA212 )
This course develops techniques for determing product costs under job order, process and standard costing, and introduces cost analysis for decision making.
This course may be taken 1 time for credit.
Course classification: LDC

**BA217 Accounting Process** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( BA211Z )
Introduces fully integrated accounting software. Additionally, the student will review and apply basic accounting systems in practical applications. These will range from working with journals and ledgers, to the application of accounting systems on a microcomputer and analyzing financial statements.
This course may be taken 1 time for credit.
Course classification: LDC

**BA220 Tax Accounting: Personal Income Tax** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( BA211Z )
A beginning course in federal income tax preparation. Designed to introduce students to the Federal tax system for individuals and businesses. Students will learn how to complete basic schedules and forms, including the W-2, W-3, and W-4 forms.
This course may be taken 1 time for credit.
Course classification: LDC

**BA222 Financial Management** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( BA211Z and MTH65 )
Covers basic financial concepts and practices and includes analysis of company resources, types and sources of financing, forecasting and planning methods, and the roles of capital markets. It includes key financial topics such as analysis of financial statements, cash flow, and break-even calculations, working capital management, time value of money, and capital budgeting.
This course may be taken 1 time for credit.
Course classification: LDC

**BA223 Principles of Marketing** 4 credits (4 lec hrs/wk)
Develops skills in understanding and developing strategies in the marketing environment. Covers principles and techniques of market research, consumer behavior, product development, pricing, distribution and promotion. Establishes basis for creating a marketing plan.
This course may be taken 1 time for credit.
Course classification: LDC

**BA224 Human Resource Management** 4 credits (4 lec hrs/wk)
The student will be introduced to personnel functions as they relate to the management of the human resources of an organization. Areas of concentration will include employee selection, training, and compensation.
This course may be taken 1 time for credit.
Course classification: LDC

**BA226Z Introduction to Business Law** 4 credits (4 lec hrs/wk)
Provides a comprehensive overview of U.S. business law, including the legal system, contracts, torts, intellectual property, agency, employment, and business organization forms. Emphasizes practical legal knowledge and explores how laws impact business operations, with a focus on risk management, contract disputes, business formation, and compliance with government regulation. Introduces legal challenges in business through real cases and legal terminology.
This course may be taken 1 time for credit.
Course classification: LDC

**BA233 E-Marketing** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( BA223 )
Learn the practical applications of diverse online marketing components such as searches and optimization, tracking, reporting, and social media. Online marketing strategies will be introduced to guide creation, promotion, and tracking of an online presence for a person, brand, or company.
This course may be taken 1 time for credit.
Course classification: LDC

**BA238 Sales** 3 credits (3 lec hrs/wk)
This course involves the role of sales as an integral part of the total marketing function. The application of selling to the behavioral science will be included with special emphasis on sales psychology, sales techniques and the fundamental principles of sales communication.
This course may be taken 1 time for credit.
Course classification: LDC

**BA239 Advertising** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( BA223 )
A detailed examination of the purpose, preparation, placement, and analysis of the various types of advertisements and relative merits of media such as television, internet, radio and the newspaper. Involves practice in the planning and analysis of complete advertising campaigns and their coordination with other marketing strategies.
This course may be taken 1 time for credit.
Course classification: LDC

**BA240 Fund Accounting** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( BA211Z )
This course presents accounting for governmental and non-profit organizations. It includes budgetary and expenditure control, as well as considerations, reporting and operations of general, special revenue, and capital projects.
This course may be taken 1 time for credit.
Course classification: LDC

**BA249 Retailing** 3 credits (3 lec hrs/wk)
A study of retail strategy, structure, and management. The course stresses the role of the supervisor in the daily operation of retail work.
This course may be taken 1 time for credit.
Course classification: LDC

**BA250 Applied Entrepreneurship** 3 credits (3 lec hrs/wk)
What is entrepreneurship? Who are entrepreneurs? How does one become an entrepreneur? This course examines the key questions encountered by individuals considering the path of business ownership. We focus on examining the history and role of entrepreneurs in the economy, characteristics of entrepreneurs, career paths of entrepreneurship and one's personal potential as an entrepreneur. In addition, we will discuss the basic principles of business entrepreneurship, including planning, organizing, innovation, staffing, and leading, stressing those elements needed for financial achievement and personal reward.
This course may be taken 1 time for credit.
Course classification: LDC

**BA277 Business Ethics** 3 credits (3 lec hrs/wk)
Presents the ethical issues currently facing business. Provides a framework for identifying, analyzing, and resolving ethical dilemmas encountered in daily life.
This course may be taken 1 time for credit.
Course classification: LDC

**BA280 CWE: Business Admin** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore a variety of workplaces in which to apply that knowledge.
This course may be taken 12 times for credit.
Course classification: LDC

**BA285 Human Relations in Organizations** 3 credits (3 lec hrs/wk)
This course explores interactions in organizations by examining human perceptions, communications, small group dynamics and leadership. Includes the dynamics of change, cultural diversity, substance abuse, work stress, ethics and social responsibility, career development, and the challenges of globalization.
This course may be taken 1 time for credit.
Course classification: LDC

**BA292 Entrepreneurship Capstone** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( BA101Z and BA150 and BA205 and BA206 and BA222 and BA239 )
Students develop an ePortfolio highlighting their program completion achievements. Throughout this course the student will be guided towards integrating their learning using a variety of activities such as reflecting, documenting, interviewing, volunteering, or taking part in other academic or community based events.
This course may be taken 1 time for credit.
Course classification: CTE

# CHEMISTRY (CHEM)

**CHEM110 Foundations of General, Organic, and Biochemistry** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( MTH65 ) or ( MTH98 )
This is a survey of chemistry from atomic structure through biochemistry. CHEM 110 is primarily for students in pre-nursing, some allied health fields, and students who need a brief introduction to chemistry that includes organic and biochemistry. The course does not have an associated lab.
This course may be taken 1 time for credit.
Course classification: LDC

**CHEM180 Internship: Chemistry** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

**CHEM221Z General Chemistry I** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( MTH95 )
Corequisite(s): ( CHEM227Z )
Explores and applies principles and applications of chemistry. Emphasis on measurement, components of matter, atomic and molecular structure, quantitative relationships including foundational stoichiometry, and major classes of chemical reactions. CH/CHE/CHEM 221Z is a lecture course; CH/CHE/CHEM 227Z is the laboratory component.
This course may be taken 1 time for credit.
Course classification: LDC

**CHEM222Z General Chemistry II** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( CHEM221Z )
Corequisite(s): ( CHEM228Z )
Explores and applies principles presented in CH/CHE/CHEM 221Z to the study of the solid, liquid, and gaseous states of matter. Principles of stoichiometry, thermochemistry, kinetics, and foundational equilibrium are explored and applied to the study of aqueous and gas-phase chemical reactions. CH/CHE/CHEM 222Z is a lecture course; CH/CHE/CHEM 228Z is the laboratory component.
This course may be taken 1 time for credit.
Course classification: LDC

**CHEM223Z General Chemistry III** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( CHEM222Z )
Corequisite(s): ( CHEM229Z )
Builds upon the principles presented in CH/CHE/CHEM 222Z, explores thermodynamics and chemical equilibrium, and applies them to the study of aqueous acid-base reactions, solubility, and electrochemistry. CH/CHE/CHEM 223Z is a lecture course; CH/CHE/CHEM 229Z is the laboratory component.
This course may be taken 1 time for credit.
Course classification: LDC

**CHEM227Z General Chemistry I Laboratory** 1 credit (3 lab hrs/wk)
Corequisite(s): ( CHEM221Z )
Experiments correspond to the topics covered in CH/CHE/CHEM 221Z including the fundamentals of chemical measurements, quantitative relationships in chemical analysis, and understanding atomic and molecular structure. CH/CHE/CHEM 227Z is the laboratory component; CH/CHE/CHEM 221Z is the lecture course.
This course may be taken 1 time for credit.
Course classification: LDC

**CHEM228Z General Chemistry II Laboratory** 1 credit (3 lab hrs/wk)
Corequisite(s): ( CHEM222Z )
Experiments correspond to the topics covered in CH/CHE/CHEM 222Z including the fundamentals of intermolecular interactions, stoichiometric relationships, chemical equilibria and their application to the synthesis, identification, and analysis of chemical compounds. CH/CHE/CHEM 228Z is the laboratory component; CH/CHE/CHEM 222Z is the lecture course.
This course may be taken 1 time for credit.
Course classification: LDC

**CHEM229Z General Chemistry III Laboratory** 1 credit (3 lab hrs/wk)
Corequisite(s): ( CHEM223Z )
Experiments correspond to the topics covered in CH/CHE/CHEM 223Z including the principles of chemical equilibria and their application to chemical analysis using volumetric and electrochemical methods. CH/CHE/CHEM 229Z is the laboratory component; CH/CHE/CHEM 223Z is the lecture course.
This course may be taken 1 time for credit.
Course classification: LDC

**CHEM245 Organic Chemistry I** 4 credits (3 lec, 3 lab hrs/wk)
Prerequisite(s): ( CHEM223Z )
The first course of a three-term sequence in organic chemistry for students interested in the sciences, chemical engineering, and professional health programs. Topics include the structure of organic molecules, organic functional groups, stereochemistry, reaction mechanisms, and spectroscopy. Includes laboratory component. May be eligible for upper division credit at a four-year institution.
This course may be taken 1 time for credit.
Course classification: LDC

**CHEM246 Organic Chemistry II** 4 credits (3 lec, 3 lab hrs/wk)
Prerequisite(s): ( CHEM245 )
The second course of a three-term sequence in organic chemistry for students interested in the sciences, chemical engineering, and professional health programs. Topics include nucleophilic substitution at the carbonyl group and saturated carbons, organometallic compounds, elimination and addition reactions, and electrophilic and nucleophilic aromatic substitution. Includes a laboratory component. May be eligible for upper division credit at a four-year institution.
This course may be taken 1 time for credit.
Course classification: LDC

**CHEM247 Organic Chemistry III** 4 credits (3 lec, 3 lab hrs/wk)
Prerequisite(s): ( CHEM246 )
The third course of a three-term sequence in organic chemistry for students interested in the sciences, chemical engineering, and professional health programs. Topics include the chemistry of enols and enolate ions, radical chemistry, selectivity in chemical synthesis, retrosynthetic analysis, symmetric synthesis, and biological macromolecules. Includes a laboratory component. May be eligible for upper division credit at a four-year institution.
This course may be taken 1 time for credit.
Course classification: LDC

**CHEM280 CWE: Chemistry** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical worksite exposure to applied science, which provides students an opportunity to explore potential career paths in science while gaining practical experience in applying classroom science theory.
This course may be taken 12 times for credit.
Course classification: LDC

# COMMUNICATION (COMM)

**COMM100Z Introduction to Communication** 4 credits (4 lec hrs/wk)
COMM 100Z is a survey course offering an overview of the communication discipline t hat emphasizes the development of best communication practices in different contexts.
This course may be taken 1 time for credit.
Course classification: LDC

**COMM111Z Public Speaking** 4 credits (4 lec hrs/wk)
COMM 111Z emphasizes developing communication skills by examining and demonstrating how self-awareness, audience, content, and occasion influence the creation and delivery of speeches and presentations
This course may be taken 1 time for credit.
Course classification: LDC

**COMM112 Persuasive Speech** 4 credits (4 lec hrs/wk)
Examine the psychology of persuasion, as well as methods speakers use to persuade an audience. Use evidence, reasoning skills, emotional appeal, credibility, critical thinking, organizational patterns, outlining techniques and audience analysis. Prepare and present original persuasive speeches.
This course may be taken 1 time for credit.
Course classification: LDC

**COMM218Z Interpersonal Communication** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( WR90R )
COMM 218Z increases the knowledge and use of competent communication skills to better understand oneself, others, and the role of communication in interpersonal relationships.
This course may be taken 1 time for credit.
Course classification: LDC

**COMM219 Small Group Discussion** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( WR115 )
Focus on skill building and theory in decision making, problem solving, presentation planning, and knowledge of group process. Examine effective small group techniques in a variety of settings. Plan and present a group discussion and group presentation.
This course may be taken 1 time for credit.
Course classification: LDC

**COMM220 Gender And Communication** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( WR115 )
Increase understanding and awareness of differences in gendered communication styles. Explore how culture, media, attitudes, and gender roles influence and impact communication.
This course may be taken 1 time for credit.
Course classification: LDC

# COMPUTER INFORMATION SYSTEMS (CIS)

**CIS120 Concepts of Computing** 4 credits (4 lec hrs/wk)
This course introduces students to topics in critical areas of computer technology, information security, and productivity applications as they relate to the workplace. Subjects include hardware, networking, cyber security and privacy, social media, ethics, and cloud computing. Productivity applications are introduced through hands-on activities and projects using the Microsoft Office suite of applications including Word (text document), Excel (spreadsheets), Access (database), and PowerPoint (presentation) including examples of their use in everyday businesses.
This course may be taken 1 time for credit.
Course classification: LDC

**CIS125DB Database Applications** 3 credits (2 lec, 2 lec lab hrs/wk)
Prerequisite(s): ( CIS120 ) or ( CS160 )
Databases are at the heart of commercial application development and their use extends to other environments where large amounts of data must be stored for efficient update, retrieval, and analysis. The purpose of this course is to provide a comprehensive introduction to the use of data management systems for applications. Topics covered include data models, query languages, transactions, data processing, and database as a service.
This course may be taken 1 time for credit.
Course classification: CTE

**CIS125DW Computer Applications: Dreamweaver** 3 credits (3 lec hrs/wk)
This course offers students the opportunity to learn contemporary industry software, beginning and intermediate level techniques, and related design principles. The integrated curriculum will guide students through design principles and project management techniques as they are introduced to Adobe Dreamweaver.
This course may be taken 1 time for credit.
Course classification: CTE

**CIS125IL Computer Applications: Illustrator** 3 credits (3 lec hrs/wk)
This course offers students the opportunity to learn contemporary industry software, beginning and intermediate level techniques, and related design principles. The integrated curriculum will guide students through design principles and project management techniques as they are introduced to Adobe Illustrator.
This course may be taken 1 time for credit.
Course classification: CTE

**CIS125MA Computer Applications: Maya** 3 credits (3 lec hrs/wk)
This course offers students the opportunity to learn contemporary industry software, beginning and intermediate level techniques, and related design principles. The integrated curriculum will guide students through design principles and project management techniques as they are introduced to Autodesk Maya.
This course may be taken 1 time for credit.
Course classification: CTE

**CIS125P Presentation Applications** 1 credit (1 lec hrs/wk)
This course introduces intermediate to advanced features of presentation software for the efficient development of effective presentations. Using word processing skills and presentation theories, students will enhance their skills to develop professional looking and effective presentations complete with outline, speaker notes and audience handouts.
This course may be taken 1 time for credit.
Course classification: CTE

**CIS125PH Computer Applications: Photoshop** 3 credits (3 lec hrs/wk)
This course offers students the opportunity to learn contemporary industry software, beginning and intermediate level techniques, and related design principles. The integrated curriculum will guide students through design principles and project management techniques as they are introduced to Adobe Photoshop.
This course may be taken 1 time for credit.
Course classification: CTE

**CIS125W Word Processing Applications Microsoft** 3 credits (2 lec, 2 lec lab hrs/wk)
Computers are used to create the majority of our documents. It is impossible to avoid word-processing software in many areas of the business world. Managers, lawyers, clerks, reporters, and editors rely on this software to do their jobs. Whether you are an executive secretary or a website designer, you will need to know the ins and outs of electronic word processing. Microsoft Word is filled with features and tools designed to help you move smoothly through the task of creating professional-looking documents making your work easy.
This course may be taken 1 time for credit.
Course classification: CTE

**CIS140U Intro to Operating Systems: Unix** 4 credits (4 lec hrs/wk)
This course introduces the student to Unix/Linux operating systems and aides in preparing students for an industry-based certification such as Comp TIA's Linux+ exam. The course includes installation and administration of a linux operating system as well as management, troubleshooting, and optimizing techniques. Students will learn the fundamental Unix/Linux command set, file security, text editors, and scripting.
This course may be taken 1 time for credit.
Course classification: CTE

**CIS145 Hardware Installation Support** 4 credits (4 lec hrs/wk)
The course will cover computer hardware, associated peripherals, configuration, optimization, and repair. Customization and personalization of PC components are encouraged. Students will develop critical thinking and troubleshooting skills through an emphasis on hands-on experience in installing, maintaining, and troubleshooting computer hardware. Topics include mobile devices and virtualization.
This course may be taken 1 time for credit.
Course classification: CTE

**CIS151 Network Essentials** 4 credits (4 lec hrs/wk)
This course serves as an introduction to networking and Cisco networking technologies. Instruction includes, but is not limited to, networking, network terminology and protocols, network standards, local-area networks (LANs), wide-area networks (WANs), the Open System Interconnection (OSI) and TCP/IP models, cabling, cabling tools, routers, router programming, Ethernet, Internet Protocol (IP) addressing, and network standards. This is the first of a two-course sequence that prepares students for the CCENT (Cisco Certified Networking Technician) certification.
This course may be taken 1 time for credit.
Course classification: CTE

**CIS152 Network Routing & Switching Config** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( CIS151 )
This is the second of a two-course sequence that prepares students for the CCENT (Cisco Certified Networking Technician) certification. This course covers dynamic and static routing, VLAN management, trunking and inter-VLAN routing, access control lists (ACLs), Dynamic Host Configuration Protocol (DCHP), and Network Address Translation (NAT) in IPv4 and IPv6 environments developed by the Cisco Networking Academy.
This course may be taken 1 time for credit.
Course classification: CTE

**CIS153 Enterprise Networking/Automation** 4 credits
Large enterprises depend heavily on the smooth operation of their network infrastructures. This course describes the architectures and considerations related to designing, securing, operating, and troubleshooting enterprise networks. It covers wide area network (WAN) technologies and quality of service (QoS) mechanisms used for secure remote access along with the introduction of software-defined networking, virtualization, and automation concepts that support the digitalization of networks. Emphasis is placed on the use of critical thinking skills and problem solving techniques to resolve networking problems.
This course may be taken 1 time for credit.
Course classification: CTE

**CIS180 Internship: CIS** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options
This course may be taken 12 times for credit.
Course classification: LDC

**CIS185 Introduction To Cyber Security** 3 credits (2 lec, 3 lab hrs/wk)
Today's interconnected world makes everyone more susceptible to cyber-attacks. Whether you're attracted to the relativity new world of cybersecurity as a professional, or just interested in protecting yourself online and in social media, this introductory course is the answer. It explores cyber trends, threats—along with the broader topic of cybersecurity in a way that will matter to YOU. Learn how to protect your personal privacy online while gaining additional insight on the challenges companies, and governmental and educational institutions face today.
This course may be taken 1 time for credit.
Course classification: CTE

**CIS225 End User Support** 4 credits (3 lec, 3 lab hrs/wk)
Effective end-user support is a key element in a successful business. Understanding needs, prioritizing demands, analyzing efficiency, managing expectations and clear communication are all part of the process. This course introduces the skills and abilities needed by IT professionals who support customers, clients, co-workers, and other categories of end users.
This course may be taken 1 time for credit.
Course classification: CTE

**CIS279 Network Server Administration** 4 credits (3 lec, 3 lab hrs/wk)
Students are introducted to the installation, storage, and virtualization functionalities available in Windows Server. Course covers content for the Windows Server and Network Infrastructure certification exams by focusing on necessary administrative responsibilities, such as implementing server images, planning and configuring storage solutions, and monitoring virtual machine installations.
This course may be taken 1 time for credit.
Course classification: CTE

**CIS280 CWE: Computer Information Systems** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
The CIS internship is designed to complement a student's formal education with practical and meaningful IT-related work experience. It is a unique opportunity for students to clarify employment goals, develop a professional network, and learn about a particular industry. Participating businesses are expecting to receive high-quality work and active participation from the students they sponsor. Experience directly related to a student's CIS major makes the student more marketable when seeking for full-time positions after graduating.
This course may be taken 12 times for credit.
Course classification: LDC

**CIS285 Cyber Security Essentials** 4 credits (4 lec hrs/wk)
A single breach can have huge consequences for a company's ability to function, hurting the bottom line and causing disruption in the daily lives of millions of people. This is why the demand for security professionals continues to grow. Get onboard—and develop an understanding of cybercrime, security principles, technologies, and procedures used to defend networks. Then decide whether you want to pursue an entry-level networking or security role professionally. Recommended for students planning to study for the Cisco Networking and Security Certifications. Introduction to Cybersecurity or equivalent knowledge recommended.
This course may be taken 1 time for credit.
Course classification: CTE

**CIS286 Cyber Security Operations I** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( CIS140U and CIS152 and CIS285 )
Uncovering cybercrime, cyber espionage and other threats to the integrity of networks is an exciting new area that spans all industries. Learn the skills to qualify for exciting and growing opportunities in security operation centers as an analyst or incident responder. And most importantly, help make the world a safer place. This two-part course focuses on how to monitor, detect and respond to cybersecurity threats. Plus, covers cryptography, host-based security analysis, security monitoring, computer forensics, attack methods and incident reporting and handling.
This course may be taken 1 time for credit.
Course classification: CTE

**CIS287 Cyber Security Operations II** 4 credits (3 lec, 3 lab hrs/wk)
Prerequisite(s): ( CIS286 )
Uncovering cybercrime, cyber espionage and other threats to the integrity of networks is an exciting new area that spans all industries. Learn the skills to qualify for exciting and growing opportunities in security operation centers as an analyst or incident responder. And most importantly, help make the world a safer place. This two-part course focuses on how to monitor, detect and respond to cybersecurity threats. Plus, covers cryptography, host-based security analysis, security monitoring, computer forensics, attack methods and incident reporting and handling.
This course may be taken 1 time for credit.
Course classification: CTE

**CIS297 IT Professional Capstone** 4 credits (3 lec, 3 lab hrs/wk)
Prerequisite(s): ( CIS151 and CIS279 )
This is an Associate Level Capstone Course for the Computer Information Systems concentration and should be taken in the student's last term. The course is an in-depth, student-centered experience which requires the integration and application of what they have learned into a single project. The project could relate to the development, implementation, and/or analysis of a practical, hands-on project that has an educational and/or administrative focus. The broad goal of the project is to bring improvement to the student's current professional sphere of influence, by addressing a problem or issue.
This course may be taken 1 time for credit.
Course classification: CTE

**CIS90 Computer Basics** 2 credits (2 lec hrs/wk)
This is a course in digital literacy and is intended for the novice user with little to no previous computer experience. Course content includes Microsoft Windows basic word processing, web browser/internet searches, computer file management, and email. Students will gain exposure to an online learning management system (LMS).
This course may be taken 1 time for credit.
Course classification: DEV

# COMPUTER SCIENCE (CS)

**CS133WS Computer Language I: Web Scripting** 4 credits (3 lec, 2 lec lab hrs/wk)
Prerequisite(s): ( CS160 ) or ( CS195 )
This programming course introduces basic concepts of client-side and server-side scripting languages emphasizing concepts of good website design and construction with the use of scripting languages. Programming focus is on modern event-driven client-server software concepts using HTML/XHTML and JavaScript and PHP. Prior HTML/XHTML knowledge is required for success.
This course may be taken 1 time for credit.
Course classification: LDC

**CS160 Introduction To Computer Science** 4 credits (3 lec, 2 lec lab hrs/wk)
Introduction to Computer Science is an engaging course designed for beginners. It provides an overview of the field of computer science, covering key concepts and algorithms that underpin modern computing technology. Students will explore various topics, including internet search engine algorithms, number systems, binary math, Boolean logic, computer architecture, artificial intelligence, and the future of computing. Practical programming exercises in a beginner-friendly language will be included, offering hands-on experience in developing simple scripts and applications. This course is ideal for anyone interested in understanding the basics of computing and programming, and it serves as a foundational "big picture" course for those continuing in the CS series.
This course may be taken 1 time for credit.
Course classification: LDC

**CS161 Computer Science I** 4 credits (3 lec, 2 lec lab hrs/wk)
Prerequisite(s): ( CS160 ) or ( ENGR112 )
Computer Science I introduces students to the fundamentals of programming using the C++ language. The course covers basic concepts such as variables, control structures, functions, arrays, and elementary data types. Emphasizing problem-solving and algorithmic thinking, it guides students through the development of simple programs and basic software development processes. The course also introduces debugging and testing techniques, laying the groundwork for more advanced programming concepts and practices in subsequent courses.
This course may be taken 1 time for credit.
Course classification: LDC

**CS161A Computer Science 1 (A)** 4 credits (3 lec, 2 lec lab hrs/wk)
CS161A Provides a friendly, hands-on introduction to the fundamentals of programming using Python. Designed with beginners in mind, this course covers essential topics such as variables, flow control, loops, conditionals, and basic data structures—all in a relaxed, supportive environment. You'll gain familiarity with one of the most popular and versatile programming languages, along with a solid foundation in computational thinking and problem-solving techniques that apply to any language. Through practical exercises and engaging projects, CS161A not only prepares you for more advanced computer science courses but also serves as a standalone resource for anyone eager to harness the power of Python.
This course may be taken 1 time for credit.
Course classification: CTE

**CS161B Computer Science I (B)** 4 credits (3 lec, 2 lec lab hrs/wk)
CS 161B - Computer Science I is a fast-paced, intensive course designed for technical majors who already have a basic grounding in programming. Leveraging the power of C++, this course deepens your understanding of essential programming concepts—such as variables, control structures, functions, arrays, and elementary data types—while also unveiling the inner workings of computer systems through a lower-level programming perspective inherent in C++. With a strong emphasis on algorithmic thinking and problem-solving, you will rapidly progress from writing simple programs to mastering effective debugging and testing techniques. This streamlined course not only reinforces core programming skills but also provides critical insight into how computers operate, laying a robust foundation for the advanced challenges ahead
This course may be taken 1 time for credit.
Course classification: CTE

**CS162 Computer Science II** 4 credits (3 lec, 2 lec lab hrs/wk)
Prerequisite(s): ( CS161 )
Computer Science II is an intermediate-level course that continues the exploration of computer science principles begun in CS 161. This course delves deeper into programming using C++, focusing on advanced concepts in object-oriented programming, including dynamic memory management, generics/templates, inheritance, operator overloading, polymorphism, recursion, and exception handling. Students will learn to develop more sophisticated programs, emphasizing code efficiency, modularity, and reusability. The course also introduces important programming tools and techniques, further enhancing students' problem-solving skills and preparing them for more advanced computer science courses.
This course may be taken 1 time for credit.
Course classification: LDC

**CS180 Internship: Computer Science** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

**CS195 Web Development I** 3 credits (2 lec, 2 lec lab hrs/wk)
Prerequisite(s): ( CIS120 ) or ( CS160 )
This class introduces the basic elements of beginning webpage creation using a text editor and HTML/XHTML. This class will focus on web terminology basic HTML/XHTML coding to include hyperlinks anchors tables forms and frames design principles and accessibility issues. Students will explore the availability of tools for webpage creation site management validation and accessibility checks.
This course may be taken 1 time for credit.
Course classification: LDC

**CS205 System Programming & Architecture** 4 credits
Prerequisite(s): ( CS260 )
System Programming and Architecture is designed to bridge the gap between high-level programming and computer hardware. Aligned with the requirements of OSU and PSU, the course is an essential component of the CS Major Transfer Map (MTM). The primary focus is to understand the relationship between C programs, assembly code, and machine architecture. We will explore key aspects of computer architecture, data representation in assembly, and the compilation process. Additionally, this course serves as an introduction to the C programming language, equipping students for junior-level courses that require a proficiency in C. Students will learn to write well-structured C programs, debug effectively, and gain a foundational understanding of how software interacts with hardware.
This course may be taken 1 time for credit.
Course classification: LDC

**CS244 Systems Analysis** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( CIS125DB )
This course will introduce methods and modeling tools used in the systems development process. Emphasis is on structured analysis of computer information systems. Assignments will include the use of project management software CASE tools and graphic tools applied to problems similar to those found in systems in business and industry.
This course may be taken 1 time for credit.
Course classification: LDC

**CS260 Data Structures** 4 credits
Prerequisite(s): ( CS162 )
Data Structures is an advanced course that builds upon the foundational knowledge acquired in earlier computer science courses. It delves into the design, implementation, and analysis of complex data structures and algorithms. Emphasizing practical applications, the course covers binary search trees, hash tables, graphs, and heaps, equipping students with the skills to manage and manipulate large sets of data efficiently. Students will also learn about memory management and algorithm efficiency, vital for developing optimized and scalable software. Through a combination of theoretical learning and hands-on projects, CS 260 prepares students for tackling real-world computational problems with advanced programming techniques.
This course may be taken 1 time for credit.
Course classification: LDC

**CS280 CWE: Computer Science** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore a variety of workplaces in which to apply that knowledge
This course may be taken 12 times for credit.
Course classification: LDC

# CRIMINAL JUSTICE (CJ)

**CJ100 Intro to Criminal Justice** 4 credits (4 lec hrs/wk)
This survey course is designed to provide students with a general introduction to the concepts, phenomenon, and issues of concern in the scientific study of crime, criminal justice agencies and criminal justice practices. It provides the student with an overview of the nature, dynamics, etiological theories of crime and criminal behavior; it also seeks to establish a rudimentary level of understanding of the major issues of concern in criminal justice and the major agencies. Special emphasis is given to current research findings in crime policy and criminal practice.
This course may be taken 1 time for credit.
Course classification: LDC

**CJ101 Intro to Criminology** 4 credits (4 lec hrs/wk)
An interdisciplinary and introductory overview of the study of crime, criminal behavior, and the application of theory to crime prevention and offender treatment. Examines the uses and limitations of empirical research methods to the study of crime. Reviews the principal political, economic, social, cultural, psychological, biological and ideological theories of criminal behavior. Identifies the major categories of crime and discusses the relevance of crime classification. Explores the influence of criminological theory on public policy.
This course may be taken 1 time for credit.
Course classification: LDC

**CJ110 Intro to Policing** 4 credits (4 lec hrs/wk)
The course explores the principles and practices of policing, introduces students to the history, administration, and day-to-day work of the police in the United States. The course presents a balanced perspective, provides students with the basic framework for understanding contemporary police issues while presenting some of the myths and preconceptions commonly associated with the profession. Ethics, responsibility, liability and information on how police work interfaces with forensic science and modern technology are also presented.
This course may be taken 1 time for credit.
Course classification: CTE

**CJ125 The American Court System** 3 credits (3 lec hrs/wk)
This broad-based course will make the students aware of the varying court systems in the United States, the functions of each court, the types of cases they handle, and what professions play a part in each system.
This course may be taken 1 time for credit.
Course classification: LDC

**CJ140 Intro to Forensics** 3 credits (2 lec, 2 lec lab hrs/wk)
An introductory course in forensic science. Forensic science or criminalistics applies the knowledge and technology of science for the definition and enforcement of laws, and to the solution of criminal offenses. Course study will include development of the principles and techniques used to compare and identify physical evidence collected at crime scenes. The course will explore services performed by evidence collection officers or teams as well as activities of forensic scientists in the crime lab.
This course may be taken 1 time for credit.
Course classification: CTE

**CJ155 ROTA 1: Legal Concepts I** 3 credits (3 lec hrs/wk)
Prerequisite(s): Instructor consent
Legal Concepts I is the first module of the Reserve Officer Training Academy. The course offers a basic overview of the criminal justice system in Oregon to reserve police officers and focuses on the Oregon Criminal Code and laws police officers enforce while carrying out their responsibilities. Course content is based on material local law enforcement agency heads want their reserves to be familiar with.
This course may be taken 1 time for credit.
Course classification: CTE

**CJ156 ROTA 2: Legal Concepts II** 3 credits (3 lec hrs/wk)
Prerequisite(s): Instructor consent
Legal Concepts II is the second module of the Reserve Officer Training Academy. The course exposes reserve officers to Oregon constitutional law concepts and the impact for failure to follow those guidelines. The course also exposes the reserve officer to potential civil liability issues and the necessity to be aware of and follow department policy. Course content is based on material local law enforcement agency heads want their reserves to be aware of.
This course may be taken 1 time for credit.
Course classification: CTE

**CJ157 ROTA 3: Human Behavior** 3 credits (3 lec hrs/wk)
Prerequisite(s): Instructor consent
Human Behavior is the third module of the Reserve Officer Training Academy. The course focuses on a variety of topics related to the variety of incidents and people encountered in policing. Topics addressed include professionalism, domestic conflict management, cultural dynamics, communication strategies, traumatic incident awareness and dealing with mentally ill persons. Course content is based on Oregon Department of Public Safety Standards and Training (DPSST) performance objectives.
This course may be taken 1 time for credit.
Course classification: CTE

**CJ158 ROTA 4: Patrol Procedures** 3 credits (3 lec hrs/wk)
Patrol Procedures is the fourth module of the Reserve Officer Training Academy. The course focuses on procedures and practices used in carrying out law enforcement responsibilities. Topics covered include patrol and traffic enforcement procedures, hazardous materials awareness, officer safety while responding to unknown and known incidents and contemporary issues in community policing. Course content is based on Oregon Department of Public Safety Standards and Training (DPSST) performance objectives.
This course may be taken 1 time for credit.
Course classification: CTE

**CJ159 ROTA 5: Investigations** 3 credits (3 lec hrs/wk)
Investigations is the fifth module of the Reserve Officer Training Academy. The module focuses primarily on aspects of preliminary investigations of crimes and introduces students to death investigations. Students are also exposed to accident investigation, investigation concepts related to controlled substances, and report writing. Course content is based on Oregon Department of Public Safety Standards and Training (DPSST) performance objectives.
This course may be taken 1 time for credit.
Course classification: CTE

**CJ160 ROTA 6: Skill Proficiency** 3 credits (1 lec, 4 lec lab hrs/wk)
Skills Proficiency is the sixth module of the Reserve Officer Training Academy. The module focuses primarily on skills needed by police officers to carry out their responsibilities related to defensive tactics and high risk vehicle stops, and on topics related to personal health. Course content is based on Oregon Department of Public Safety Standards and Training (DPSST) performance objectives.
This course may be taken 1 time for credit.
Course classification: CTE

**CJ180 Internship: Criminal Justice** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

**CJ201 Juvenile Justice and Deliquency** 3 credits (3 lec hrs/wk)
This course will cover the history and philosophy of juvenile justice in America and the impact of present societal reforms on the juvenile system. An array of theoretical positions will be discussed and debated (e.g. social structure theories, social process theories, social reaction theories, etc.). The influence of the family, media, peers, socioeconomic status, drugs, gang affiliation, and schools will be covered in detail. An overview of the legal framework in which the juvenile justice system operates will highlight the differences in adult and juvenile law. Study will include known landmark juvenile court cases and current trends impacting juvenile court. The systemic role of the police, the juvenile court and juvenile institutions will be explored. Child abuse and neglect, status offenders, and the unique needs of young people will also be examined. Students will obtain a working knowledge of the juvenile system and issues of juvenile delinquency.
This course may be taken 1 time for credit.
Course classification: CTE

**CJ203 Crisis Intervention** 3 credits (3 lec hrs/wk)
An examination of crisis intervention techniques for the public safety and emergency response professional, covering initial intervention, communication strategies, assessment, and referral. Includes situation-specific approaches and explores the impact of intervention on the public safety and emergency response worker.
This course may be taken 1 time for credit.
Course classification: CTE

**CJ204 Cmty Policing in a Diverse Society** 4 credits (4 lec hrs/wk)
An examination of popular innovations in policing and law enforcement with emphasis on community policing, broken windows policing, problem-oriented policing, pulling levers policing, hot spots policing, third-party policing, Compstat, and evidence-based policing. An analysis of current research and its applicability to policing and law enforcement will be performed in the context of a diverse society.
This course may be taken 1 time for credit.
Course classification: CTE

**CJ210 Criminal Investigation of Crimes Against Property** 3 credits (3 lec hrs/wk)
Students are introduced to the elements of an effective investigation; and to the equipment, technology and procedures that facilitate investigation. Crime scene responsibilities are identified such as documentation, photographing and sketching. Specific crimes against property (theft, burglary, fraud, white-collar crime, arson, cyber crime, narcotics and terrorism) are identified as well as the methods of investigating.
This course may be taken 1 time for credit.
Course classification: CTE

**CJ211 Basic Arson Investigations** 3 credits (3 lec hrs/wk)
This course will provide the student with a basic understanding of arson scene investigations. This includes national standards for certification and training, how first responders impact fire scene investigations and the laws relating to scene investigations.
This course may be taken 1 time for credit.
Course classification: CTE

**CJ212 Basic Fire Investigation** 3 credits (3 lec hrs/wk)
This course will provide the student with a basic understanding of various types of fires. Topics covered include explosion dynamics, youth set fires, fatal fires, motor vehicle fires, wildland fires, and issues surrounding vacant or abandoned buildings.
This course may be taken 1 time for credit.
Course classification: CTE

**CJ213 Interview and Interrogation Skills** 3 credits (3 lec hrs/wk)
A study of the dynamics of psychological persuasion as they are applied through the course of interviews and criminal interrogations. Examines the deliberate, refined processes and techniques of psychological persuasion with an emphasis on the practical and legal limitations.
This course may be taken 1 time for credit.
Course classification: LDC

**CJ214 Criminal Investigations of Crimes Against Persons** 3 credits (3 lec hrs/wk)
An examination of specialized investigative issues specific to a variety of contemporary crime scenes and criminal events. Surveys the specialized investigative approaches unique to homicides and assaults, crimes against children, elder abuse, domestic violence, sex crimes and stalking.
This course may be taken 1 time for credit.
Course classification: CTE

**CJ215 Criminal Justice Administration** 3 credits (3 lec hrs/wk)
An overview of law enforcement administration to include operational and personal management, first-line supervision, and organizational leadership. Explores the historical development of administrative theory and practice as it relates to police operations. Examines policy and procedure formulation, planning and budgeting, personnel recruitment and selection, labor issues and liability.
This course may be taken 1 time for credit.
Course classification: LDC

**CJ220 Introduction to Criminal Law** 4 credits (4 lec hrs/wk)
A study of substantive criminal law. Examines the development and nature of common, constitutional, statutory, and case law in America. Surveys the classification, definition, and essential elements of key crimes as well as defenses to criminal liability. Includes an overview of parties to crimes, inchoate offenses, the distinctions between criminal and civil law, and the philosophy of law as a social force. Exposes students to legal research methods and the study of case law.
This course may be taken 1 time for credit.
Course classification: LDC

**CJ226 Constitutional Law** 4 credits (4 lec hrs/wk)
A study of U.S. constitutional, statutory, and case law as it relates to procedural aspects of criminal law. Examines the rights of persons and the obligations of criminal justice practitioners with an emphasis on the role of the courts and constitutional case interpretation. Explores legal procedure and due process considerations related to the investigation of crime, processing of accused persons, and maintenance of order in American society, including provisions related to detention, arrest, search and seizure, interviews, admissions, use of force, right to counsel, and post-conviction remedies.
This course may be taken 1 time for credit.
Course classification: LDC

**CJ230 Juvenile Justice System** 3 credits (3 lec hrs/wk)
A survey of the U.S. juvenile justice system through an examination of its structure, functions, processes, historical origins and development. Emphasizes the philosophical basis for a separate juvenile justice system. Examines the functional role of law enforcement, the courts, and corrections within that system.
This course may be taken 1 time for credit.
Course classification: LDC

**CJ232 Corrections Counseling and Casework** 3 credits (3 lec hrs/wk)
A survey of correctional philosophy and approaches to behavior modification through specific interviewing and counseling techniques, interpersonal communication skills, client assessment, and programmatic treatment. Explains the role of both criminological and counseling theory to correctional supervision. Describes the role of various corrections employees in the rehabilitative process.
This course may be taken 1 time for credit.
Course classification: LDC

**CJ233 Homicide Investigation** 3 credits (3 lec hrs/wk)
This course presents a thorough overview of how to conduct a proper homicide investigation. Such an investigation will lead to the correct identification and successful prosecution of the person responsible for the homicide. Emphasis will be placed on necessary investigative components such as scene and evidence identification, preservation, and collection. Further emphasis will be placed on the proper identification of suspects and preparing the case for prosecution. The ultimate goal of the course will be to teach the homicide investigator how to develop the truth about what happened so the guilty party can be held accountable for the homicide.
This course may be taken 1 time for credit.
Course classification: CTE

**CJ234 Corrections** 4 credits (4 lec hrs/wk)
This course introduces the philosophy and history of corrections in the United States. Sentencing, correctional institutions, and community corrections are addressed along with critical issues in the field.
This course may be taken 1 time for credit.
Course classification: LDC

**CJ240 Police Report Writing** 3 credits (3 lec hrs/wk)
The study and application of the process of effective police report writing. Proper formal written communications formats with an emphasis on report writing techniques, including the latest electronic formats used by law enforcement agencies.
This course may be taken 1 time for credit.
Course classification: CTE

**CJ247 Ethics in Criminal Justice** 4 credits (4 lec hrs/wk)
The course will examine ethical dilemmas pertaining to the administration of criminal justice, focusing on law enforcement, the courts, corrections, research and crime policy dealing with specific ethical issues related to the criminal justice system. An introduction to ethical decision making through the perspectives of virtue ethics, formalism, and utilitarianism.
This course may be taken 1 time for credit.
Course classification: LDC

**CJ280 CWE: Criminal Justice** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore a variety of workplaces in which to apply that knowledge.
This course may be taken 12 times for credit.
Course classification: LDC

# CULINARY ARTS (CRT)

**CRT100 Culinary Foundations I** 5 credits (2 lec, 6 lec lab hrs/wk)
Prerequisite(s): Instructor consent
This course will focus on the functional principles of modern cooking. Students will learn about mise en place, what happens to food when it is heated, about how food is cooked with dry cooking methods, and about rules of seasoning and flavoring. The foundation of the professional kitchen is introduced through the basics of knife skills, stock, sauce, and soup preparation. Theories explaining the chemistry of cooking will be emphasized so students can successfully practice them in the kitchen. Emphasis will be placed on the vocabulary of cooking, procedures, ingredients, menu terms, food quality standards, and equipment use.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT105 Culinary Foundation II** 5 credits (2 lec, 6 lec lab hrs/wk)
Prerequisite(s): Instructor consent
The student will also focus on learning pre-preparation techniques important to professional kitchen operations - mise en place. Students will build on principles learned in CRT 100 and move forward with moist cooking methods, the study of vegetables, starches, legumes. Also students will be introduced to eggs, egg cookery and all breakfast fare. Coffee and Tea will be discussed as well as the world of fruits. salads, salad dressings and sandwiches are also introduced. The student will also be introduced to pre-preparation for set meal service and extended meal service.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT106 Culinary Foundations 3** 6 credits (1 lec, 10 lec lab hrs/wk)
This course will build on culinary foundational techniques from previous classes. The focus will be on animal butchery, seafood fabrication, modern and advanced culinary techniques, gluten free and vegan cooking. Students will be able to demonstrate fabrication of poultry, pork, beef, lamb, fish and shellfish. Students will learn how to properly package and store butchered meats. Students will be able to define primal and sub primal animal cuts. Cooking a pre fix menu, market baskets, American cuisine, sous vide, molecular gastronomy and plating techniques will also be covered.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT110 Intro to Food and Beverage** 3 credits (3 lec hrs/wk)
Prerequisite(s): Instructor consent
This course offers students an overview of the food service industry: its history, its structure, professional organizations, size and economic impact with a broad review of the various food service segments and the challenges thereof. Students will also be introduced to the front of the house environment including analyzing table service and management practices. Students will review career tracts and opportunities in the culinary arts and baking and pastry industry.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT115 Sanitization & Safety for Managers** 3 credits (3 lec hrs/wk)
Prerequisite(s): Instructor consent
This course develops an understanding of the basic principles of sanitation and safety and enables students to apply them in the foodservice operations. It reinforces personal hygiene habits and food handling practices that protects the health of the consumer. This course is based on The Educational Foundation of the National Restaurant Association?s ServSafe training and certification coursework and include the ServSafe certification examination and standard First Aid training, which meets the standard requirements of OSHA, yet exceeds with CPR (Cardiopulmonary Resuscitation). Safety in the workplace is also covered.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT120 Professional Presentations** 3 credits (3 lec hrs/wk)
Prerequisite(s): Instructor consent
Focuses on effective professional workplace presentations that connect with audiences, direct and hold attention, and promote understanding utilizing multiple visual and oral skills of rhetoric.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT125 Baking & Pastry for Culinary Arts** 5 credits (2 lec, 6 lec lab hrs/wk)
Prerequisite(s): Instructor consent
This course will cover fundamentals of baking and pastry (including terminology, ingredients, technology, equipment, recipe conversion, measurements, storage and sanitation). Students will gain experience in using various mixing methods. Techniques in yeast and quick bread, pastry, pie, cookie, and dessert making and presentation will be covered. The yeast breads that are covered are lean and rich yeast doughs. Also included are laminated doughs, meringues, cakes and icing and creams and custards.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT130 Menu Planning & Inventory Control** 2 credits
Prerequisite(s): Instructor consent
This course will cover the basic principles of planning and design necessary to create a variety of menus for various food service operations. Layout, costing, and promotional approaches will be covered. Students will be required to design and create their own restaurant concept menu. The course will also cover basic principles of purchasing food, equipment and understanding product identification ordering system set up, storing and rotation.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT135 Culinary Nutrition** 3 credits (3 lec hrs/wk)
Prerequisite(s): Instructor consent
This course will cover the study of nutrition as it applied to food preparation, menu analysis, and recipe alternatives for the culinary arts. Students will learn how food affects the human body and will prepare nutritional menus within context of kitchen and restaurant operation.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT140 International Cuisine** 5 credits (2 lec, 6 lec lab hrs/wk)
Prerequisite(s): Instructor consent
This course will focus on various International cuisines. Students will develop a working understanding of the local products, traditional ethnic recipes, and kitchen tools indigenous to various regional cuisines. The course will include the cuisines from international regions including France, Italy, and Scandinavia. Also included are the cuisines of China, Japan, Vietnam, Thailand, Greece, Spain and Germany, & India.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT145 Restaurant Management & Supervision** 3 credits (3 lec hrs/wk)
Prerequisite(s): Instructor consent
This course will focus on the necessary skills for effective restaurant management and supervision by preparing students to transition from employee role to supervisory role. Students will evaluate styles of leadership and develop skills in human relations and personnel management.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT150 American Cuisine** 6 credits (2 lec, 8 lec lab hrs/wk)
Prerequisite(s): Instructor consent
The course is designed to acquaint the student with the classical cuisines of the United States. The history of the cuisine, as well as the preparation and presentation of native foods will be stressed.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT155 Garde Manger** 6 credits (2 lec, 8 lec lab hrs/wk)
Prerequisite(s): Instructor consent
This course will cover the preparation and artistic presentation of cold cuisine. While using garde manger small tools, students will develop skills in the fundamentals of preparing hot and cold appetizers and hors d' oeuvres, canapés, lunch and dinner salads, dressings, terrines, galantines, pâtes, and charcuterie, vegetable and fruit carving, garnishes, hot and cold sandwiches, and food decoration. Basics of cold food pantry organization and sanitizing techniques will be covered. Students will be introduced to the artistic production and presentation of buffet arrangements.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT160 Craft of Beverage Service** 3 credits (3 lec hrs/wk)
Prerequisite(s): Instructor consent
This course will introduce students to the basic principles of the world of beverages as it relates to food service operations. Students will study a variety of menus for various styles of beverage service operations. Topics will include coffee, tea, wine and beer. The course will also cover basic principles of service and how to display beverages with food.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT165 Restaurant Service** 10 credits (2 lec, 16 lec lab hrs/wk)
Prerequisite(s): Instructor consent
Students prepare menu offerings for the college's Chef's Table restaurant for the dining public. Emphasis is on station readiness (under strict time constraints), implementation of basic cooking methods, quality of presentation, and an exploration of a variety of cuisines from around the world in a cook-to-order format. Students will have an opportunity to perform front of house duties as a server. Students will be required to follow all Culinary department dress standards.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT170 Baking & Pastry Foundations I** 5 credits (2 lec, 6 lec lab hrs/wk)
Prerequisite(s): Instructor consent
This course covers baking and pastry fundamentals, including the history, terminology, bakers percentages, ingredients, technology, equipment, storage and sanitation in the bakeshop. Students gain experience in using various mixing, holding and baking methods, as well as international techniques, to create an assortment of lean yeast doughs, quick breads and laminated pastries.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT175 Baking & Pastry Foundations II** 5 credits (2 lec, 6 lec lab hrs/wk)
Prerequisite(s): Instructor consent
This course covers more advanced bakery techniques. Students will learn the production methods for American and European artisan breads, breads using natural yeast, decorative breads using some basic sculpting techniques, European style pastries and tarts as well as a variety of international cookies. Sugar free, reduced sugar, wheat free, lactose free, and reduced fat baking will be covered in this course.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT185 Baking & Pastry Foundations III** 5 credits (2 lec, 6 lec lab hrs/wk)
Prerequisite(s): Instructor consent
This course will build on the fundamentals learned in Foundations I & II to create delicious and beautiful pastries to fill the bakery showcase. Students will combine recipes and techniques, introducing new ways to garnish and finish an array of pastries. Choux pastry, puff pastry, and an assortment of enhanced fillings will be assembled and finished in a variety of ways. This will also showcase classic and contemporary cakes, frozen desserts, and an introduction to confectionaries.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT190 Culinary Arts for Baking & Pastry** 5 credits (2 lec, 6 lec lab hrs/wk)
Prerequisite(s): Instructor consent
This course is designed specifically for students specializing in the Baking and Pastry program. They are introduced to the philosophy of the hospitality industry through its history, growth and development of present trends in the culinary kitchen. This course will place emphasis on culinary foundations.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT195 Retail Baking** 5 credits (2 lec, 6 lec lab hrs/wk)
Prerequisite(s): Instructor consent
This course will focus on the development of retail bakery concepts to include research and development of products, production of an assortment of baked goods including savory as well as sweet items, breakfast pastries including Viennoiserie, tea sandwiches, and other savory and sweet items. Students will be responsible for running a model bakery. Students will also learn basic service skills to include bakery counter service, buffets and banquets.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT200 Advanced Confectionary** 2 credits (2 lec hrs/wk)
Prerequisite(s): Instructor consent
This course takes the student to a higher level of sugar and chocolate skills such as blown sugar, sugar presentation pieces, chocolate display pieces, molded chocolates, bon bons, truffles, nougatine, crystalline and non-crystalline and gelee based candies. Students design and execute show pieces to display cakes, candies and other confections for their capstone project. Topics include velvetizing with chocolate, making silicon chocolate and sugar molds, building sugar and chocolate show pieces to include blown sugar, molded chocolate and other advanced sugar products.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT2018 Culinary Arts Career Planning** 1 credit (1 lec hrs/wk)
Prerequisite(s): Instructor consent
This course will focus on the development of habits, traits and standards necessary for success in todays culinary arts job market. Students will review career paths and opportunities in the culinary and baking and pastry industry. Interview skills, resume and portfolio development will be included.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT205 Wedding Cakes** 5 credits (2 lec, 6 lec lab hrs/wk)
Prerequisite(s): Instructor consent
This course will focus on the successful execution of modern day wedding cakes. Students will learn a brief history of wedding cakes but the primary focus will be on today's styles and trends. Set up & marketing strategies will be covered in this course in addition to the construction of wedding cakes.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT280B1 Directed Practice: Baking & Pastry** 6 credits (18 lab hrs/wk)
Prerequisite(s): Instructor consent
This course offers students workplace experience in a variety of supervised settings that are applicable to the development of a student as a professional in the food service industry. Students will have the opportunity to work in different areas under the direction of chefs and food/beverage managers. Externships will be progressive training experiences structured to fit the background and career goals of each individual student.
This course may be taken 2 times for credit.
Course classification: CTE

**CRT280B2 Directed Practice: Baking & Pastry** 12 credits (36 lab hrs/wk)
Prerequisite(s): Instructor consent
This course offers students workplace experience in a variety of supervised settings that are applicable to the development of a student as a professional in the food service industry. Students will have the opportunity to work in different areas under the direction of chefs and food/beverage managers. Externships will be progressive training experiences structured to fit the background and career goals of each individual student.
This course may be taken 1 time for credit.
Course classification: CTE

**CRT280C1 Directed Practice: Culinary Arts** 6 credits (18 lab hrs/wk)
Prerequisite(s): Instructor consent
This course offers students workplace experience in a variety of supervised settings that are applicable to the development of a student as a professional in the food service industry. Students will have the opportunity to work in different areas under the direction of chefs and food/beverage managers. Externships will be progressive training experiences structured to fit the background and career goals of each individual student.
This course may be taken 2 times for credit.
Course classification: CTE

**CRT280C2 Directed Practice: Culinary Arts** 12 credits (36 lab hrs/wk)
Prerequisite(s): Instructor consent
This course offers students workplace experience in a variety of supervised settings that are applicable to the development of a student as a professional in the food service industry. Students will have the opportunity to work in different areas under the direction of chefs and food/beverage managers. Externships will be progressive training experiences structured to fit the background and career goals of each individual student.
This course may be taken 1 time for credit.
Course classification: CTE

# DENTAL (DEN)

**DEN101 Dental Assisting I** 4 credits (3 lec, 3 lab hrs/wk)
Prerequisite(s): ( MTH20 )
Dental Assisting I introduces the basic concepts of preventative dentistry and the dental assistant's role including dental terminology, infection control, basic microbiology, pharmacology, nutrition, oral and facial anatomy, tooth numbering, names of tooth surfaces, dental charting and oral assessment, the use of dental instruments and the various procedures used by dentists, dental asepsis techniques, patient education, legal and ethical issues, the collection of clinical data, and patient psychology as it relates to anxiety and pain management. Students are introduced to the members of a dental team, current professional trends and the various procedures within a dental office, including receptionist duties, bookkeeping, and chairside dental assisting. Lab provides hands-on clinical instruction of the lecture material presented and the material covered in this course.
This course may be taken 1 time for credit.
Course classification: CTE

**DEN102 Infection Control** 2 credits (2 lec hrs/wk)
Prerequisite(s): ( MTH20 )
Corequisite(s): ( DEN103 )
This class prepares the student for DANB's (Dental Assisting National Board) ICE (Infection Control Exam). The class is designed to prepare students in: Patient and dental healthcare worker education, standard/ universal precautions and prevention of disease transmission, prevention of cross contamination, maintaining aseptic conditions, performing sterilization procedures, environmental asepsis, and occupational safety.
This course may be taken 1 time for credit.
Course classification: CTE

**DEN103 Introduction to Dental Assisting Seminar** 1 credit (1 lec hrs/wk)
Prerequisite(s): ( MTH20 )
Corequisite(s): ( DEN102 )
This course provides an extensive overview of office responsibilities and work ethics. It prepares students for the challenge of their multiple roles in the dental office including: Guest, intern, student-worker, administrative assistant, chairside assistant and housekeeping worker. Students will review and discuss the expectations and protocols for their upcoming practicum classes including, but not limited to, the stages of an internship, the weekly required paperwork, work ethics, industry safety standards and stategies for meeting their learning objectives.
This course may be taken 1 time for credit.
Course classification: CTE

**DEN104 Dental & Medical Emergency Mngmt** 2 credits (2 lec hrs/wk)
Prerequisite(s): ( DEN101 and DEN102 )
This class covers routine perparedness for dental team members; the dental assistant's role in emergency care; managing a dental office emergency kit; foreign body airway obstruction; the causes, signs, and treatment of medical emergencies; and specific dental emergencies. This course is deigned to satisfy the American Dental Association's requirement that certified dental assistants have in-depth education in managing dental and medical emergencies.
This course may be taken 1 time for credit.
Course classification: CTE

**DEN105 Dental Materials** 2 credits (2 lec hrs/wk)
Prerequisite(s): ( DEN101 and DEN102 )
Corequisite(s): ( DEN104 and DEN107 and DEN110 )
This class covers impression materials, model and die materials, fabrication of dental trays, preventive dental materials, esthetic and restorative dental materials, amalgam, dental cements, waxes, and temporary restorative materials. The class is designed to satisfy the American Dental Association's requirement that certified dental assistants have in-depth education in dental materials.
This course may be taken 1 time for credit.
Course classification: CTE

**DEN107 Practicum in Dental Assisting I** 4 credits (12 lab hrs/wk)
Prerequisite(s): ( DEN101 and DEN102 and DEN103 )
Corequisite(s): ( DEN104 and DEN105 and DEN110 )
This course provides students with hands-on clinical experience. Students work an average of 13-15 hours per week in a host site as part of the dental team. Student placement duties will be assigned according to the student's skill level and the work needs of the host site.
This course may be taken 1 time for credit.
Course classification: CTE

**DEN109 Dental Assisting II** 4 credits (3 lec, 3 lab hrs/wk)
Prerequisite(s): ( DEN101 and DEN102 and DEN103 )
This course builds on the material learned in Dental Assisting I, specifically reinforcing oral and facial anatomy, tooth numbering, names of tooth surfaces, dental charting and oral assessment. The course will provide an in-depth view of specific, practical dental assisting skills in dental specialties. Topics covered in class will include the major dental specialties: oral surgery, endodontics, periodontics, prosthodontics, and orthodontics. Anatomical content covered will include the muscles, nerves, glands, and bones of the head and neck; the structures and tissues that make-up the oral cavity; and the development, tissues, morphology, and functions of the teeth. The class is designed to satisfy the American Dental Association's requirement that certified dental assistants have in-depth education in the anatomy of the head, skull, and oral cavity; and tooth morphology. Lab provides hands-on clinical instruction of the lecture material presented.
This course may be taken 1 time for credit.
Course classification: CTE

**DEN110 Dental Radiology** 4 credits (3 lec, 3 lab hrs/wk)
Prerequisite(s): Instructor consent
This class prepares the student for the Dental Assisting National Board (DANB) Radiation Health & Safety (RHS) exam - one of two exams required for the Certificate in Radiologic Proficiency from the State of Oregon, which is required to legally expose radiographs. To become fully certified, students must also pass the Oregon Clinical Radiologic Proficiency Exam administered by DANB. This class is designed to prepare students in the following sections: Radiation safety for the patient, radiation safety for the operator, exposing and evaluating radiographs, processing films, mounting and labeling radiographs, and techniques used in performing a full mouth radiographic exam. Lab provides hands-on clinical instruction of the lecture material presented. Students demonstrate the capabilities and understanding through clinical evaluation in a lab setting.
This course may be taken 1 time for credit.
Course classification: CTE

**DEN111 Practicum in Dental Assisting II** 4 credits (12 lab hrs/wk)
Prerequisite(s): ( DEN107 )
Practicum in Dental Assisting II provides students hands-on clinical experience. Students work an average of 13-15 hours per week in a host site as part of the dental team. Student placement duties will be assigned according to the student's skill level and the work needs of the host site.
This course may be taken 1 time for credit.
Course classification: CTE

**DEN112 Chairside Assisting** 2 credits (2 lec hrs/wk)
This class prepares the student for the National Entry Level Dental Assisting (NELDA) exam administered by the Dental Assisting National Board. The class is deisgned to prepare students in the following sections: Collection and recording of clinical data; chairside dental procedures; oral anatomy; chairside dental materials (preparation, manipulation, application); lab materials and procedures; patient education and oral health management; infection control procedures; occupational safety; legal issues; prevention and management of emergencies; office management procedures, anatomy and physiology related to dentistry.
This course may be taken 1 time for credit.
Course classification: CTE

**DEN113 Expanded Functions Dental Assistant** 2 credits (4 lec lab hrs/wk)
This class prepares the student for the Oregon Board of Dentistry written exam in expanded functions for the chairside dental assistant (EFDA). Expanded functions are determined by the Oregon Board of Dentistry and may change without prior notice. The exam is administered by the Dental Assisting National Board. Students will still need a NELDA certificate before becoming EFDA certified. (General Dental Assisting EFDA Certification: Pathway III). The class is designed to prepare students in the following sections: Placing matrix bands; polishing amalgam fillings; cement removal; taking impressions; coronal polishing; fabricating temporary crowns and tooth whitening. Lab provides hands-on clinical instruction of the lecture material presented and material covered in the course. Students demonstrate their capabilites and understanding through clinical evaluation in a lab setting.
This course may be taken 1 time for credit.
Course classification: CTE

**DEN114 Dental Admin & Legal and Ethical** 4 credits (2 lec, 3 lab, 2 lec lab hrs/wk)
Dental Administration & Legal and Ethical Issues in Dentistry exposes the student to variety of Administrative Duties, and legal and ethical dilemmas, helping students become more prudent, confident, and competent dental professionals. Classroom content includes: the legal system, the legal rights that define relationships between individuals, quality assurance, office protocols and patient records, and legal issues that affect employment. Students will develop administrative communication skills, written correspondence skills, and patient relations. The students will develop team communication skills, and keep accurate patient clinical records. Students will become familiar with scheduling and recall systems, and how insurance claims are processed. Students will understand the legal and proper ways to establish financial arrangements within accounts receivable and payable, and collections procedures. This course is designed to satisfy the American Dental Association's requirements.
This course may be taken 1 time for credit.
Course classification: CTE

**DEN180 Internship: Dental Assisting** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore the variety of workplaces in which to apply that knowledge.
This course may be taken 12 times for credit.
Course classification: LDC

**DEN280 CWE: Dental Assisting** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore a variety of workplaces in which to apply that knowledge.
This course may be taken 12 times for credit.
Course classification: CTE

# DIESEL MECHANIC TECHNOLOGY (DS)

**DS110 Heavy Duty Brakes** 12 credits (3 lec, 18 lec lab hrs/wk)
Prerequisite(s): Instructor consent
Examines concepts in medium/heavy duty truck brake system. Operation, diagnosis, testing and repair. Covers air brake systems, hydraulic brake systems, truck foundation brake, antilock brakes and preventive maintenance schedules and procedures in on and off highway heavy-duty equipment.
This course may be taken 1 time for credit.
Course classification: CTE

**DS111 Heavy Duty Hydraulics** 12 credits (3 lec, 18 lec lab hrs/wk)
Prerequisite(s): Instructor consent
Covers theory and operation of hydraulic systems on heavy equipment, farm machinery and other equipment. This includes introductions to hydraulics and safety system components; reservoirs, seals, filters, pumps, accumulators, oil coolers, pressure, flow, and directional control valves, linear and rotary actuators, connectors, conducators, circuits, ANSE and ISO symbols and schematics, electronically controlled hydadic systems, pilot controlled hydraulic systems, manually controlled hydraulic systems as used on heavy equipment.
This course may be taken 0 times for credit.
Course classification: CTE

**DS112 Heavy Duty Powertrains And Chassis** 12 credits (3 lec, 18 lec lab hrs/wk)
Prerequisite(s): Instructor consent
Operation, diagnosing, testing and repair of heavy equipment chassis and power trains. Prepares student to confidently work on frames; suspensions; conventional steering systems; final drives and steering mechanisms; clutches; torque converts; standard transmissions; powershift transmissions; drive lines; front- and rear - drive units; heavy duty tires, wheels, rims, and wheel hubs.
This course may be taken 1 time for credit.
Course classification: CTE

**DS220 Diesel and Auxiliary Fuel Systems** 12 credits (3 lec, 18 lec lab hrs/wk)
Prerequisite(s): Instructor consent
Operation diagnosis, testing, and repair of diesel and auxiliary fuel systems. Covers fuel injection pumps and their applications fuel system diagnosis and repair. Prepares students to confidently diagnose and repair fuel injection pumps, governors and electronics in an industrial environment. Emphasizes safety, correct industry procedures, correct tool usage, and diagnosis of common fuel-related problems.
This course may be taken 1 time for credit.
Course classification: CTE

**DS221 Diesel Electrical System** 12 credits (3 lec, 18 lec lab hrs/wk)
Prerequisite(s): Instructor consent
This course provides introduction to electrical fundamentals and safety, vehicle, system components, batteries and battery banks, alternators and charging system, electrical circuits, switches, relay, solenoids, lighting, electrical accessories, electronic control systems, schematics, wiring harnesses and HVAC systems as they are used on heavy duty trucks and equipment.
This course may be taken 1 time for credit.
Course classification: CTE

**DS222 Diesel Engines and Engine Overhaul** 12 credits (3 lec, 18 lec lab hrs/wk)
Prerequisite(s): Instructor consent
This course provides diesel engines theory and hands-on experience in rebuilding and servicing diesel engines, including, testing, diagnosis, measurement and repair. Emphasizes safety and use of service manuals and textbooks. Prepares students to confidently diagnose and tune up a diesel engine in an industrial environment. Covers preventive maintenance inspection (PMI) of vehicles, Department of Transportation (DOT) out of service criteria, PM scheduling, and lubricants.
This course may be taken 1 time for credit.
Course classification: CTE

# DIGITAL DESIGN (DD)

**DD110 Game Design & Interactive Media** 4 credits (3 lec, 2 lec lab hrs/wk)
This course introduces students to game and interactive media design fundamentals, including core gameplay mechanics, game physics, player engagement, and storytelling. Students will use Unity Editor, Photoshop, Illustrator, and Visual Studio to create 2D game assets, interactive experiences, and playable prototypes. Students will gain hands-on experience in level design, animation, UI/UX, and game balancing, while also exploring career opportunities in game development, interactive storytelling, and user experience (UX) design. By the end of the course, students will develop a playable 2D game prototype and a digital portfolio showcasing their game design work.
This course may be taken 1 time for credit.
Course classification: CTE

**DD111 Interactive 3D Environments** 3 credits (2 lec, 2 lec lab hrs/wk)
This course introduces students to Unreal Engine for game development, interactive experiences, and real-time rendering. Designed for those with prior Unity experience, it covers level design, Blueprints visual scripting, physics interactions, and rendering techniques. Students will develop a playable 3D game prototype while learning best practices for interactive environments. By the end of the course, they will navigate Unreal Engine's interface, create gameplay mechanics using Blueprints, and apply real-time rendering for high-quality visuals. This course is ideal for students interested in game design, 3D world-building, and interactive media production.
This course may be taken 1 time for credit.
Course classification: CTE

**DD125 Digital Imaging & Graphic Design** 3 credits (2 lec, 2 lec lab hrs/wk)
This foundational course provides students with essential skills in digital imaging, graphic design, and branding using Adobe Photoshop and Illustrator. The course covers photo editing, retouching, vector illustration, branding, layout design, and motion-ready graphics, with a strong emphasis on industry workflows and best practices. Students will develop professional-quality digital assets for branding, web, print, and motion graphics applications, ensuring they are job-ready for careers in graphic design, multimedia production, UI/UX, and digital marketing.
This course may be taken 1 time for credit.
Course classification: CTE

**DD130 3d Modeling & Environment Design** 3 credits (2 lec, 2 lec lab hrs/wk)
This course introduces students to 3D modeling for game environments, real-time applications, and virtual production, emphasizing game-ready asset creation, UV mapping, texturing, and optimization. Using Maya (or Blender), students will develop props, modular environments, and terrain assets while learning industry-standard workflows for integration into game engines like Unity. Students will focus on hard surface modeling, material creation, and environmental storytelling. By the end of the course, students will have a fully textured, optimized 3D environment asset for their professional portfolio.
This course may be taken 1 time for credit.
Course classification: CTE

**DD135 3d Asset Creation** 3 credits (2 lec, 2 lec lab hrs/wk)
This course introduces character design and 3D asset creation for games, animation, and interactive media. Students will develop original concepts, create 2D and 3D assets, and learn industry workflows using Photoshop, Maya, or Blender. Through hands-on projects, they will design compelling characters, model and texture game-ready assets, and apply efficient 2D-to-3D production techniques. By the end of the course, students will have portfolio-ready work prepared for Unity, Unreal Engine, and other game engines. Ideal for those interested in character art, concept design, and game asset creation, this course builds a strong foundation in digital art and interactive media.
This course may be taken 1 time for credit.
Course classification: CTE

**DD160 Digital Design Orientation** 3 credits (3 lec hrs/wk)
This course provides an essential foundation for students entering the Digital Design program, introducing them to the industry, tools, creative workflows, and professional expectations. Students will explore career paths in graphic design, interactive media, motion graphics, game design, extended reality (XR), and digital marketing while developing essential skills in file management, project organization, critique participation, and industry best practices. Students will gain hands-on experience with software navigation, digital asset organization, teamwork strategies, and creative problem-solving techniques. The course prepares students for collaborative projects, career readiness, and long-term professional growth. By the end, students will have built a personalized career roadmap, a creative mindset, and a foundational understanding of digital design tools and workflows.
This course may be taken 1 time for credit.
Course classification: CTE

**DD165 Web & Interactive Media Design** 3 credits (2 lec, 2 lec lab hrs/wk)
This course introduces students to modern web and interactive media design using HTML, CSS, JavaScript, and content management systems (CMS) such as WordPress and Webflow. Students will develop responsive, user-friendly websites and interactive digital experiences, incorporating UX/UI principles, motion design, and accessibility standards. By the end of this course, students will have built a portfolio-ready website that demonstrates their web development, interactive design, and digital content creation skills for careers in web design, UI/UX, front-end development, and digital marketing.
This course may be taken 1 time for credit.
Course classification: CTE

**DD170 Programming For Digital Media** 4 credits (3 lec, 2 lec lab hrs/wk)
This beginner-friendly programming course introduces fundamental coding concepts through C#, emphasizing applications in interactive media, generative art, and basic game mechanics. Students will write scripts for digital interactions, develop logic-based behaviors, and build simple interactive projects.
This course may be taken 1 time for credit.
Course classification: CTE

**DD171 Coding For Games & Interactive Medi** 3 credits (2 lec, 20 lec lab hrs/wk)
This course builds on Programming for Digital Media by applying C# programming to interactive experiences in Unity, with a focus on game development, augmented reality (AR), virtual reality (VR), and interactive media. Students will develop interactive applications, implement physics, animation, and user interaction in real-time 3D environments, and explore key game development concepts such as object management, AI, and UI design. The course also introduces AR/VR development frameworks, equipping students with the skills to create immersive digital experiences.
This course may be taken 1 time for credit.
Course classification: CTE

**DD172 Coding 3d Motion & Automation** 4 credits (3 lec, 2 lec lab hrs/wk)
This course introduces students to Python programming for 3D animation, automation, and creative coding in Autodesk Maya and Blender. Designed for beginners, it covers fundamental programming concepts while teaching students to write scripts that automate tasks, manipulate objects, and generate procedural motion. With a focus on practical industry applications, students will learn to streamline workflows, enhance creativity through coding, and develop small tools to improve efficiency in 3D production.
This course may be taken 1 time for credit.
Course classification: CTE

**DD210 X R Design & Development** 3 credits (2 lec, 2 lec lab hrs/wk)
This course provides an in-depth exploration of Extended Reality (XR), including Augmented Reality (AR), Virtual Reality (VR), and Mixed Reality (MR). Students will design, develop, and optimize immersive experiences using industry-standard tools such as Unity, Unreal Engine, WebXR, and Spark AR. Through hands-on projects, students will master 3D spatial design, user interactions, world-building, and optimization techniques while considering accessibility, usability, and ethical implications of immersive media. The course culminates in a functional XR prototype, demonstrating students' ability to create interactive, engaging, and optimized experiences for various XR platforms.
This course may be taken 1 time for credit.
Course classification: CTE

**DD215 Real-Time Motion & Interactivity** 3 credits (2 lec, 2 lec lab hrs/wk)
This course explores real-time motion graphics, procedural animation, and interactive media design for games, XR (AR/VR), and digital experiences. Students will learn real-time animation techniques, UI motion for games, and immersive storytelling, leveraging Unity, Unreal Engine, Blender, and After Effects. By the end of this course, students will be able to animate assets in a real-time engine, create interactive motion elements, and develop immersive experiences—preparing them for entry-level roles in game UI, XR motion design, and real-time VFX.
This course may be taken 1 time for credit.
Course classification: CTE

**DD225 Motion Graphics & Visual Effects** 3 credits (2 lec, 2 lec lab hrs/wk)
This course introduces students to the fundamentals of motion graphics, animation, and visual effects (VFX) using Adobe After Effects, Photoshop, and Illustrator. Students will learn key animation principles, kinetic typography, shape animations, motion tracking, green screen techniques, and visual effects for branding, marketing, UI/UX, and digital storytelling. By the end of the course, students will have a portfolio of animated assets showcasing their motion design, animation, and VFX skills for careers in motion graphics, UI/UX, video production, and digital marketing.
This course may be taken 1 time for credit.
Course classification: CTE

**DD230 3d Animation & Motion** 3 credits (2 lec, 2 lec lab hrs/wk)
This course introduces students to 3D animation for real-time applications in games and XR (Extended Reality), focusing on rigging, character animation, motion physics, and interactive movement. Students will use digital animation software to develop keyframe animations, looping cycles, and physics-based motion. By exploring rigging fundamentals, weight painting, and animation principles, students will gain hands-on experience creating animations that are responsive, expressive, and optimized for interactive applications. The course culminates in a final animated project that integrates character or object animations into a game/XR environment.
This course may be taken 1 time for credit.
Course classification: CTE

**DD235PH Digital Design App: Photoshop** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( CIS125PH )
This course offers students the opportunity to apply contemporary industry software and design principles to the planning, design, and development of digital design projects. Students will independently research and employ advanced solutions to meet design project challenges and refine their software skills in preparation for associated industry certification exams.
This course may be taken 1 time for credit.
Course classification: CTE

**DD250 Projects in Digital Media** 3 credits (2 lec, 3 lab hrs/wk)
Prerequisite(s): ( CIS125DW and DD235PH )
This course serves as the culmination of a student's education in digital media, providing an opportunity to develop, refine, and present a professional-level interactive or digital media project. Students will apply industry-standard production workflows and project management skills to create work aligned with their career goals, including web design, UI/UX, game development, motion graphics, AR/VR applications, and digital marketing. Through an iterative design process, students will integrate user feedback, optimize their projects for usability, accessibility, and performance, and prepare a final presentation for professional critique. By the end of the course, students will have a portfolio-ready project that showcases their technical expertise, creative vision, and readiness for careers in interactive media, digital design, and technology industries.
This course may be taken 1 time for credit.
Course classification: CTE

**DD280 CWE: Digital Design** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow student to test knowledge learned in the classroom and explore a variety of workplaces in which to apply that knowledge.
This course may be taken 12 times for credit.
Course classification: LDC

**DD297 Digital Design Capstone** 3 credits (2 lec, 3 lab hrs/wk)
Prerequisite(s): ( CIS195 and DD250 )
This course prepares students for the professional world by focusing on portfolio development, personal branding, and job-seeking strategies. Students will refine their best work, build a compelling digital portfolio, and establish a strong online presence on platforms like LinkedIn, Behance, and GitHub. They will craft industry-specific resumes, cover letters, and job applications while mastering interview techniques, networking, and negotiation skills. The course also explores freelancing, contract work, and alternative career paths in digital media. By the end, students will have an industry-ready portfolio and the tools to secure employment, freelance opportunities, or entrepreneurial ventures in digital design, game development, UI/UX, animation, web development, and multimedia production.
This course may be taken 1 time for credit.
Course classification: CTE

# DRAFTING (DRFT)

**DRFT100 Computer Assisted Drafting Survey** 3 credits (3 lec hrs/wk)
Introduction to computer assisted drafting (CAD) software and its typical uses in creating 2-D drawings. Instruction will include system requirements, menu structure, drawing setup, drawing aids, basic drawing, editing, display and dimensioning. Also using blocks, graphic patterns and printing commands. AutoCAD software is utilized to produce 2-D schematic and mechanical drawings.
This course may be taken 1 time for credit.
Course classification: CTE

**DRFT105 Blueprint Reading For Welders** 3 credits (3 lec hrs/wk)
Presents instruction and skill development in blueprint interpretation and fabrication drawings. Emphasis is placed on fundamentals of blueprint reading including understanding basic lines, views, dimensions, tolerances, symbols, machine call-outs, and notations. Emphasis is on Blueprints as used in the welding trades with considerable time learning how to properly interpret AWS welding symbols.
This course may be taken 1 time for credit.
Course classification: CTE

**DRFT110 Computer Assisted Drafting I** 3 credits (3 lec hrs/wk)
Introduction to computer aided drafting (CAD) using AutoCADD software and hardware components comprising a typical CAD workstation. Starting the computer and software, workstation adjustment, drawing beginning and set-up, basic drawing commands and organization, editing and display, dimensioning, printing and plotting, and using the template and display commands to create conceptual design and construction documents.
This course may be taken 1 time for credit.
Course classification: CTE

**DRFT111 Computer Assisted Drafting II** 3 credits (3 lec hrs/wk)
Continued study of computer aided drafting (CAD) using AutoCADD software and hardware components comprising a typical CAD workstation. Using advanced linework, assignment to layers, and advanced dimensioning. Becoming fluent with options, shortcuts, CUI, the Design Center and Exporess Tools. Developing Advanced Design concepts, and using File Management Tools to store and share documents. Importing and exporting files and drawings, and the utilization of External References (XREFs) in expanding the abilities for complex documents. Using the tools, templates and commands to create, edit and share computer aided drafting documents that are the standard of the design and construction document industry.
This course may be taken 1 time for credit.
Course classification: CTE

**DRFT112 Computer Assisted Drafting III** 3 credits (3 lec hrs/wk)
This course demonstrates the use of the computer to create 3D Solid Models using the SolidWorks Computer Aided Drafting (CAD) system. Solid modeling software will be used to draw, dimension, define, and interface seprate solid pieces that will be joined into a working machine model. The solid models will be used to generate 2D and 3D fabrication documents with exploded assemblies and presentation files that would be used in the forging and machining of machine parts. The computers at the CAD workstations with pre-loaded software will be utilized for this class.
This course may be taken 1 time for credit.
Course classification: CTE

**DRFT180 Internship: Drafting** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore the variety of workplaces in which to apply that knowledge
This course may be taken 12 times for credit.
Course classification: LDC

**DRFT280 CWE: Drafting** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore a variety of workplaces in which to apply that knowledge.
This course may be taken 12 times for credit.
Course classification: LDC

# EARLY CHILDHOOD EDUCATION (ECE)

**ECE102 Theory and Practice II Pre-K** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( ECE209 and ECE209B )
The third in a sequence of courses with a practicum co-requisite designed to assist students gaining experience working with young children in a laboratory or qualified preschool setting. The various roles of early childhood educators, assisting with daily activities in a preschool program, observation/assessment, and guidance techniques are included in the course curriculum. The intellectual and emotional developmental domains are emphasized. Lesson plans are developed and implemented with small groups.
This course may be taken 1 time for credit.
Course classification: CTE

**ECE102B Practicum III Pre-K** 2 credits
Prerequisite(s): ( ECE209 and ECE209B ), or instructor consent
Third in a sequence of Practicum courses. Taken concurrently with ECE 102 this practicum is designed to assist students in gaining experience working with young children in a laboratory or qualified preschool setting The various roles of the early childhood educator, assisting with various daily activities in a preschool program, observation/assessment, and guidance techniques are included in the course curriculum. The intellectual and emotional developmental domains are emphasized. Lessons plans are developed and implemented with small groups.
This course may be taken 1 time for credit.
Course classification: CTE

**ECE150 Introduction and Observation in ECE** 4 credits (4 lec hrs/wk)
A beginning course focusing on the theoretical foundations, history and basic concepts of early childhood education. The value and usage of objective observations as a teaching tool are emphasized. This course focuses on an introduction to the education of infant-toddler, preschoolers, and children in Kindergarten through third grade.
This course may be taken 1 time for credit.
Course classification: CTE

**ECE151 Guidance and Classroom Management** 3 credits (3 lec hrs/wk)
This course introduces students to the principles of positive guidance, emphasizes the role of the teacher, and the use of direct and indirect techniques for individual and group guidance and management. Topics include observing children, managing behavior, building prosocial behaviors, and helping young children develop in the social and emotional domains.
This course may be taken 1 time for credit.
Course classification: LDC

**ECE152 Creative Activities in ECE** 3 credits (3 lec hrs/wk)
A practical curriculum course focusing on understanding and implementing a developmental approach to creative activities. Emphasis is on integrating curriculum across the teaching disciplines. Specifically, this course teaches students how to develop creative art, music, drama, and movement curriculum for infants, toddlers, and preschool children.
This course may be taken 1 time for credit.
Course classification: LDC

**ECE154 Children's Language and Lit Dev** 3 credits (3 lec hrs/wk)
Students will learn how young children develop literacy and language skills. Students will explore how to develop strategies for teaching language acquisition and literacy skill development at each developmental stage through the four interrelated areas of speaking, listening, writing, and reading. Quality children's literature, ways to implement its use, and ways to evaluate its appropriateness for young children are discussed.
This course may be taken 1 time for credit.
Course classification: LDC

**ECE161 Theory and Practice I Inf/Tod** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( ECE263 ), or instructor consent
Corequisite(s): ( ECE161B )
The second in a sequence of courses with a practicum co-requisite designed to assist students in gaining experience working with very young children in a laboratory or qualified infant/toddler setting. The various roles of the early childhood educator, assisting with various daily activities in an infant/toddler program, observation/assessment, and guidance techniques are included in the course curriculum. The physical and social domains are emphasized.
This course may be taken 1 time for credit.
Course classification: CTE

**ECE161B Practicum II Inf/Tod** 2 credits (6 lab hrs/wk)
Prerequisite(s): Instructor consent
Corequisite(s): ( ECE161 )
Second in a sequence of Practicum courses. Taken concurrently with ECE 161 this practicum is designed to assist students in gaining experience working with infants and/or toddlers in a laboratory or qualified preschool setting The various roles of the early childhood educator, assisting with various daily activities in a program, observation/assessment, and guidance techniques are included in the course curriculum. The physical and social domains are emphasized.
This course may be taken 1 time for credit.
Course classification: CTE

**ECE162 Theory and Practice II Inf/Tod** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( ECE161 and ECE161B ), or instructor consent
Corequisite(s): ( ECE162B )
The third in a sequence of courses with a practicum co-requisite designed to assist students gaining experience working with very young children in a laboratory or qualified infant/toddler setting. The various roles of early childhood educators, assisting with daily activities in an infant/toddler program, observation/assessment, and guidance techniques are included in the course curriculum. The intellectual and emotional developmental domains are emphasized. Lessons plans are developed and implemented with small groups.
This course may be taken 1 time for credit.
Course classification: CTE

**ECE162B Practicum III Inf/Tod** 2 credits (6 lab hrs/wk)
Prerequisite(s): ( ECE161 and ECE161B ), or instructor consent
Corequisite(s): ( ECE162 )
Second in a sequence of Practicum courses. Taken concurrently with ECE 209 this practicum is designed to assist students in gaining experience working with young children in a laboratory or qualified preschool setting The various roles of the early childhood educator, assisting with various daily activities in a preschool program, observation/assessment, and guidance techniques are included in the course curriculum. The physical and social domains are emphasized.
This course may be taken 1 time for credit.
Course classification: CTE

**ECE163 Environments and Guidance in ECE** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( ECE150 ), or instructor consent
The first in a sequence of courses with a practicum co-requisite designed to assist students in gaining experience working with young children in a laboratory or qualified preschool setting. Students gain experience identifying developmentally appropriate learning environments, completing observations and assessments, identifying and practicing guidance strategies, planning, and evaluating environments appropriate for the young child.
This course may be taken 1 time for credit.
Course classification: LDC

**ECE163B Practicum I ECE** 2 credits (6 lab hrs/wk)
Prerequisite(s): ( ECE150 ), or instructor consent
First in a sequence of Practicum courses. Taken concurrently with ECE 163 this practicum is designed to assist students in gaining experience working with young children in a laboratory or qualified preschool setting. Students gain experience identifying developmentally appropriate learning environments, completing observations and assessments, identifying and practicing guidance strategies, planning and evaluating environments appropriate for the young child.
This course may be taken 1 time for credit.
Course classification: CTE

**ECE170 Health and Safety Early Childhood** 3 credits (3 lec hrs/wk)
This course covers health/safety practices recommended for the early childhood field and includes information on common diseases, health, and nutrition. Completion of First Aid & CPR for Infants and Children, and Reporting Child Abuse and Neglect Certification are required to pass this course.
This course may be taken 1 time for credit.
Course classification: LDC

**ECE180 Internship: Early Childhood Ed** 1-9 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore early childhood education in workplace environments and career options.
This course may be taken 9 times for credit.
Course classification: LDC

**ECE209 Theory and Practice I Pre-K** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( ECE163 and ECE163B )
The second in a sequence of courses with a practicum co-requisite designed to assist students in gaining experience working with young children in a laboratory or qualified preschool setting. The various roles of the early childhood educator, assisting with various daily activities in a preschool program, observation/assessment, and guidance techniques are included in the course curriculum. The physical and social developmental domains are emphasized.
This course may be taken 1 time for credit.
Course classification: CTE

**ECE209B Practicum II Pre-K** 2 credits (6 lab hrs/wk)
Prerequisite(s): ( ECE163 and ECE163B ), or instructor consent
Second in a sequence of Practicum courses. Taken concurrently with ECE 209 this practicum is designed to assist students in gaining experience working with young children in a laboratory or qualified preschool setting The various roles of the early childhood educator, assisting with various daily activities in a preschool program, observation/assessment, and guidance techniques are included in the course curriculum. The physical and social domains are emphasized.
This course may be taken 1 time for credit.
Course classification: CTE

**ECE240 Lesson and Curriculum Planning** 3 credits (3 lec hrs/wk)
Students will be introduced to various approaches to planning early childhood curriculum to meet the whole child's development. The course will review existing curriculum models, and students will develop theme based curriculum, units, lesson plans, and assessments in math, science, and social studies for young children.
This course may be taken 1 time for credit.
Course classification: CTE

**ECE261 Student Teaching Pre-K** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( ECE102 ), or instructor consent
The fourth and final in a sequence of courses with a practicum co-requisite designed to assist students gaining experience working with young children in a laboratory or qualified preschool setting. Continued development of knowledge and skills in curriculum planning and implementation, observation/assessment if children in all four domains, and working with children and families are included. Self-assessment and evaluation are a primary focus.
This course may be taken 1 time for credit.
Course classification: CTE

**ECE261B Praticum IV Pre-K** 3 credits (9 lab hrs/wk)
Prerequisite(s): Instructor consent
Final in a sequence of Practicum courses. Taken concurrently with ECE 261 this practicum is designed to assist students in gaining experience working with young children in a laboratory or qualified preschool setting. Continued development of knowledge and skills in curriculum planning and implementation, observation/assessment if children in all four domains, and working with children and families are included. Self-assessment and evaluation are a primary focus.
This course may be taken 1 time for credit.
Course classification: CTE

**ECE262 Student Teaching Infants/Toddlers** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( ECE162 ), or instructor consent
Corequisite(s): ( ECE262B )
The fourth and final in a sequence of courses with a practicum co-requisite designed to assist students gaining experience working with young children in a laboratory or qualified infant/toddler setting. Continued development of knowledge and skills in curriculum planning and implementation, observation/assessment of children in all four domains, and working with children and families are included. Self-assessment and evaluation are a primary focus.
This course may be taken 1 time for credit.
Course classification: CTE

**ECE262B Practicum IV Infants/Toddlers** 3 credits (9 lab hrs/wk)
Prerequisite(s): ( ECE150 and ECE151 ), or instructor consent
The fourth and final pracitum designed to assist students gaining experience working with young children in a laboratory or qualified Infant/Toddler setting. Continued development of knowledge and skills in curriculum planning and implementation, observation/assessment if children in all four domains, and working with children and families are included. Self-assessment and evaluation are a primary focus included, along with a strong focus on higher level guidance techniques, working with families, and leading teaching teams.This course requires an Oregon State background check.
This course may be taken 1 time for credit.
Course classification: CTE

**ECE263 Env and Guidance in ECE Inf/Todd** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( ECE150 ), or instructor consent
Corequisite(s): ( ECE263B )
The first in a sequence of courses with a practicum co-requisite designed to assist students in gaining experience working with young children in a laboratory or qualified infant/toddler setting. Students gain experience identifying developmentally appropriate learning environments, completing observations and assessments, identifying and practicing guidance strategies. planning, and evaluating environments appropriate for the very young child.
This course may be taken 1 time for credit.
Course classification: CTE

**ECE263B Practicum I Infant/Toddler** 2 credits (6 lab hrs/wk)
Prerequisite(s): Instructor consent
Corequisite(s): ( ECE263 )
First in a sequence of Practicum courses. Taken concurrently with ECE 263 this practicum is designed to assist students in gaining experience working with young children in a laboratory or qualified preschool setting. Students gain experience identifying developmentally appropriate learning environments, completing observations and assessments, identifying and practicing guidance strategies, planning and evaluating environments appropriate for the young child.
This course may be taken 1 time for credit.
Course classification: CTE

**ECE280 CWE: Early Childhood Ed** 1-9 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore early childhood education in workplace environments and career options
This course may be taken 9 times for credit.
Course classification: LDC

**ECE280HV CWE: ECE Home Visitor** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow student to explore early childhood education home visiting workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

# ECONOMICS (ECON)

**ECON201Z Principles of Microeconomics** 4 credits
Examines how consumers and firms make choices when facing scarce resources, and how those choices are related to government policy and market outcomes, such as prices and output.
This course may be taken 1 time for credit.

**ECON202Z Principles of Macroeconomics** 4 credits
Prerequisite(s): ( MTH65 )
Examines the aggregate activity of a market economy, economic growth, inflation, unemployment, and the use of fiscal and monetary policy to address macroeconomic problems.
This course may be taken 1 time for credit.
Course classification: LDC

# EDUCATION (ED)

**ED101K Practicum: Grade K-3** 1 credit (3 lab hrs/wk)
Prerequisite(s): Instructor consent
A beginning practicum in Education, which provides students the opportunity to experience and explore their developing skills and knowledge pertaining to children in primary school (grades K-3), by spending time in a classroom where they can observe and interact with students during each volunteer experience. In addition, Practicum students will attend seminars during the term with education faculty.
This course may be taken 1 time for credit.
Course classification: LDC

**ED101P Practicum: Ed Pre-K** 1 credit (3 lab hrs/wk)
Prerequisite(s): Instructor consent
A beginning practicum in Education, which provides students the opportunity to experience and explore their developing skills and knowledge pertaining to children in preschool, by spending time in a classroom where they can observe and interact with students during each volunteer experience. In addition, Practicum students will attend seminars during the term with education faculty. Students pursuing an emphasis in early intervention and early childhood special education may request placement in an setting focused on early intervention services.
This course may be taken 1 time for credit.
Course classification: LDC

**ED101U Practicum: Grade 3-6** 1 credit (3 lab hrs/wk)
Prerequisite(s): Instructor consent
A beginning practicum in Education, which provides students the opportunity to experience and explore their developing skills and knowledge pertaining to children in upper elementary school (grades 3 - 6), by spending time in a classroom where they can observe and interact with students during each volunteer experience. In addition, Practicum students will attend seminars during the term with education faculty.
This course may be taken 1 time for credit.
Course classification: LDC

**ED111 Career and College Readiness** 2 credits
This course focuses on preparing non-traditional students to enter college, training programs and/or employment. It helps students achieve their education and career goals by offering a variety of opportunities for students to identify and reflect on their strengths and interests. Aspects of this course are integrating prior knowledge with new information, improving vocabulary, reading skills, charts and tables and locating information.
This course may be taken 1 time for credit.
Course classification: LDC

**ED121 Leadership Development** 3 credits (3 lec hrs/wk)
The course is designed to provide a basic understanding of leadership and group dynamics theory and to assist the student in developing a personal philosophy of leadership, an awareness of the moral and ethical responsibilities of leadership, and an awareness of one's own style of leadership. The course will integrate leadership models and theories with current leadership practices within a multicultural context.
This course may be taken 1 time for credit.
Course classification: LDC

**ED122 Introduction Residence Life** 1 credit (1 lec hrs/wk)
Course offered to students as an introduction to residence life, reviewing foundational residence life research, examining theoretical frameworks in community, group, and student development, developing practical skills, and orienting students to student housing. Given the foundational nature of the course, it will focus primarily on raising student awareness and basic skill development. The topics of the course will provide a collective understanding of the philosophical underpinnings of our work (why we do what we do) and the basis for future training.
This course may be taken 1 time for credit.
Course classification: LDC

**ED134 Children Who are Dual Lang Learners** 2 credits (2 lec hrs/wk)
This course focuses on the unique characteristics of teaching young children who are Dual Language Learners (DLL). Theory and best practice are studied. Emphasis is on developmentally appropriate curriculum and strategies to help dual language learners thrive in a classroom setting.
This course may be taken 1 time for credit.
Course classification: LDC

**ED135 Teaching Math to Young Children** 3 credits (3 lec hrs/wk)
Young children live in a world full of mathematics! This curriculum course focuses on the pre-math concepts and early math concepts important for young children (pre-kindergarten through second grade) to grasp so they can be successful in math throughout their lives. Positive approaches to the subject of mathematics will be emphasized.
This course may be taken 1 time for credit.
Course classification: LDC

**ED136 Tutor Certification** 1 credit (1 lec hrs/wk)
Prerequisite(s): Instructor consent
The purpose of this course is to provide an opportunity for students to learn and adopt methods that promote their success as tutors. Curriculum is guided by College Reading & Learning Association (CRLA) standards. Students completing this course will be CRLA Level I internationally certified tutors.
This course may be taken 1 time for credit.
Course classification: LDC

**ED137 Tutor Certification II** 1 credit (1 lec hrs/wk)
Prerequisite(s): Instructor consent
The purpose of this course is to provide an opportunity for students to learn and adopt methods that promote their success as tutors. Curriculum is guided by College Reading & Learning Association (CRLA) standards. Students completing this course will be CRLA Level II internationally certified tutors.
This course may be taken 1 time for credit.
Course classification: LDC

**ED138 Tutor Certification III** 1 credit (1 lec hrs/wk)
Prerequisite(s): Instructor consent
The purpose of this course is to provide an opportunity for students to learn and adopt methods that promote their success as tutors. Curriculum is guided by College Reading & Learning Association (CRLA) standards. Students completing this course will be CRLA Level III internationally certified tutors.
This course may be taken 1 time for credit.
Course classification: LDC

**ED154 Children's Literature** 4 credits (3 lec, 2 lec lab hrs/wk)
Prerequisite(s): ( WR121Z )
In this introductory literature course, students will gain broad exposure to quality children's literature and poetry; students will develop understanding of high quality literature selection; participate and develop engaging activities based on literature (e.g. literature circles, extension activities, reader's response log); practice reading literature/poetry aloud. This is a workshop course and will be taught through discussion of readings, teacher demonstrations, group discussions/activities, and individual work time. Participation in class activities is required.
This course may be taken 1 time for credit.
Course classification: LDC

**ED169 Overview of Student Special Needs** 3 credits (3 lec hrs/wk)
An introductory course covering categories of special needs and medical conditions that educators must be able to recognize and understand in order to plan, serve, and teach students effectively. Focuses on inclusion strategies and activities that enable educators to successfully provide an optimal educational environment for all students, including those with diverse abilities.
This course may be taken 1 time for credit.
Course classification: LDC

**ED180 Internship: Education & Tutoring** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

**ED201 Music Education for Elementary Ed** 3 credits (2 lec, 2 lec lab hrs/wk)
This course covers historical perspectives, elements of music, and effective practices in music education for the elementary classroom teacher. Explores the role and value of music in child development and learning. Multicultural perspectives are used to explore music making, music history, music appreciation, and music performance for elementary school children. Students will explore integrating music with the core curriculum.
This course may be taken 1 time for credit.
Course classification: LDC

**ED202 Art Education for Elementary Ed** 3 credits (2 lec, 2 lec lab hrs/wk)
This course covers historical perspectives, critical theories, and effective practices in art education for the elementary classroom teacher. It explores the role and value of art and creativity in child development and learning. Multicultural perspectives are used to explore artmaking, art history, aesthetics, art appreciation, and art performance for children ages 5-12. Students will explore integrating art with the core curriculum. Using art as an assessment tool will be discussed.
This course may be taken 1 time for credit.
Course classification: LDC

**ED216 Introduction To Education** 3 credits (3 lec hrs/wk)
This course introduces students to the historical, philosophical, and contemporary foundations of the American educational system. It fosters an understanding of the teaching and learning processes, as well as the legal, financial and ethical issues involved in today's schools. This course analyzes current trends and issues in education, and provides students with a framework to make decisions about entering into the teaching field. Through participation in this course, each student will evaluate their commitment to becoming a professional practitioner, prepared to be a reflective teacher who will be able to make informed decisions to improve and enhance the environment for children and youth.
This course may be taken 1 time for credit.
Course classification: LDC

**ED258 Multicultural Education** 3 credits (3 lec hrs/wk)
This course introduces anti-bias educational theory and multicultural approaches to teaching, with a focus on how to creatively develop relationships and learning environments that value diversity and help children respect each other as individuals. In this course, students will examine topics relevant to diversity among children, classrooms, and families. Students will be introduced to strategies and skills to creatively use activism to enhance work with parents, students, and community. Emphasis is on becoming culturally responsive when working with diverse families.
This course may be taken 1 time for credit.
Course classification: LDC

**ED258A Multicultural Education A** 1 credit (1 lec hrs/wk)
This course introduces anti-bias educational theory and multicultural approaches to teaching, with a focus on how to creatively develop relationships and learning environments that value diversity and help children respect each other as individuals. In this course, students will examine topics relevant to diversity among children, classrooms, and families. Students will be introduced to strategies and skills to creatively use activism to enhance work with parents, students, and community. Emphasis is on becoming culturally responsive when working with diverse families.
This course may be taken 1 time for credit.
Course classification: LDC

**ED258B Multicultural Education B** 1 credit (1 lec hrs/wk)
This course introduces anti-bias educational theory and multicultural approaches to teaching, with a focus on how to creatively develop relationships and learning environments that value diversity and help children respect each other as individuals. In this course, students will examine topics relevant to diversity among children, classrooms, and families. Students will be introduced to strategies and skills to creatively use activism to enhance work with parents, students, and community. Emphasis is on becoming culturally responsive when working with diverse families.
This course may be taken 1 time for credit.
Course classification: LDC

**ED258C Multicultural Education C** 1 credit (1 lec hrs/wk)
This course introduces anti-bias educational theory and multicultural approaches to teaching, with a focus on how to creatively develop relationships and learning environments that value diversity and help children respect each other as individuals. In this course, students will examine topics relevant to diversity among children, classrooms, and families. Students will be introduced to strategies and skills to creatively use activism to enhance work with parents, students, and community. Emphasis is on becoming culturally responsive when working with diverse families.
This course may be taken 1 time for credit.
Course classification: LDC

**ED280 CWE: Education & Tutoring** 1-12 credits
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore the variety of workplaces in which to apply that knowledge.
This course may be taken 12 times for credit.
Course classification: LDC

# EMERGENCY MEDICAL SERVICES (EMS)

**EMS151 Emergency Medical Technician Part A** 6 credits (4 lec, 4 lec lab hrs/wk)
Prerequisite(s): Instructor consent
Provides instruction at the level of Emergency Medical Technician. Includes all cognitive (knowledge) and psychomotor (practical) skills necessary to develop student skills in the recognition of signs and symptoms of illness and injury and proper emergency care procedures as outlined by the scope of practice established by the Oregon Medical Board. This course will also build personal skills in hands on capabilities, and a positive attitude towards the patients in their care. This is the first of a two-part course as set forth by the National EMS Education Standards. Current BLS CPR card that meets or exceeds the 2020 American Heart Association ECC guidelines or equivalent standards approved by the Oregon Health Authority.
This course may be taken 1 time for credit.
Course classification: CTE

**EMS152 Emergency Medical Technician Part B** 6 credits (4 lec, 4 lec lab hrs/wk)
Prerequisite(s): ( EMS151 ), or instructor consent
Provides instruction at the level of Emergency Medical Technician. Includes all cognitive (knowledge) and psychomotor (practical) skills necessary to develop student skills in the recognition of signs and symptoms of illness and injury and proper emergency care procedures as outlined by the scope of practice established by the Oregon Medical Board. This course will also build personal skills in hands on capabilities, and a positive attitude towards the patients in their care. This is the first of a two-part course as set forth by the National EMS Education Standards. Current BLS CPR card that meets or exceeds the 2020 American Heart Association ECC guidelines or equivalent standards approved by the Oregon Health Authority.
This course may be taken 1 time for credit.
Course classification: CTE

**EMS153 Accelerated EMT** 12 credits (8 lec, 8 lec lab hrs/wk)
Prerequisite(s): Instructor consent
This course is a combination of both EMS 151 and EMS152 and competes both courses in one term. Provides instruction at the level of Emergency Medical Technician. Includes all cognitive (knowledge) and psychomotor (practical) skills necessary to develop student skills in the recognition of signs and symptoms of illness and injury and proper emergency care procedures as outlined by the scope of practice established by the Oregon Medical Board. This course will also build personal skills in hands on capabilities, and a positive attitude towards the patients in their care. This is the first of a two-part course as set forth by the National EMS Education Standards. Current BLS CPR card that meets or exceeds the 2020 American Heart Association ECC guidelines or equivalent standards approved by the Oregon Health Authority.
This course may be taken 1 time for credit.
Course classification: CTE

**EMS169 EMS Rescue and Transportation** 3 credits (2 lec, 3 lab hrs/wk)
Prerequisite(s): Instructor consent
This training will provide a brief introduction into EMS/fire service rescue practices. Course topics will include but not limited to Auto Extrication, Rope Rescue, Water and Ice Rescue, Fire Ground Search and Rescue, Confined Space Rescue Situations. This course is designed to give students the skills necessary in order to begin rescue situations that are listed above. This is not an in-depth technical rescue course due to the limited time and limited degree of training resources available. In order to become certified in these fields there are other courses that must be attended. This course also covers the roles and responsibilities of the EMT in regards to transportation of the patient. This includes all aspects of ambulance operations and safety.
This course may be taken 1 time for credit.
Course classification: CTE

**EMS175 Introduction To Emergency Medical S** 3 credits (3 lec hrs/wk)
Prerequisite(s): Instructor consent
This preparatory course integrates comprehensive knowledge of Emergency Medical Services (EMS) systems, safety/well being of the paramedic, and medical/legal and ethical issues, which is intended to improve the health of EMS personnel, patients, and the community. This course will also cover the Incident Command System, different types of transport vehicles and radio systems utilized in EMS.
This course may be taken 1 time for credit.
Course classification: CTE

**EMS221 Paramedic Part I Lab** 3 credits (6 lec lab hrs/wk)
Prerequisite(s): Instructor consent
The first course of three courses reviews EMT level skills and introduces the advanced level paramedic skills. Students learn safe and effective skills performance and begin to integrate patient assessment, management and skills performance into simulation based practice.
This course may be taken 1 time for credit.
Course classification: CTE

**EMS222 Paramedic Part II Lab** 2 credits (4 lec lab hrs/wk)
Prerequisite(s): Instructor consent
The second course of three courses reviews EMT level skills and introduces the advanced level paramedic skills. Students learn safe and effective skills performance and begin to integrate patient assessment, management and skills performance into simulation based practice.
This course may be taken 1 time for credit.
Course classification: CTE

**EMS223 Paramedic Parrt III Lab** 2 credits (4 lec lab hrs/wk)
Prerequisite(s): Instructor consent
The third course of three courses reviews EMT level skills and introduces advanced level paramedic skills. Students learn safe and effective skills performance and begin to integrate patient assessment, management and skills performance into simulation based practice.
This course may be taken 1 time for credit.
Course classification: CTE

**EMS239 Paramedic Part II Clinical** 5 credits (15 lab hrs/wk)
Prerequisite(s): Instructor consent
The first course of two courses designed to track Paramedic student progress in the clinical setting. Students will practice EMT and paramedic level skills under the supervision of a clinical preceptor on live patients. Students begin to integrate patient assessment, management and skills performance into clinical based practice.
This course may be taken 1 time for credit.
Course classification: CTE

**EMS240 Paramedic Part III Clinical** 4 credits (12 lab hrs/wk)
Prerequisite(s): Instructor consent
The second course of two courses allowing students to practice advanced level paramedic skills in a controlled clinical environment. Students learn safe and effective skills performance and begin to integrate patient assessment, management and skills performance into clinical based practice.
This course may be taken 1 time for credit.
Course classification: CTE

**EMS241 Crisis Intervention & Communication** 3 credits (3 lec hrs/wk)
Promotes awareness of challenges met in the pre-hospital environment. Covers therapeutic communication, conflict resolution, verbal, electronic, and written documentation in the provision of EMS.
This course may be taken 1 time for credit.
Course classification: CTE

**EMS270 Paramedic Preparation** 3 credits (3 lec hrs/wk)
The Anatomy & Physiology for Paramedics course is specifically designed to introduce the fundamental terminology, structure and function of the human body. The main emphasis of this course will focus on the major organ systems and their association with health and disease. In addition, students will gain a basic understanding of pathophysiology and the disease process as it applies to pre-hospital emergency care. This course is specifically designed for students who are pursuing advanced level Paramedic or EMT Intermediate training.
This course may be taken 1 time for credit.
Course classification: CTE

**EMS280 Paramedic Field Experience** 3 credits (3 lab hrs/wk)
Prerequisite(s): Instructor consent
Corequisite(s): ( EMS152 )
The goal of this course is to develop a planned program of observation and practical experience with an organization providing emergency medical services at the Paramedic/Advanced Life Support (ALS) level. Students will perform the functions of an entry-level Paramedic under the guidance of a preceptor on an ALS ambulance as third rider and not a member of the basic crew configuration. Students will perform assessments and invasive procedures in a “real world” environment. Students will experience firsthand the skills and knowledge required to act in the capacity of a Paramedic. This course also continues the clinical internships as well.This is part four of a four-part series as set forth by the National EMS Education Standards.
This course may be taken 1 time for credit.
Course classification: CTE

**EMS291 Paramedic Clinical Capstone Practic** 7 credits (21 lab hrs/wk)
Prerequisite(s): Instructor consent
The goal of this course is to develop a planned program of observation and practical experience with an organization providing emergency medical services at the Paramedic/Advanced Life Support (ALS) level. Students will perform the functions of an entry-level Paramedic under the guidance of a preceptor on an ALS ambulance as third rider and not a member of the basic crew configuration. Students will perform assessments and invasive procedures in a “real world” environment. Students will experience firsthand the skills and knowledge required to act in the capacity of a Paramedic. This course also continues the clinical internships as well.This is part four of a four-part series as set forth by the National EMS Education Standards.
This course may be taken 1 time for credit.
Course classification: CTE

**EMS296 Paramedic Part I** 9 credits (10 lec hrs/wk)
Prerequisite(s): Instructor consent
The goal of the first of a three term series in Paramedic education is to begin fundamentals on patient assessment, airway management and ventilation, and general pharmacology (to include medication administration and dosing). Then focus on pathophysiology of the respiratory and cardiovascular systems to include identification and treatments of related emergencies.This is the first of a four-part course as set forth by the National EMS Education Standards.
This course may be taken 1 time for credit.
Course classification: CTE

**EMS297 Paramedic Part II** 5 credits (5 lec hrs/wk)
Prerequisite(s): ( EMS296 ), or instructor consent
The goal of EMS 297 is to focus on anaphylactic, toxicological, environmental, geriatric, pediatric, obstetric, gynecologic, neonatal, and endocrine emergencies; infectious diseases and trauma care. Applies didactic knowledge to campus-based laboratory skills practice and clinical patient care in the hospital setting.The student will also be introduced to assessments and treatments of live patients in a clinical setting. The student will perform skills acquired in classroom and laboratory settings under the guidance of a preceptor to achieve required competencies. This is the second of a four-part series as set forth by the National EMS Education Standards.
This course may be taken 1 time for credit.
Course classification: CTE

**EMS298 Paramedic Part III** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( EMS297 ), or instructor consent
The goals of EMS*298 will include a continuation of focus as seen in EMS*297. This term will include comprehensive skills and cognitive testing to assess the student’s retention of information that has been presented to them so far in the program. Students will continue assessments and treatments of "live" patients in a clinical setting as well. This is part three of a four-part series as set forth by the National EMS Education Standards.
This course may be taken 1 time for credit.
Course classification: CTE

# ENGINEERING (ENGR)

**ENGR111 Intro to Engineering** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( MTH111Z )
Topics include: survey of the engineering profession, educational and professional development, standards of practice; engineering information, calculations and analysis. Students will complete an engineering design project will be incorporated.
This course may be taken 1 time for credit.
Course classification: LDC

**ENGR112 Engineering Computation** 4 credits (3 lec, 3 lab hrs/wk)
Prerequisite(s): ( MTH111Z )
Introduction to engineering problem solving by means of programmed numerical methods. Exposure to fundamentals of computational systems, logical analysis, algorithm development, and program input/output design. A higher-level programming language will be presented and utilized.
This course may be taken 1 time for credit.
Course classification: LDC

**ENGR180 Internship: Engineering** 1-12 credits
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options
This course may be taken 12 times for credit.
Course classification: LDC

**ENGR201 Electrical Fundamentals I** 4 credits (3 lec, 3 lab hrs/wk)
Prerequisite(s): ( MTH251Z )
Topics include: circuit variables and elements, simple resistive circuits, techniques of circuit analysis, applications of operational amplifiers, inductors, capacitors, and first-order circuits.
This course may be taken 1 time for credit.
Course classification: LDC

**ENGR202 Electrical Fundamentals II** 4 credits (3 lec, 3 lab hrs/wk)
Prerequisite(s): ( ENGR201 )
Topics include: circuit variables and elements, simple resistive circuits, techniques of circuit analysis, applications of operational amplifiers, inductors, capacitors, and first-order circuits.
This course may be taken 1 time for credit.
Course classification: LDC

**ENGR203 Electrical Fundamentals III** 4 credits (3 lec, 3 lab hrs/wk)
Prerequisite(s): ( ENGR202 )
Covers transient circuit analysis-RL, RC, RLC. Introduces LaPlace Transform and its use in circuit analysis, the transfer function, Bode diagram and two port networks.
This course may be taken 1 time for credit.
Course classification: LDC

**ENGR211 Statics** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( MTH252Z )
Analysis of forces induced in structures and machines by various types of loading in static equilibrium.
This course may be taken 1 time for credit.
Course classification: LDC

**ENGR212 Dynamics** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( ENGR211 and MTH252Z )
Kinematics, Newton's laws of motion, and work-energy and impulse-momentum relationships applied to engineering systems.
This course may be taken 1 time for credit.
Course classification: LDC

**ENGR213 Strength of Materials** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( ENGR211 )
Properties of structural materials; analysis of stress and deformation in axially loaded members, circular shafts, and beams, and in statically indeterminate systems containing these components.
This course may be taken 1 time for credit.
Course classification: LDC

# ENGLISH (ENG)

**ENG104Z Introduction To Fiction** 4 credits (4 lec hrs/wk)
The study of fiction invites us to enter imaginative narratives and confront the challenges of being human. English 104z provides opportunities for the appreciation of fiction, including deeper awareness of craft and insight into how reading fiction can lead to self-enrichment. Students read a variety of types of fiction, from diverse perspectives and eras, and develop their skills in discussion, literary analysis, and critical thinking.
This course may be taken 1 time for credit.
Course classification: LDC

**ENG105Z Introduction To Drama** 4 credits (4 lec hrs/wk)
The study of plays exposes us to texts with the power to shock, inspire, enlighten, and delight; this course in drama can be an empowering and transformative journey toward keener engagement with the world, local community, and your intended path. English 105z provides opportunities for the appreciation of drama, including deeper awareness of craft and insight into how reading plays can lead to self-enrichment. Students read a variety of types of drama, from diverse perspectives and eras, and develop their skills in discussion, literary analysis, and critical thinking.
This course may be taken 1 time for credit.
Course classification: LDC

**ENG106Z Introduction To Poetry** 4 credits
The study of poetry invites us to delve into the biggest questions about life and culture alongside the seemingly smallest issues of words and sounds. English 106z provides opportunities for the appreciation of poetry, including deeper awareness of craft and insight into how reading poetry can lead to self-enrichment. Students read a variety of types of poetry and poetic forms, from diverse perspectives and eras, and develop their skills in discussion, literary analysis, and critical thinking.
This course may be taken 1 time for credit.
Course classification: LDC

**ENG107 World Literature** 3 credits (3 lec hrs/wk)
This course introduces the students to key literary works and authors of world literature from Ancient and Classical foundations to the Middle Ages. Students should consider taking History of Western Civilization concurrently.
This course may be taken 1 time for credit.
Course classification: LDC

**ENG108 World Literature** 3 credits (3 lec hrs/wk)
This course introduces the students to key literary works and authors of world literature from late Middle Ages and Renaissance to the Enlightenment. Students should consider taking History of Western Civilization concurrently.
This course may be taken 1 time for credit.
Course classification: LDC

**ENG109 World Literature** 3 credits (3 lec hrs/wk)
This course introduces the students to key literary works and authors of world literature from the Enlightenment to modern and contemporary writings. Students should consider taking History of Western Civilization concurrently.
This course may be taken 1 time for credit.
Course classification: LDC

**ENG145 Shakespeare in Performance** 1 credit (11 lec hrs/wk)
trip to the Oregon Shakespeare Festival to see a play in performance. The course will consist of a discussion of the text, a viewing of the play, and a discussion of the performance, including themes and interpretations.
This course may be taken 1 time for credit.
Course classification: LDC

**ENG180 Internship: English** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

**ENG201 Shakespeare** 3 credits (3 lec hrs/wk)
This course is an introduction to Shakespeare's early dramatic literature with an emphasis on the timelessness of his ideas and themes, the formal demands of drama, and the development of the artist. The plays for this term are drawn from early histories and comedies.
This course may be taken 1 time for credit.
Course classification: LDC

**ENG204 Survey of English Literature** 3 credits (3 lec hrs/wk)
This course discusses the literary documents and authors of the British Isles from the Anglo-Saxton beginnings through the sixteenth century. It will also treat the surviving Celtic materials and their influence on British literature. The study will focus on, but not necessarily be limited to, characteristic works and major figures of the period.
This course may be taken 1 time for credit.
Course classification: LDC

**ENG205 Survey of English Literature** 3 credits (3 lec hrs/wk)
This course discusses the literary documents and authors of the British Isles from the sixteenth through the early nineteenth centuries. The study will focus on characteristic works and major figures on the period.
This course may be taken 1 time for credit.
Course classification: LDC

**ENG206 Survey of English Literature** 3 credits (3 lec hrs/wk)
This course discusses the literary documents and authors of the British Isles of the nineteenth and twentieth centuries and the historic context.
This course may be taken 1 time for credit.
Course classification: LDC

**ENG253 Survey of American Literature** 3 credits (3 lec hrs/wk)
Introduction to the development of American literature from colonial beginnings through the early romantic period. Special attention is given to helping students develop a sense of what is "American" in literature and thought.
This course may be taken 1 time for credit.
Course classification: LDC

**ENG254 Survey of American Literature** 3 credits (3 lec hrs/wk)
Introduction to the development of American Literature in the middle and latter parts of the nineteenth century (late romanticism, realism, and naturalism). Special attention is given to helping students develop a sense of what is "American" in literature and thought.
This course may be taken 1 time for credit.
Course classification: LDC

**ENG255 Survey of American Literature** 3 credits (3 lec hrs/wk)
Introduction to the development of American Literature of the twentieth century. Special attention is given to helping students develop a sense of what is "American" in literature and thought.
This course may be taken 1 time for credit.
Course classification: LDC

**ENG260 Intr Women Writers** 3 credits (3 lec hrs/wk)
This course is designed to 1) introduce students to some important authors and works; 2) present these works in an historical and culturally specific context and link context to changes in a genre; 3) encourage students to trace themes of race class and gender in literature by women; 4)guide students discussing self-identify and the creative process. Fulfills cultural diversity/multi-cultural requirement.
This course may be taken 1 time for credit.
Course classification: LDC

**ENG262 Worlds and Writings J.R. R. Tolkien** 3 credits (3 lec hrs/wk)
Examines and evaluates the works of Tolkien, Tolkien's role in the creation of the genre of fantasy literature, and the ways in which Tolkien's works reflect 20th century concerns about power and the environment.
This course may be taken 1 time for credit.
Course classification: LDC

**ENG264 The Vampire in Film: The Undead As Cinematic Expression of the Living** 3 credits
Since the 1922 premiere of F.W. Murnau's Nosferatu, vampire films have been a staple of cinema. Vampire films are more than gory blockbusters created to scare people as they eat popcorn. Cinema featuring the undead function as reflections of society's fears, tabboos, and issues, turning a critical lens on the living as critique and commentary. Vampire films have also been at the forefront of cinema more broadly, harnessing technological innovations and popular trends in their narratives. This course will introduce students to the folkloric origins of the vampire before turning briefly to 19th c. literary influences. From there, students will examine a century's worth of key vampire films, engaging in critical film analysis while conducting their own original research. Students in this course will be able to see how our monsters are more than just things that go bump in the night -- they are us.
This course may be taken 1 time for credit.
Course classification: LDC

**ENG280 CWE: English** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options. This is a variable credit course, ranging from 1-12 credits and a variable hour lab ranging from 33-396 hours.
This course may be taken 12 times for credit.
Course classification: LDC

# ENGLISH AS A SECOND LANGUAGE (ESL)

**ESL60 ESL: Academic Literacy** 5 credits (5 lec hrs/wk)
ESL Academic Literacy focuses on improving sentence construction and variety as well as vocabulary, paragraph and essay development. All reading and writing practice is done for the purpose of preparing non-native English speakers for success in lower division college-level courses.
This course may be taken 1 time for credit.
Course classification: LDC

# ENVIRONMENTAL TECHNOLOGY (ENV)

**ENV110 Introduction Environmental Science** 3 credits (3 lec hrs/wk)
This course integrates the physical, life and social sciences under an overarching theme of sustainability to examine environmental issues and solutions. It incorporates a diverse set of topics including ecology, biodiversity, urban and regional planning, air and water pollution, energy supply and consumption, water resources, food production, solid waste, toxic substances, and human population. Critical thinking is promoted through student analysis and interpretation of environmental data and trends, and through student application of knowledge to new situations.
This course may be taken 1 time for credit.
Course classification: LDC

**ENV180 Internship: Environmental Tech** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options
This course may be taken 12 times for credit.
Course classification: LDC

**ENV235 Introduction to Soil Science** 4 credits (3 lec, 3 lab hrs/wk)
In this course, students learn about the chemical, physical, and biological nature of soils; the factors controlling soil development; what a soil name can tell about the environment; and, how land management decisions affect soil quality and its sustainability. Topics will include: The importance of soils, what soil is, how soil forms, how soils are described, physical properties of soils, soil water, soil chemistry, soil biology, and soil sustainability.
This course may be taken 1 time for credit.
Course classification: LDC

# FIRE SCIENCE TECHNOLOGY (FS)

**FS100 Principles of Emergency Services** 4 credits (4 lec hrs/wk)
This course provides an overview to fire protection and emergency services; career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics; life safety initiatives.
This course may be taken 1 time for credit.
Course classification: CTE

**FS105 Firefighter Fundamentals I** 2 credits (4 lec lab hrs/wk)
The purpose of this course is to teach the student how to be a professional in the fire service. Topics include fire service culture, regulations, expected behaviors, dress and appearance, among others. Students will be introduced to a professional network and given an opportunity to serve a community.
This course may be taken 1 time for credit.
Course classification: CTE

**FS110 Firefighter Fundamentals II** 2 credits (4 lec lab hrs/wk)
The purpose of this course is to teach the student how to be a professional in the fire service. Topics include tools and equipment, certification, resume development, interview skills, among others. Students will be introduced to a professional network and given an opportunity to serve a community.
This course may be taken 1 time for credit.
Course classification: CTE

**FS115 Firefighter Fundamentals III** 2 credits (4 lec lab hrs/wk)
The purpose of this course is to teach the student how to be a professional in the fire service. Topics include fire apparatus, maintenance, ongoing training, professional development, among others. Students will be introduced to a professional network and given an opportunity to serve a community.
This course may be taken 1 time for credit.
Course classification: CTE

**FS120 Building Const Related to Fire Svc** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( FS100 )
This course provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies.
This course may be taken 1 time for credit.
Course classification: CTE

**FS121 Fire Behavior and Combustion** 3 credits (3 lec hrs/wk)
This course explores the theories and fundamentals of how and why fires start, spread, and are controlled.
This course may be taken 1 time for credit.
Course classification: CTE

**FS123 Structural Firefighter I** 4 credits (8 lec lab hrs/wk)
This course provides students with the knowledge, skills, and abilities required for Firefighter I (structural firefighting).
This course may be taken 1 time for credit.
Course classification: CTE

**FS125 Principles of Fire and Emergency S** 4 credits (4 lec hrs/wk)
This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services.
This course may be taken 1 time for credit.
Course classification: CTE

**FS127 Structural Firefighter II** 2 credits (4 lec lab hrs/wk)
This course provides students with the knowledge and skills required for the Firefighter II level (structural firefighting).
This course may be taken 1 time for credit.
Course classification: CTE

**FS130 Fire Apparatus Driver/Operator** 1 credit (2 lec lab hrs/wk)
This course provides students with the knowledge and skills required to safely drive/operate a fire apparatus.
This course may be taken 1 time for credit.
Course classification: CTE

**FS131 Wildland Firefighter Type 2** 3 credits (1 lec, 4 lec lab hrs/wk)
This course provides students with the knowledge and skills required to gain an entry level position in the fire service (wildland).
This course may be taken 1 time for credit.
Course classification: CTE

**FS133 S-215 Fire Operations in the Wildla** 2 credits (2 lec hrs/wk)
The purpose of this course is to educate students to operate safely and effectively in a wildland/urban interface incident by using situation awareness, performing structure triage, using pre-planning tools, having a basic understanding of fire behavior, and using strategy and tactics unique to the wildland/urban interface environment (wildland).
This course may be taken 1 time for credit.
Course classification: CTE

**FS135 Fire Apparatus Aerial Operator** 2 credits (1 lec, 2 lec lab hrs/wk)
This course provides students with the knowledge and skills required to safely drive/operate a fire apparatus equipped with an aerial device.
This course may be taken 1 time for credit.
Course classification: CTE

**FS137 S-131 Wildland Firefighter Type 1** 1 credit (1 lec hrs/wk)
This course provides students with the knowledge and skills required to meet the training needs of the Firefighter Type 1 (wildland).
This course may be taken 1 time for credit.
Course classification: CTE

**FS139 S-290 Intermediate Wildland Fire Be** 3 credits (3 lec hrs/wk)
This course provides students with wildland fire behavior knowledge applicable for safe and effective wildland fire management activities (wildfires, fire use, and prescribed fire).
This course may be taken 1 time for credit.
Course classification: CTE

**FS141 S-230 Crew Boss (Single Resource)** 3 credits (3 lec hrs/wk)
This course provides students with knowledge and skills in the performance of duties associated with the single resource boss position from initial dispatch through demobilization to the home unit (wildland)
This course may be taken 1 time for credit.
Course classification: CTE

**FS143 S-212 Wildland Fire Chain Saws** 2 credits (1 lec, 2 lec lab hrs/wk)
This course provides students with an introduction to the function, maintenance, and use of internal combustion engine-powered chain saws and their tactical wildland fire application.
This course may be taken 1 time for credit.
Course classification: CTE

**FS180 Internship: Fire Science** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

**FS200 Strategy and Tactics** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( FS100 )
This course provides the principles of fire ground control through utilization of personnel, equipment, and extinguishing agents.
This course may be taken 1 time for credit.
Course classification: CTE

**FS202N Field Training and Evaluation Progr** 2 credits (2 lec hrs/wk)
The Field Training & Evaluation Program (FTEP) course is designed to provide formal training and practical information for personnel who will become Field Training Officers in their police department. The course, through reference to the "San Jose Model", will consider specific teaching methods applicable to adult learners, performance evaluations using standardized rating procedures, remedial training techniques, and legal issues in recruit training, as well as ethics, leadership, communication, evaluation, retention and dismissal. The instructors for the program are seasoned law enforcement practitioners with advanced academic experiences.
This course may be taken 1 time for credit.
Course classification: CTE

**FS205 Fire Prevention** 3 credits (3 lec hrs/wk)
This course provides fundamental knowledge relating to the field of fire prevention. Topics include: history and philosophy of fire prevention; organization and operation of a fire prevention bureau; use and application of codes and standards; plans review; fire inspections; fire and life safety education; and fire investigation.
This course may be taken 1 time for credit.
Course classification: CTE

**FS210 Hazardous Materials for First Respo** 2 credits (2 lec hrs/wk)
This course provides students with the knowledge and skills required to respond to and operate at hazardous materials incidents.
This course may be taken 1 time for credit.
Course classification: CTE

**FS215 Legal Aspects of Emergency Services** 2 credits (2 lec hrs/wk)
This course will address the federal, state, and local laws that regulate emergency services and include a review of national standards, regulations, and consensus standards.
This course may be taken 1 time for credit.
Course classification: CTE

**FS220 Fire Protection Systems** 3 credits (3 lec hrs/wk)
This course provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers.
This course may be taken 1 time for credit.
Course classification: CTE

**FS222 Fire Instructor I** 3 credits (3 lec hrs/wk)
This course provides students with the knowledge and skills required to instruct in the fire service.
This course may be taken 1 time for credit.
Course classification: CTE

**FS223 Fire Instructor II** 3 credits (3 lec lab hrs/wk)
Prerequisite(s): ( FS222 )
This course provides students with the knowledge and skills required to manage a training program, develop curriculum, and deliver instruction in the fire service.
This course may be taken 1 time for credit.
Course classification: CTE

**FS225 Prin of Fire & Emerg Service Admin** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( FS100 )
This course introduces the student to the organization and management of a fire and emergency services department and the relationship of government agencies to the fire service. Emphasis is placed on fire and emergency service, ethics, and leadership from the perspective of the company officer.
This course may be taken 1 time for credit.
Course classification: CTE

**FS230 Fire Apparatus Pumper/Operator** 2 credits (4 lec lab hrs/wk)
This course provides students with the knowledge and skills required to safely drive/operate a fire apparatus equipped with a fire pump.
This course may be taken 1 time for credit.
Course classification: CTE

**FS231 Fire Protection Hydraulics and Wate** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( MTH65 )
This course provides a foundation of theoretical knowledge in order to understand the principles of the use of water in fire protection and to apply hydraulic principles to analyze and to solve water supply problems.
This course may be taken 1 time for credit.
Course classification: CTE

**FS232 Occupational Safety and Health ES** 3 credits (3 lec hrs/wk)
This course introduces the basic concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk and hazard evaluation and control procedures for emergency service organizations.
This course may be taken 1 time for credit.
Course classification: CTE

**FS246 Topics in Wildland Fire** 3 credits (3 lec hrs/wk)
Wildland fire is having increasing impacts on human communities and ecoregions in western north America and beyond given changes in climatic patterns and land use. Issues include both unwanted wildfire losses and the historical natural role fire plays in forest and rangeland ecology. Interwoven with these issues are increasing dilemmas surrounding fire at the urban and rural interfaces, as well as the use of fire as a land management tool. The overarching goal of this course is to provide a broad understanding of wildland fire science as it impacts society, with an emphasis on critical thinking about its changing ecological and social roles.
This course may be taken 1 time for credit.
Course classification: LDC

**FS280 CWE: Fire Science** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore a variety of workplaces in which to apply that knowledge.
This course may be taken 12 times for credit.
Course classification: LDC

# FOOD AND NUTRITION (FN)

**FN155 Nutrition in Early Childhood Programs** 1 credit (1 lec hrs/wk)
This course covers nutrition aspects related to the early childhood years (birth to eight years) and includes information about serving healthy foods for child care. Information on teaching nutrition activity in developmentally appropriate ways are also covered in the course.
This course may be taken 1 time for credit.
Course classification: LDC

**FN180 Internship: Nutrition** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore the variety of workplaces in which to apply that knowledge.
This course may be taken 12 times for credit.
Course classification: LDC

**FN225 Nutrition** 4 credits (4 lec hrs/wk)
This course focuses on the study of basic nutrition principles and newer scientific investigations of optimal diet for health. A review of present day nutrition problems is included. The course is valuable for home economic, nursing, physical education, food service, dental hygiene and childhood education majors.
This course may be taken 1 time for credit.
Course classification: LDC

**FN280 CWE: Food and Nutrition** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
This course focuses on the study of basic nutrition principles and newer scientific investigations of optimal diet for health. A review of present day nutrition problems is included. The course is valuable for home economic, nursing, physical education, food service, dental hygiene and childhood education majors.
This course may be taken 12 times for credit.
Course classification: LDC

# FOREST RESOURCES TECHNOLOGY (F)

**F111 Introduction to Forestry** 3 credits (3 lec hrs/wk)
This course will cover a broad overview of basic forestry principle; a review of the history of forestry balanced with a discussion of current forestry management programs, laws, and practices implemented in the United States today.
This course may be taken 1 time for credit.
Course classification: LDC

**F180 Internship: Forestry** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

**F222A Elementary Forest Surveying** 4 credits (3 lec, 3 lab hrs/wk)
An introduction to the theory and practice of forest surveying methods and measurements as applied to the specifics of forestry problems and their solutions. The course provides fundamental instruction for surveying and field measurements.
This course may be taken 1 time for credit.
Course classification: LDC

**F223 Field Measurements** 3 credits (1 lec, 4 lec lab hrs/wk)
This course is designed to introduce students to the basic concepts of forest and natural resource measurements. Emphasis will be placed on the use of technical field and forestry equipment to collect and analyze forest and other natural resource data, including but not limited to logs, trees, plants, wildlife, and forest-level attributes. To manage forest resources sustainably, practitioners must know the quality and quantity of resources and their change over time. Students will use tools to collect data, analyze data, and see how that data gets used in real management decisions. Although the general topic of the course focuses on quantitative analysis of forest vegetation, time and effort will be spent measuring other forest resources (e.g., wildlife habitat resources and riparian zones). Moreover, the theory and methodology discussed in this course can be applied to other renewable resources.
This course may be taken 1 time for credit.
Course classification: CTE

**F241 Dendrology** 5 credits (4 lec, 3 lab hrs/wk)
Learn to identify the principal forest trees of North America, and the principal trees and shrubs of the Pacific Northwest, including the ranges over which they grow, important ecological characteristics, and principal uses. Also learn about forested regions of the world, and the structure and function of forest plants.
This course may be taken 1 time for credit.
Course classification: LDC

**F250 Forest Biology** 4 credits (3 lec, 3 lab hrs/wk)
This course is designed to introduce students to the basic concepts of forest and natural resource biology concepts. It will focus on forest plants and animals, communities, and ecosystems, along with their functioning and their relationship to resource management. Forest Biology is a basic course that provides a broad foundation in biology that is relevant to many natural resource issues. The course will examine biology at multiple levels of organization, from molecules to the globe.
This course may be taken 1 time for credit.
Course classification: LDC

**F251 Recreation Resource Management** 4 credits (3 lec, 3 lab hrs/wk)
Exposes students to the theories and practices involved in managing our natural resources for public use. Resource management, visitor management, and service management components will be studies and analyzed. An emphasis will be put on how visitors impact natural resources, and the tools available to resource managers to control and mitigate those impacts using planning and management techniques. The lecture portion of the class will involve lecture and group discussions. The lab will include field trips to public recreation sites and presentations from recreation resource managers and planners.
This course may be taken 1 time for credit.
Course classification: LDC

**F280 CWE: Forestry** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore the variety of workplaces in which to apply that knowledge.
This course may be taken 12 times for credit.
Course classification: LDC

# GENERAL SCIENCE (GS)

**GS104 Physical Science** 4 credits (3 lec, 3 lab hrs/wk)
Prerequisite(s): ( MTH65 )
This course provides an overview of the essential ideas in physics with an emphasis on the laws of motion, work, energy, heat and temperature.
This course may be taken 1 time for credit.
Course classification: LDC

**GS105 Physical Science** 4 credits (3 lec, 3 lab hrs/wk)
Prerequisite(s): ( MTH65 )
This course is an introduction to chemistry for non-science majors. The course material covers atomic structure and theory, compounds, chemical bonds, states of mater, solution chemistry, chemical reactions and selected topics in organic and biochemistry.
This course may be taken 1 time for credit.
Course classification: LDC

**GS106 Introduction to Earth Science** 4 credits (3 lec, 3 lab hrs/wk)
Introduces various branches of earth science. Includes basic terminology, fundamental processes and respective interrelationships. Discusses rock and mineral formation, plate tectonic theory, volcanism, earthquakes, surficial processes, and geologic time. Includes laboratory component. Credit cannot be earned for this course and G221.
This course may be taken 1 time for credit.
Course classification: LDC

**GS107 Astronomy** 4 credits (3 lec, 3 lab hrs/wk)
Prerequisite(s): ( MTH65 )
A descriptive treatment of the solar system, stars, stellar,evolution, galaxies and cosmology. The results of current space missions are emphasized. Recent discoveries in stellar astronomy will be discussed.
This course may be taken 1 time for credit.
Course classification: LDC

**GS108 Oceanography** 4 credits (3 lec, 3 lab hrs/wk)
Prerequisite(s): ( MTH65 ) or ( WR90R )
Studies the ocean and its phenomena. Discusses the chemical, biological, geological, and physical nature of the oceans, the ocean floor and shorelines. The course also includes sedimentation, volcanism, plate tectonics, and other geological aspects of the oceans.
This course may be taken 1 time for credit.
Course classification: LDC

**GS180 Internship: General Science** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical worksite exposure to applied science, which provides students an opportunity to explore potential career paths in science while gaining practical experience in applying classroom science theory.
This course may be taken 12 times for credit.
Course classification: LDC

**GS280 CWE: General Science** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical worksite exposure to applied science, which provides students an opportunity to explore potential career paths in science while gaining practical experience in applying classroom science theory.
This course may be taken 12 times for credit.
Course classification: LDC

# GEOGRAPHY (GEOG)

**GEOG105 Cultural Geography** 3 credits (3 lec hrs/wk)
This course examines the nexus of human and environmental interaction. We will consider issues such as the origins of domestication of animals and plants for food, economic development and underdevelopment, environmental racism, and the geographic origins of cultural differences.
This course may be taken 1 time for credit.
Course classification: LDC

**GEOG180 Internship: Geography** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical worksite exposure to applied science, which provides students an opportunity to explore potential career paths in science while gaining practical experience in applying classroom science theory.
This course may be taken 12 times for credit.
Course classification: LDC

**GEOG209 Physical Geography Weather/Climate** 4 credits (4 lec hrs/wk)
Examines the processes of the atmosphere, the distribution and character of climate types, climate change, and humankind as a modifier of climate.
This course may be taken 1 time for credit.
Course classification: LDC

**GEOG265 Intro to Geographical Info Systems** 4 credits (3 lec, 3 lab hrs/wk)
An introduction to the appropriate use and potential applications of geographic information systems (GIS) and related technologies (GPS and remote sensing) in forest management, operations planning, and problem solving. Students are presented with lectures and exercises that cover a wide range of GIS and GIS-related topics and issues including spatial database creation, structure, analysis, and modeling. Class meetings include a lectures and hands-on GIS exercises in a computer lab. Students are required to complete weekly lab assignments and a final project.
This course may be taken 1 time for credit.
Course classification: LDC

**GEOG270 Adv Topics in Geog Info Systems** 3 credits (2 lec, 3 lab hrs/wk)
Prerequisite(s): ( GEOG265 )
An advanced course in geographic information science. This class builds upon techniques learned in GEOG265 Introduction to Geographic Information Systems (GIS) by exposing students to more advanced methods in developing and utilizing GIS data.
This course may be taken 1 time for credit.
Course classification: LDC

**GEOG275 Fundamentals of Cartography** 3 credits (2 lec, 3 lab hrs/wk)
Prerequisite(s): ( GEOG270 )
A general introduction to cartography as an art and a science. The course teaches fundamental principles of map design and construction. Students will become familiar with the cartographic process, especially as they apply basic mapping concepts such as scale, typography, map projections, generalization, symbols, color schemes, and data visualization. Students will use cartographic tools available in Esri software.
This course may be taken 1 time for credit.
Course classification: LDC

**GEOG277 GIS Capstone** 1 credit
Prerequisite(s): ( GEOG275 )
An independent GIS project carried out in concert with industry professionals.
This course may be taken 1 time for credit.
Course classification: LDC

**GEOG280 CWE: Geography** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical worksite exposure to applied science, which provides students an opportunity to explore potential career paths in science while gaining practical experience in applying classroom science theory.
This course may be taken 12 times for credit.
Course classification: LDC

# GEOLOGY (G)

**G145AG Regional Geology Agness Field Trip** 1 credit (1 lec hrs/wk)
A lecture in the field to highlight the significant geologic features of the coast range up and over the Agness Divide and along the Rogue River. The course consists of a field trip arranged to illustrate the geologic setting, stratigraphy and structure, topography, age and origin, significant events through geologic time, and special features unique to the region. Also offered as G025AG for no credit or grade.
This course may be taken 1 time for credit.
Course classification: LDC

**G145CA Regional Geology Cape Arago Field Trip** 1 credit (1 lec hrs/wk)
A lecture in the field to highlight the significant geologic features along the southern Oregon Coast with stops focused between Cape Arago and Bandon. The course consists of a field trip arranged to illustrate the geologic setting, stratigraphy and structure, topography, age and origin, significant events through geologic time, and special features unique to the region. Also offered as G025CA for no credit or grade.
This course may be taken 1 time for credit.
Course classification: LDC

**G145CB Regional Geology Cape Blanco Field Trip** 1 credit (1 lec hrs/wk)
A lecture in the field to highlight the significant geologic features along the southern Oregon Coast with stops focused between Cape Blanco and Brookings. The course consists of a field trip arranged to illustrate the geologic setting, stratigraphy and structure, topography, age and origin, significant events through geologic time, and special features unique to the region. Also offered as G025CB for no credit or grade.
This course may be taken 1 time for credit.
Course classification: LDC

**G145CK Regional Geology Cape Kiwanda Field Trip** 1 credit (1 lec hrs/wk)
A lecture in the field to highlight the significant geologic features along the Oregon Coast with stops focused between Florence and Cape Kiwanda/Pacific City. The course consists of a field trip arranged to illustrate the geologic setting, stratigraphy and structure, topography, age and origin, significant events through geologic time, and special features such as the submerged forest at Neskowin unique to the region. Also offered as G025CK for no credit or grade.
This course may be taken 1 time for credit.
Course classification: LDC

**G145CL Regional Geology Crater Lake Field Trip** 1 credit (1 lec hrs/wk)
A lecture in the field to highlight the significant geologic features of the coast range and Cascades with a focus on stops in and around Crater Lake National Park. The course consists of a field trip arranged to illustrate the geologic setting, stratigraphy and structure, topography, age and origin, significant events through geologic time, and special features unique to the region. Also offered as G025CL for no credit or grade.
This course may be taken 1 time for credit.
Course classification: LDC

**G145DB Regional Geology Depoe Bay Field Trip** 1 credit (1 lec hrs/wk)
A lecture in the field to highlight the significant geologic features along the Oregon Coast with stops focused between Florence and Depoe Bay. The course consists of a field trip arranged to illustrate the geologic setting, stratigraphy and structure, topography, age and origin, significant events through geologic time, and special features unique to the region. Also offered as G025DB for no credit or grade.
This course may be taken 1 time for credit.
Course classification: LDC

**G145DU Regional Geology Dunes Field Trip** 1 credit (1 lec hrs/wk)
A lecture in the field to highlight the significant geologic features along the Oregon Coast with stops focused between Coos Bay and Yachats. The course consists of a field trip arranged to illustrate the geologic setting, stratigraphy and structure, topography, age and origin, significant events through geologic time, and special features unique to the region. Also offered as G025DU for no credit or grade.
This course may be taken 1 time for credit.
Course classification: LDC

**G145LB Regional Geology Lava Beds Field Trip** 2 credits (1 lec, 2 lec lab hrs/wk)
A lecture in the field to highlight the significant geologic, cultural and historic features focusing on the area in and around Lava Beds National Monument in northern California. The course consists of a 3 day camping field trip arranged to illustrate the geologic setting, stratigraphy and structure, topography, age and origin, significant events through geologic time, and special features unique to the region associated with Modoc prehistory and oral traditions, the Modoc War, CCC camp, WWII history, Japanese Internment Camp in Newell, water rights issues, etc. This course is also offered as G025LB for no credit or grade.
This course may be taken 1 time for credit.
Course classification: LDC

**G180 Internship: Geology** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options
This course may be taken 12 times for credit.
Course classification: LDC

**G201 Physical Geology I** 4 credits (3 lec, 3 lab hrs/wk)
Corequisite(s): ( G025AG ) or ( G025CB ) or ( G025DB ) or ( G025DU ) or ( G145AG ) or ( G145CB ) or ( G145DB ) or ( G145DU )
A study of the nature of the earth, earth materials and geologic structures, fundamental geologic principles, and physical processes acting within and upon the earth. Laboratory exercises and field trips required.
This course may be taken 1 time for credit.
Course classification: LDC

**G202 Physical Geology II** 4 credits (3 lec, 3 lab hrs/wk)
Corequisite(s): ( G025CB ) or ( G025DU ) or ( G145CB ) or ( G145DU )
Studies fundamental geologic principles and the natural processes acting within and upon the earth. Examines internal and superficial processes, geologic time and the inter-relationships of people and their natural environment. Laboratory exercises and field trips are required.
This course may be taken 1 time for credit.
Course classification: LDC

**G203 Historical Geology** 4 credits (3 lec, 3 lab hrs/wk)
Covers the physical and historical nature of the earth through time. Includes principles of historical geology, geologic time, the sequence of tectonic changes stratigraphic relations paleogeographic environments and major events through time and the progression of life through time. Laboratory exercises and field trips are required.
This course may be taken 1 time for credit.
Course classification: LDC

**G221 General Geology** 3 credits (3 lec hrs/wk)
Introduces the physical aspects of geology. Includes rocks and mineral formation and identification, volcanoes, earthquakes, plate tectonics and glaciation. Also includes other gradational processes, other aspects of volcanism, geologic time, a brief survey of prehistoric life and sequence of major events through time. Credit cannot be earned for this course and GS106.
This course may be taken 1 time for credit.
Course classification: LDC

**G246 Geological Hazards And Natural Catastrophes** 3 credits (3 lec hrs/wk)
The causes and effects of earthquakes, tsunamis, landslides, ground subsidence and collapse, floods, storms, coastal erosion, volcanic eruptions and more will be addressed. The potential for prediction and mitigation will be examined, as will potential for natural hazards in Oregon and the Pacific Northwest.
This course may be taken 1 time for credit.
Course classification: LDC

**G280 CWE: Geology** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical worksite exposure to applied science, which provides students an opportunity to explore potential career paths in science while gaining practical experience in applying classroom science theory.
This course may be taken 12 times for credit.
Course classification: LDC

# HEALTH (HE)

**HE180 Internship: Health Ed** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore the variety of workplaces in which to apply that knowledge.
This course may be taken 12 times for credit.
Course classification: LDC

**HE250 Personal Health** 3 credits (3 lec hrs/wk)
This personal health course deals with current health trends and issues in the United States. The course will expose students to a broad range of issues and information relating to several dimensions of personal health & wellness: physical, social, emotional, intellectual, spiritual, environmental, and occupational. Topics of exploration include, but are not limited to: nutrition, physical fitness, recognition of stress and weight management techniques, aging, and disease prevention.
This course may be taken 1 time for credit.
Course classification: LDC

**HE252 First Aid & CPR Professional Rescue** 3 credits (3 lec hrs/wk)
This course follows the American Red Cross, and OSHA requirements to prepare the student with knowledge, skill, and techniques necessary to recognize and provide care in first aid, respiratory, and cardiac emergencies using the latest CPR and emergency cardiac care guidelines. Students learn how to perform rescue breathing; one-rescuer and two-rescuer CPR; how to use airway adjuncts (bag-valve-mask, oxygen administration); and how to operate an Automated External Defibrillator (AED). American Red Cross Professional Rescuer and First Aid certification is given upon completion of course requirements.
This course may be taken 1 time for credit.
Course classification: LDC

**HE280 CWE: Rural Health Aide** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore a variety of workplaces in which to apply that knowledge.
This course may be taken 12 times for credit.
Course classification: LDC

**HE280E Field Experience: EMT** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
This course consists of a planned program of observation and practical experience with an organization providing emergency medical services. The course is designed to provide students with experience and an opportunity to apply emergency medical concepts and theory in a field situation.
This course may be taken 12 times for credit.
Course classification: LDC

# HISTORY (HST)

**HST101 History of Western Civilization** 3 credits (3 lec hrs/wk)
This course traces the history of the Western world from its ancient beginnings in Mesopotamia and Egypt up to the rebirth of Europe during the Renaissance.
This course may be taken 1 time for credit.
Course classification: LDC

**HST102 History of Western Civilization** 3 credits (3 lec hrs/wk)
The course traces the history of Western civilization from the Reformation/Age of Religious Wars to the beginning of the Industrial Age (1550 to 1815).
This course may be taken 1 time for credit.
Course classification: LDC

**HST103 History of Western Civilization** 3 credits (3 lec hrs/wk)
The course traces the history of Western civilization from the aftermath of the French Revolution to the present – well almost (1815 to 1991).
This course may be taken 1 time for credit.
Course classification: LDC

**HST104 History of the Middle East** 3 credits (3 lec hrs/wk)
A survey of Middle Eastern history with emphasis on modern, post-World War II era. Course will include geographic, religious, political and cultural issues of the region.
This course may be taken 1 time for credit.
Course classification: LDC

**HST145 Field Study: History** 1-3 credits (3 lab hrs/wk/cr)
A field study of significant historical features of a selected region. Students will apply techniques of inquiry and analysis from various academic disciplines in order to understand and resolve key issues at selected field study sites. Introductory lecture will survey key issues and introduce techniques required for a site-based field study followed by on-site visit. The three credit course does not have the separate lecture component that is a preview and summary experience; that is to be included in the ten-day trip.
This course may be taken 3 times for credit.
Course classification: LDC

**HST180 Internship: History** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical worksite exposure to applied science, which provides students an opportunity to explore potential career paths in science while gaining practical experience in applying classroom science theory.
This course may be taken 12 times for credit.
Course classification: LDC

**HST195 History of the Vietnam War** 3 credits (3 lec hrs/wk)
This is an introductory survey of the Vietnam War which raged from the end of World War II to 1975. Topics include early Vietnamese history, Vietnam and French imperialism, Vietnam in World War II, the French - Vietnamese War, growing U.S. involvement in the 1950s, the creation of North and South Vietnam, the introduction of U.S. combat troops in the 1960s, the victory of Communist forces in 1975, and the impact of the war upon domestic U.S. politics and the role of the Cold War.
This course may be taken 1 time for credit.
Course classification: LDC

**HST201 History of the United States** 3 credits (3 lec hrs/wk)
The United States from colonial times to the mid-nineteenth century just prior to the Civil War. Introduces students to major themes of American social, economic, cultural, and political history.
This course may be taken 1 time for credit.
Course classification: LDC

**HST202 History of the United States** 3 credits (3 lec hrs/wk)
A history of the United States focusing on the major social, economical, political, and cultural developments beginning with the build-up to the Civil War and ending just before American involvement in World War I.
This course may be taken 1 time for credit.
Course classification: LDC

**HST203 History of the United States** 3 credits (3 lec hrs/wk)
A history of the United States focusing on the major social, economical, political, and cultural developments beginning with American involvement in World War I and concluding with the end of the Cold War.
This course may be taken 1 time for credit.
Course classification: LDC

**HST215 History of World War II** 3 credits (3 lec hrs/wk)
This course traces the causes, progression, and results of World War II, including political, social, and military development.
This course may be taken 1 time for credit.
Course classification: LDC

**HST240 Hist of Oregon and the South Coast** 3 credits (3 lec hrs/wk)
This course surveys the history and geography of Oregon within the Pacific Northwest region. Students will use supplemental readings and documents from Oregon's south coast to enhance their understanding of local history while studying the regional history.
This course may be taken 1 time for credit.
Course classification: LDC

**HST280 CWE: History** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
This course offers career exploration and workplace experience within a widely defined number of supervised settings which provide professional experience in the field of history.
This course may be taken 12 times for credit.
Course classification: LDC

# HUMAN DEVELOPMENT (HD)

**HD100 College Success and Survival** 3 credits (3 lec hrs/wk)
Facilitates adjustment to the college environment. Focuses on self-assessment, personal development, educational goal setting and critical thinking. Encourages interdisciplinary exploration, exposure to multiple modes of educational delivery, and structured academic journaling.
This course may be taken 1 time for credit.
Course classification: LDC

**HD101 Community Service Learning Exp** 3 credits (2 lec, 3 lab hrs/wk)
A theoretical and practical course examining the principles and features of service-learning. Students will develop a personal understanding of civic engagement, ethics and leadership through direct and/or indirect service to a community-based organization and through critical reflection. Students will be required to complete 33 hours of service and participate in weekly seminars/discussions.
This course may be taken 1 time for credit.
Course classification: LDC

**HD102 College Nuts and Bolts** 1 credit (1 lec hrs/wk)
Designed for first year students, provides a brief introduction to the essentials of college adjustment. Topics include: Accessing college resources, managing time, understanding college procedures, academic planning and maintaining academic standing.
This course may be taken 1 time for credit.
Course classification: LDC

**HD110 Career and College Awareness** 2 credits (2 lec hrs/wk)
This course focuses on preparing non-traditional students to enter college, training programs and/or employment. It helps students achieve their education and career goals by offering a variety of opportunities for students to identify and reflect on their strengths and interests. Aspects of this course are integrating prior knowledge with new information, improving vocabulary, reading skills, charts and tables and locating information.
This course may be taken 2 times for credit.
Course classification: LDC

**HD111 Math Success** 2 credits (1 lec, 2 lec lab hrs/wk)
This course facilitates students to become successful math learners and critical thinkers. Students will be exposed to a variety of math study skills, problem solving skills, and systems of logic which will be put into immediate practice through group and individual exercises. Students will assess their own most favored learning styles and develop increased comfort in alternative learning situations. Students will also self-identify possible math and/or test anxiety which may be artificially reducing their math grades. Students are encouraged to be concurrently enrolled in a math course required for their majors so that the skills learned here can be put into immediate practice.
This course may be taken 1 time for credit.
Course classification: LDC

**HD112 Study Skills** 3 credits (3 lec hrs/wk)
Designed to increase the students' success in college by assisting them in obtaining skills necessary to reach their educational objectives. Students are introduced to time management strategies, note taking, library usage, problem solving, exam strategies, muscle reading, and learning style.
This course may be taken 1 time for credit.
Course classification: LDC

**HD113 Stop Test Anxiety Now** 1 credit (1 lec hrs/wk)
Covers techniques for coping with debilitating test-taking anxiety, and improving overall test performance. Students will utilize biofeedback to assess individual levels of anxiety and map precise solutions to individual anxiety constructions.
This course may be taken 1 time for credit.
Course classification: LDC

**HD152 Stress Management** 2 credits (2 lec hrs/wk)
Introduces the types, cause, and effects of stress (physiological, psychological, emotional, cognitive, and intrapersonal/interpersonal) from a personal and academic perspective. Facilitates application of tools (including biofeedback) and techniques to identify, manage and re-frame stress to improve academic and life success.
This course may be taken 1 time for credit.
Course classification: LDC

**HD199 Leadership Development** 3 credits (3 lec hrs/wk)
This course is specifically designed to help students achieve success in college by providing them with the essential skills required to reach their academic goals. The course covers various topics such as time management strategies, note-taking, library usage, problem-solving techniques, exam strategies, and reading. Additionally, students will learn how to ask questions, answer them effectively, and integrate new knowledge with existing knowledge. Lastly, this course focuses on developing self-directed learning skills to help students become independent lifelong learners.
This course may be taken 1 time for credit.
Course classification: CTE

**HD208 Career/Life Plan** 3 credits (3 lec hrs/wk)
Students learn a process for career selection, emphasizing development as an ongoing process. Attention is given to self-assessment (skills, interests, values, attitudes, motivational patterns), decision making models, job and career research techniques (including electronic resources), and development of a personal action plan.
This course may be taken 1 time for credit.
Course classification: LDC

# HUMAN DEVELOPMENT AND FAMILY STUDIES (HDFS)

**HDFS140 Contemporary American Families** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( WR121Z )
An introductory course in marriage and family studies that focuses on the diversity of the contemporary American family today as well as giving an overview of relationships and changes in the family environment and structure over time. Theoretical perspectives on family are examined and topics that influence families are included such as violence, gender, divorce, remarriage, economics, and culture.
This course may be taken 1 time for credit.
Course classification: LDC

**HDFS222 Understanding Families: Supporting Diversity Disability and Risk** 3 credits (3 lec hrs/wk)
A practical and theoretical course examining the traditional and evolving roles and functions of families in the 21st century. Topics include cultural, ethnic, and linguistic diversity, supporting families at risk, creating professional alliances with families, communicating and collaborating with families. Emphasis is placed on understanding how the family effects the development of children aged 0 – 8.
This course may be taken 1 time for credit.
Course classification: LDC

**HDFS225 Prenatal Infant and Toddler Development** 3 credits (3 lec hrs/wk)
This course covers principles of theory and development beginning with conception through three years of age. Emphasis is placed on physical, intellectual, emotional, and social development of the young child, including a strong focus on early brain development. The course readings and discussions will focus on typical development with an introduction to atypical development. Caregiving, teaching, and practice based strategies with young children are introduced.
This course may be taken 1 time for credit.
Course classification: LDC

**HDFS227 Parents as Partners in Education** 3 credits (3 lec hrs/wk)
Collaborative family partnerships are a key to success in early childhood programs. Course topics highlight formal and informal communication with parents and the community, and how to be culturally-responsive within these relationships. Students will learn practical strategies for partnering with families and the community to support, enhance, and maximize the quality of care and education for young children. Focus will be on acquiring the critical skills teachers need to establish effective, productive relationships with families and in the community where they teach.
This course may be taken 1 time for credit.
Course classification: CTE

**HDFS229 Child Development PreK - Adolescent** 3 credits (3 lec hrs/wk)
This course covers the principles of theory and development for children aged six through emerging adulthood. Emphasis is placed on physical, intellectual, emotional, and social development, including a strong focus on brain development. The course readings and discussions will focus on typical development with an introduction to atypical development. Caregiving, teaching, and practice based strategies with children and adolescents are introduced.
This course may be taken 1 time for credit.
Course classification: LDC

**HDFS247 Child Development 0-8** 3 credits (3 lec hrs/wk)
This course covers the principles of theory and development for children aged conception through eight years of age. Emphasis is placed on physical, intellectual, emotional, and social development of children, including a strong focus on brain development. The course readings and discussions will focus on typical development with an introduction to atypical development. Caregiving, teaching, and practice based strategies with young children are introduced.
This course may be taken 1 time for credit.
Course classification: LDC

**HDFS285 Prof Issues in Early Childhood Ed** 3 credits (3 lec hrs/wk)
Prerequisite(s): Instructor consent
This childhood education capstone course focuses on the diverse professional roles of early childhood educators in our present society by synthesizing knowledge and experience in the areas of ethics, conflict resolution, leadership, advocacy, and current topics in early childhood education. It includes substantial work assembling the professional portfolio required for graduation for Childhood Education and Family Studies Degrees.
This course may be taken 1 time for credit.
Course classification: LDC

# HUMAN SERVICES (HS)

**HS150 Personal Effectiveness** 3 credits (3 lec hrs/wk)
This course is designed to help students create greater success in college, and in their professional lives, while simultaneously building a supportive learning environment for students in the General Human Services Program. The course utilizes individual and small group exercises to explore human service careers, and issues relevant to being an effective human service professional. Students will learn about setting boundaries, stress management, and burnout prevention as well as other field-oriented skills. Students will be introduced to strategies for providing trauma informed services from a strength-based perspective. This class is accepted by MHACBO to meet part of the certification requirements for alcohol & drug counselors (CADC I).
This course may be taken 1 time for credit.
Course classification: LDC

**HS155 Interviewing Theory and Techniques** 4 credits (4 lec hrs/wk)
Students will be introduced to the theoretical knowledge and interviewing skills required of human service workers in a variety of work settings. Students will learn the basic processes used for information gathering, problem solving, and information or advice giving. They will learn and practice skills associated with conducting an effective interview. Students will be sensitized to the issues common to interviewing people of differing cultural backgrounds. This class is accepted by MHACBO to meet part of the certification requirements for alcohol & drug counselors (CADC I).
This course may be taken 1 time for credit.
Course classification: LDC

**HS158 Trauma: Theory To Practice** 3 credits (3 lec hrs/wk)
This class will introduce students to the sources, and prevalence of trauma in our society. Students will become familiar with the physical, cognitive, emotional, social and behavioral responses to traumatic experiences and will develop a basic understanding of how trauma impacts individuals who seek assistance from human service organizations. Best practices for both trauma specific and trauma-informed services will be explored.
This course may be taken 1 time for credit.
Course classification: LDC

**HS170 Introduction to Practicum** 1 credit (1 lec hrs/wk)
Preparation for practicum. Should be taken at least one term before beginning practicum experience. Focus on researching internship sites; developing a résumé; practicing job search job interviewing techniques. Provides information and a foundation for employment in the human services field by helping develop information and contacts for community agencies.
This course may be taken 1 time for credit.
Course classification: LDC

**HS170B Practicum and Seminar** 5 credits (15 lab hrs/wk)
Prerequisite(s): ( HS150 and HS226 )
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore the variety of workplaces in which to apply that knowledge. Provides on-site clinical and community experience with human service organizations plus weekly seminars. Students are expected to arrange for a field placement with an approved agency prior to the start of class. Seminars are designed to provide supervision and help students integrate field, classroom experiences and interviewing skills.
This course may be taken 1 time for credit.
Course classification: LDC

**HS201 Introduction To Human Services** 3 credits (3 lec hrs/wk)
Students will be introduced to a wide array of social and personal problems that are addressed by the field of human services. Students will explore the way economics and history shape current social welfare programs and policies. The philosophical foundation of the human service movement as well as career opportunities in the field will be examined. Trends and intervention strategies for a number of service systems will be introduced. The impact of culture and diversity on human services will be explored.
This course may be taken 1 time for credit.
Course classification: LDC

**HS209 Crisis Intervention And Prevention** 3 credits (3 lec hrs/wk)
This course will introduce human service and correctional personnel to crisis intervention and prevention that emphasizes crisis counseling and non-physical methods for preventing or controlling disruptive behavior before it escalates. Students will be taught effective non-violent intervention for a wide range of crisis situations. Content of this course will provide students with hands-on practical approaches to crisis management.
This course may be taken 1 time for credit.
Course classification: LDC

**HS221 Co-Occurring Disorders** 4 credits (4 lec hrs/wk)
This course will provide an introduction to the current best practices approach to working with individuals who have dual diagnoses and their families. The course addresses the current emphasis in the field of human services to provide integrated services to individuals and their families when an individual has both a mental health diagnosis and a substance use diagnosis thereby supporting students in better meeting the entry level requirements of social service agencies in Oregon.
This course may be taken 1 time for credit.
Course classification: LDC

**HS224 Group Counseling Skills** 4 credits (4 lec hrs/wk)
Introduction to describing, selecting and appropriately using strategies from accepted and culturally appropriate models for group counseling with clients with a variety of disorders, including substance abuse. Emphasis is on developing group leadership skills. This class is accepted by MHACBO to meet part of the certification requirements for alcohol & drug counselors (CADC I).
This course may be taken 1 time for credit.
Course classification: LDC

**HS226 Ethics And Law** 1 credit (1 lec hrs/wk)
Introduction to the established professional code of ethics that define the professional context within which the addiction counselor and human services provider works. Students will become knowledgeable about federal and state laws and regulations that apply in the field of substance abuse treatment and other human services. This class is accepted by MHACBO to meet part of the certification requirements for alcohol & drug counselors (CADC I).
This course may be taken 1 time for credit.
Course classification: LDC

**HS228 Infectious Diseases** 1 credit (1 lec hrs/wk)
Introduces the epidemiology of HIV/AIDS, hepatitis, tuberculosis and sexually transmitted diseases that frequently infect people who use drugs or who are chemically dependent. Students will examine treatment options and prevention strategies. The legal and policy issues that impact infected individuals as well as the larger community will be explored. This class is accepted by MHACBO to meet part of the certification requirements for alcohol & drug counselors (CADC I).
This course may be taken 1 time for credit.
Course classification: LDC

**HS231 Advanced Interviewing & Counseling** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( HS155 )
This class will provide an introduction to the theory and principles of motivational interviewing. Motivational interviewing is a client-centered approach to helping clients make behavioral changes and encouraging the client to explore and resolve their ambivalence about changing their behaviors. Students will learn the theoretical basis of this evidence based on practice. Students will learn about stages of change and strategies for interviewing effectively at each stage of the change process.
This course may be taken 1 time for credit.
Course classification: LDC

**HS232 Cognitive Behavioral Strategies** 3 credits (3 lec hrs/wk)
This course will introduce students to the theory and methods of cognitive-behavioral approach approaches to counseling. These approaches rest upon the premise that psychological distress and maladaptive behavior is the result of faulty thinking. Cognitive-behavioral approaches are based on a psycho-educational model and focus on changing cognitions in order to change feelings and behavior.
This course may be taken 1 time for credit.
Course classification: LDC

**HS265 Casework Interviewing** 3 credits (3 lec hrs/wk)
Students will learn the theoretical knowledge and skills needed to work effectively as case managers with clients in human services organizations. Students will be introduced to solution focused, and client directed interviewing skills that emphasize client strengths and goals.
This course may be taken 1 time for credit.
Course classification: LDC

**HS266 Case Management** 3 credits (3 lec hrs/wk)
Students will be introduced to the theory and practice of case management. Methods of delivering accessible, integrated, coordinated, and accountable case management services will be presented. Students will learn how to maintain professional records, including documenting assessments, treatment plans, chart notes and other relevant agency records. Cross-cultural issues related to designing and delivering case management services will be explored. This class is accepted by MHACBO to meet part of the certification requirements for alcohol & drug counselors (CADC I).
This course may be taken 1 time for credit.
Course classification: LDC

**HS267 Cultural Competencies Human Services** 4 credits (4 lec hrs/wk)
Diverse cultures and philosophies will be studied. How the human service practitioner can become culturally competent will be the focus. Major ethnic and cultural groups will be studied as well as major cultural assumption and patterns and their impact on identity and mental health.
This course may be taken 1 time for credit.
Course classification: LDC

# HUMANITIES (HUM)

**HUM180 Internship: Humanities** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

**HUM204 World Mythology & Religion** 3 credits (3 lec hrs/wk)
The origins and character of world mythologies. This survey course explores the archetypal stories by which human consciousness shapes a sense of order and belonging in the natural and supernatural worlds. Emphasis will be given to the Shaman as storyteller, as living bridge between two worlds, as healer and shaper of community and culture.
This course may be taken 1 time for credit.
Course classification: LDC

**HUM205 World Mythology & Religion** 3 credits (3 lec hrs/wk)
A consideration of the great myths of India and the Far East. This survey course will explore the foundation myths and the sacred texts which give rise to and inform the great religions of the region, particularly Hinduism and the vehicles of Buddhism. Consideration will also be given to the indigenous myths of the Orient and the ways of life they support (i.e., Shinto, Daoism, Confucianism).
This course may be taken 1 time for credit.
Course classification: LDC

**HUM206 World Mythology & Religion** 3 credits (3 lec hrs/wk)
Treats the great myths and religions of Egypt and the fertile crescent. This survey course also treats Celtic and Nordic beliefs indigenous to Europe, and the mystery religions of Greece. The influence of the ancient myths of early pastoral and agrarian cultures on the Hebrew, Islamic and Christian religions, will be considered, as well as the departure those religions make from the mythic character of the world from which they emerged.
This course may be taken 1 time for credit.
Course classification: LDC

**HUM280 CWE: Humanities** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

# JOURNALISM (J)

**J100 Media Professions** 2 credits
This course will provide an overview of today's media and the different career opportunities that industry provides. Students will learn industry trends, job opportunities and issues in various forms of journalism, print media and communications. Students will also explore the role social media and marketing play in the media industry. The course will help prepare students for a potential career in the media.
This course may be taken 1 time for credit.
Course classification: LDC

**J101 Grammar for Communicators** 2 credits
This course provides a practical review of grammar, spelling, word use and principles of clear, concise writing in the context of media writing. The course focuses on effective communication to both internal and external audiences.
This course may be taken 1 time for credit.
Course classification: LDC

**J180 Internship: Journalism** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options within the field of journalism and media production.
This course may be taken 12 times for credit.
Course classification: LDC

**J201 Media and Society** 4 credits
This course is an introduction to media and the various ways it impacts society. We will examine media from a historical context, looking at the evolution of media and the role it has played in society. We will dive into the major innovations that have changed the media landscape and how we receive media. Students completing this course will have an understanding of how different forms of media have been developed, the ways that they work, and how they connect everyone today.
This course may be taken 1 time for credit.
Course classification: LDC

**J280 Cooperative Work Experience Journalism** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
This course offers career exploration and workplace experience within a widely defined number of supervised settings which provide professional experience in the field of journalism and media production.
This course may be taken 12 times for credit.
Course classification: LDC

# LIBRARY SCIENCE (LIB)

**LIB180 Internship Library** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

# MACHINE TOOL (MT)

**MT101 Machine Tool Processes I** 3 credits (1 lec, 4 lec lab hrs/wk)
Prerequisite(s): ( WLD101 )
Introduce machine tool technology including an overview of manual lathes and milling machines, drill presses and grinders and basic measurements. The function, basic operation and set-up will be studied.
This course may be taken 1 time for credit.
Course classification: CTE

**MT102 Machine Tool Processes II** 3 credits (1 lec, 4 lec lab hrs/wk)
Prerequisite(s): ( MT101 )
This second course in this sequence continues the study of machine tool operations and set-up, with emphasis on the vertical milling machines, tool sharpening by hand, and advanced lathe set-ups such as threading and tapering. Machine theory and precision measurement is studied and applied. Students gain sound understanding of why machine tools are the basis of manufacturing.
This course may be taken 1 time for credit.
Course classification: CTE

**MT103 Machine Tool Processes III** 3 credits (1 lec, 4 lec lab hrs/wk)
Prerequisite(s): ( MT102 )
In this third course of the basic sequence, the student will study the operation and set-up of the tool and cutter, grinder, the surface grinder and the horizontal bandsaw. Provides students with an opportunity to apply the skills developed in the two previous MT courses. Students will have the necessary understanding of why machine tools are the basis of manufacturing. More advanced machine set-ups will be studied and applied. The students will gain basic skills in the area of computer usage in the machine shop.
This course may be taken 1 time for credit.
Course classification: CTE

# MANUFACTURING TECHNOLOGY (MFG)

**MFG100 Industrial Safety** 3 credits (2 lec, 1 lec lab hrs/wk)
This course focuses on learning the fundamentals of mechanical power. Students learn common mechanical components from nuts and bolts to gears, gear boxes, shafts and bearings. Students perform common mechanical tasks, and learn to fine-tune drive systems involving belts, chains, etc. This course demonstrates the importance of lubrication in maintaining gears and other movable parts, and emphasizes operations to reduce friction and wasted motion, which are major contributors to energy inefficiency.
This course may be taken 1 time for credit.
Course classification: CTE

**MFG105 Precision Measuring Instruments** 1 credit (2 lec lab hrs/wk)
This course exposes students to the proper usage, reading, and maintence of precision measuring instruments. From this course students will show competency through hands-on application, and demonstrations of accurate readings.
This course may be taken 1 time for credit.
Course classification: CTE

**MFG180 Internship: Manufacturing** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore the variety of workplaces in which to apply that knowledge.
This course may be taken 12 times for credit.
Course classification: LDC

**MFG280 CWE: Manufacturing** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
The student is required to be employed in a manufacturing-related position for an organization or company utilizing manufacturing principles, methods, techniques, and/or skills.
This course may be taken 12 times for credit.
Course classification: LDC

# MATHEMATICS (MTH)

For information about Southwestern's math placement process or math pathways please talk to an advisor in the Student Success Center at 541-888-7405.

It is highly important that students consult with their advisor to make sure they are following the appropriate mathematics path needed for their chosen degree.

**MTH105A Corequisite Support for MTH 105** 1 credit (2 lec lab hrs/wk)
Prerequisite(s): Instructor consent
Corequisite(s): ( MTH105Z )
This support course focuses on the foundational skills and concepts needed to be persistent and successful in MTH 105. Students will receive appropriate support as needed in arithmetic, algebra, problem solving, geometry, technology, and study skills in an interactive setting.
This course may be taken 1 time for credit.
Course classification: LDC

**MTH105Z Math in Society** 4 credits
Prerequisite(s): ( MTH95 ) or ( MTH98 )
Corequisite(s): ( MTH105A )
An exploration of present-day applications of mathematics focused on developing numeracy. Major topics include quantitative reasoning and problem-solving strategies, probability and statistics, and financial mathematics; these topics are to be weighted approximately equally. This course emphasizes mathematical literacy and communication, relevant everyday applications, and the appropriate use of current technology.
This course may be taken 1 time for credit.
Course classification: LDC

**MTH111A Corequisite Support for MTH111** 1 credit (2 lec lab hrs/wk)
Prerequisite(s): Instructor consent
Corequisite(s): ( MTH111Z )
This support course focuses on the foundational skills, concepts and communication needed to be persistent and successful in MTH 111. Students will receive appropriate support as needed in algebra, functions, problem solving, graphing, technology, and study skills in an interactive setting.
This course may be taken 1 time for credit.
Course classification: LDC

**MTH111Z Pre-Calculus** 4 credits
Prerequisite(s): ( MTH95 )
Corequisite(s): ( MTH111A )
A course primarily designed for students preparing for trigonometry or calculus. This course focuses on functions and their properties, including polynomial, rational, exponential, logarithmic, piecewise-defined, and inverse functions. These topics will be explored symbolically, numerically, and graphically in real-life applications and interpreted in context. This course emphasizes skill building, problem solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of present-day technology.
This course may be taken 1 time for credit.
Course classification: LDC

**MTH112Z Precalculus II: Trigonometry** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( MTH111Z )
A course primarily designed for students preparing for calculus and related disciplines. This course explores trigonometric functions and their applications as well as the language and measurement of angles, triangles, circles, and vectors. These topics will be explored symbolically, numerically, and graphically in real-life applications and interpreted in context. This course emphasizes skill building, problem solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of present-day technology.
This course may be taken 1 time for credit.
Course classification: LDC

**MTH180 Internship: Mathematics** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

**MTH20 Basic Mathematics** 4 credits (4 lec hrs/wk)
A course designed to (1) introduce students to various applications of basic mathematics and (2) prepare students for elementary algebra by strengthening their foundations in the real number system. Topics include: Whole numbers and their operations; signed numbers and their operations; fraction and decimal notation; ration and proportion; percent notation; geometry; and, an introduction to variables and linear equations.
This course may be taken 1 time for credit.
Course classification: DEV

**MTH211 Fundamentals of Elementary Mathematics I** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( MTH95 )
A foundation in mathematics for elementary teachers. Topics include: Introduction to problem solving, number systems, number theory, logic, sets, relations, and functions.
This course may be taken 1 time for credit.
Course classification: LDC

**MTH212 Fundamentals of Elementary Mathematics II** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( MTH211 )
A foundation in mathematics for elementary teachers. Topics include: Rational numbers, exponents, decimals and applications. Probability and statistics will be introduced.
This course may be taken 1 time for credit.
Course classification: LDC

**MTH213 Fundamentals of Elementary Mathematics III** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( MTH212 )
A foundation in mathematics for elementary teachers. Topics include: Euclidean geometry, constructive geometry, measurement, motion and tessellation.
This course may be taken 1 time for credit.
Course classification: LDC

**MTH231 Elements of Discrete Mathematics I** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( MTH112Z )
Topics include: Propositional calculus (the logic of compound statements), predicate calculus (the logic of quantified statements), elementary number theory and proof methods, sequences and mathematical induction, set thoery. The first course of a two-term sequence strongly recommended for computer engineering, computer science and mathematics majors.
This course may be taken 1 time for credit.
Course classification: LDC

**MTH232 Elements of Discrete Mathematics II** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( MTH231 )
Topics include: Functions, recursion, graphs of functions, coordinate diagrams, order notation, effciency of algorithims, relations, partially and totally ordered sets, (topological) graph and tree theory. The second course of a two-term sequence strongly recommended for computer engineering, computer science and mathematics majors.
This course may be taken 1 time for credit.
Course classification: LDC

**MTH241 Calculus for Bus and Soc Science I** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( MTH111Z )
Review of functions and their graphs. Overview of limits and continuity. Introduction to differential calculus of polynomial and rational functions. Cover rules and techniques of differentiation. Introduction to First and Second Derivative Tests, curve sketching, and optimization. Applications in economics, business, social and managerial sciences.
This course may be taken 1 time for credit.
Course classification: LDC

**MTH242 Calculus for Bus and Soc Science II** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( MTH241 )
Introduction to exponential and logarithmic functions and their derivatives. Uses of exponential and natural logarithmic functions. Introduction to integral calculus of polynomial, rational, exponential, and logarithmic functions. Cover Riemann sums, Fundamental Theorem of Calculus, and techniques of integration. Applications in the social and manager sciences.
This course may be taken 1 time for credit.
Course classification: LDC

**MTH243A Corequisite Support for MTH243** 1 credit (2 lec lab hrs/wk)
Prerequisite(s): Instructor consent
This support course focuses on the foundational skills, concepts and communication needed to be persistent and successful in MTH 243. In an interactive setting, students will receive appropriate support in quantitative and reasoning skills, reading comprehension, statistic notations, problem solving, technology, and study skills.
This course may be taken 1 time for credit.
Course classification: LDC

**MTH244 Probability & Statistics II** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( STAT243Z )
Offers a second course open to all majors covering testing of two-sample problems, linear regression and correlation, chi-squared tests, one-way and two-way analysis of variance, and non-parametric methods.
This course may be taken 1 time for credit.
Course classification: LDC

**MTH251Z Differential Calculus** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( MTH112Z )
: This course explores limits, continuity, derivatives, and their applications for real-valued functions of a single variable. These topics will be explored graphically, numerically, and symbolically in real-life applications. This course emphasizes abstraction, problem-solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of technology.
This course may be taken 1 time for credit.
Course classification: LDC

**MTH252Z Integral Calculus** 4 credits
Prerequisite(s): ( MTH251Z )
This course explores Riemann sums, definite integrals, and indefinite integrals for real-valued functions of a single variable. These topics will be explored graphically, numerically, and symbolically in real-life applications. This course emphasizes abstraction, problem-solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of technology.
This course may be taken 1 time for credit.
Course classification: LDC

**MTH253Z Calculus: Sequences and Series** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( MTH252Z )
This course explores real-valued sequences and series, including power and Taylor series. Topics include convergence and divergence tests and applications. These topics will be explored graphically, numerically, and symbolically. This course emphasizes abstraction, problem-solving, reasoning, communication, connections with other disciplines, and the appropriate use of technology.
This course may be taken 1 time for credit.
Course classification: LDC

**MTH254 Vector Calculus I** 4 credits (3 lec, 2 lec lab hrs/wk)
Prerequisite(s): ( MTH252Z )
Topics include three-dimensional space and coordinate systems, analytic geometry, vector algebra, space curves, surfaces, vector-valued functions, vector calculus, parametrizations, curvature, functions of several variables, and derivatives of functions of several variables.
This course may be taken 1 time for credit.
Course classification: LDC

**MTH255 Vector Calculus II** 4 credits (3 lec, 2 lec lab hrs/wk)
Prerequisite(s): ( MTH254 )
Topics include tangent planes and gradient; optimization of functions of several variables; iterated integration, multiple integrals; divergence and curl of vector fields, line and surface integrals; Green's, Gauss', and Stokes' theorems.
This course may be taken 1 time for credit.
Course classification: LDC

**MTH256 Differential Equations** 4 credits (3 lec, 2 lec lab hrs/wk)
Prerequisite(s): ( MTH252Z )
Topics include first-order linear and nonlinears ODEs; second-order linear ODEs; series solutions to second-order linear ODEs; Laplace transforms; systems of linear ODEs.
This course may be taken 1 time for credit.
Course classification: LDC

**MTH260 Matrix Methods and Linear Algebra** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( MTH252Z )
Topics include: Matrix concepts and algebra; determinants and inverses of matrices; solution methods for systems of linear equations; linear independence linear transformations and vector spaces; bases and coordinates; eigenvalues and eigenvectors; diagonalization of matrices. This course covers the standard linear algebra topics required for engineering, mathematics, and science majors.
This course may be taken 1 time for credit.
Course classification: LDC

**MTH264 Introduction to Matrix Algebra and Power Series** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( MTH252Z )
Topics include: Introduction to matrix algebra; systematic solution to systems of linear equations; linear transformations; eigenvalue problems. This course covers the standard matrix algebra topics required for engineering, mathematics, and science majors. Convergence and divergence of numerical series, including geometric series. Series of functions. Power series and their analytic properties. Taylor series expansions and Taylor polynomials.
This course may be taken 1 time for credit.
Course classification: LDC

**MTH280 CWE: Math** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical worksite exposure to applied science, which provides students an opportunity to explore potential career paths in science while gaining practical experience in applying classroom science theory.
This course may be taken 12 times for credit.
Course classification: LDC

**MTH65 Algebra II** 4 credits (4 lec hrs/wk)
A study of the concepts and principles considered in Algebra.
This course may be taken 1 time for credit.
Course classification: DEV

**MTH80 Technical Mathematics I** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( MTH20 ) or ( MTH55 )
This course includes basic algebraic concepts and their application in technical scenarios involving measurement precision and accuracy, materials consumption, labor and production estimates, product design, dimensioning and tolerances, economical layout, takeoffs and estimates, and metal bending and stretchouts. Offered by the mathematics department in cooperation with the career technical education faculty.
This course may be taken 1 time for credit.
Course classification: DEV

**MTH81 Applied Mathematics for Culinary Arts** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( MTH20 ) or ( MTH55 ), or instructor consent
Includes basic algebraic concepts with culinary applications, basic statistics and graphing, graphing in a rectangular coordinate system, and weights, measures and metric conversion. Offered by the mathematics department in cooperation with the culinary education faculty. Enrollment in the culinary program required as a co-requisite for this course.
This course may be taken 1 time for credit.
Course classification: DEV

**MTH82 Business Mathematics** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( MTH20 )
This course includes basic algebraic concepts and their application in business scenarios involving discounts, pricing and inventory control, payrolls and banking, simple and compound interest, billing, accounting, taxes, and depreciation. Offered by the mathematics department in cooperation with the business faculty.
This course may be taken 1 time for credit.
Course classification: DEV

**MTH95 Intermediate Algebra** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( MTH65 )
A study of the concepts and principles considered in intermediate algebra.
This course may be taken 1 time for credit.
Course classification: DEV

**MTH98 Math Literacy** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( MTH20 )
Math Literacy is a course designed for liberal arts and humanities majors. This course develops quantitative reasoning, modeling, and problem solving skills needed in MTH105 and in other college courses in programs not requiring calculus. For students not needing calculus, MTH98 is an alternative to MTH 60/65/95 as a pathway to MTH105. Topics include rational numbers and their representations, linear relationships, proportional reasoning, statistics, and probability.
This course may be taken 1 time for credit.
Course classification: DEV

# MUSIC (MUS)

**MUS101 Music Fundamentals** 3 credits (3 lec hrs/wk)
A course to instruct in the fundamentals of music. A preparatory course for private instruction, ensemble participation and for a better understanding of music and music history. Music fundamentals, scales, key signatures, meter, notation, chords, non-harmonics, introduction to piano, and sight singing. Recommended for music minors, beginning musicians and preparatory for some music majors. (Contact music advisor for proper placement.)
This course may be taken 1 time for credit.
Course classification: LDC

**MUS111 Music Theory I** 3 credits (3 lec hrs/wk)
A course to instruct in the fundamentals of music, figured bass analysis, four-part composition, chords with sevenths, secondary dominants, modulation and basic musical forms. This is a preparatory course for private instruction, for ensemble participation, and for a better understanding of music and music history. Required for music majors and minors, recommended for beginning and intermediate musicians.
This course may be taken 1 time for credit.
Course classification: LDC

**MUS112 Music Theory II** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( MUS111 )
A course to instruct in the fundamentals of music, figured bass analysis, four-part composition, chords with sevenths, secondary dominants, modulation and basic musical forms. This is a preparatory course for private instruction, for ensemble participation, and for a better understanding of music and music history. Required for music majors and minors, recommended for beginning and intermediate musicians.
This course may be taken 1 time for credit.
Course classification: LDC

**MUS113 Music Theory III** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( MUS112 )
A course to instruct in the fundamentals of music, figured bass analysis, four-part composition, chords with sevenths, secondary dominants, modulation and basic musical forms. This is a preparatory course for private instruction, for ensemble participation, and for a better understanding of music and music history. Required for music majors and minors, recommended for beginning and intermediate musicians.
This course may be taken 1 time for credit.
Course classification: LDC

**MUS114 Aural Skills I** 1 credit (2 lec lab hrs/wk)
Corequisite(s): ( MUS111 )
Learn to hear music and identify tones and chords (dictation), transfer music notation and communicate notation by voice (sight singing). Learn to hear what we see (sight singing) and be able to see what we hear (dictation).
This course may be taken 1 time for credit.
Course classification: LDC

**MUS115 Aural Skills I** 1 credit (2 lec lab hrs/wk)
Prerequisite(s): ( MUS114 )
Corequisite(s): ( MUS112 )
Learn to hear music and identify tones and chords (dictation), transfer music notation and communicate notation by voice (sight singing). Learn to hear what we see (sight singing) and be able to see what we hear (dictation).
This course may be taken 1 time for credit.
Course classification: LDC

**MUS116 Aural Skills I** 1 credit (2 lec lab hrs/wk)
Prerequisite(s): ( MUS115 )
Corequisite(s): ( MUS113 )
Learn to hear music and identify tones and chords (dictation), transfer music notation and communicate notation by voice (sight singing). Learn to hear what we see (sight singing) and be able to see what we hear (dictation).
This course may be taken 1 time for credit.
Course classification: LDC

**MUS118 Music and Computers** 3 credits (3 lec hrs/wk)
This course is desigend to give students a fundamental understanding of how computers are used in the music field. Students will be introduced to MIDI (Musical Instrument Digital Interface) which is an industry standard protocol utilized by all digital music instruments. In addition, students will be introduced to various software packages that make use of this MIDI technology. Students will also be given hands-on experience working with a computer and digital musical instruments and sound modules culminating in their ability to set up their own MIDI studio, or work in a MIDI studio that is already in place (i.e. a recording studio or educational classroom).
This course may be taken 1 time for credit.
Course classification: LDC

**MUS131 Piano Class** 1 credit (2 lec lab hrs/wk)
Piano basics and music fundamentals. Learn to read notes, basic music symbols, perform simple chords, major scales, and repertoire. Simple transposition and harmonization will also be taught.
This course may be taken 3 times for credit.
Course classification: LDC

**MUS132 Piano Class** 1 credit (2 lec lab hrs/wk)
Prerequisite(s): ( MUS131 )
Based upon continuing the work in MUS131, all major keys - introduction to minor keys. Performance of chord progressions in major & minor keys, transposition, simple modulations using deceptive cadences, sight reading, and repertoire.
This course may be taken 3 times for credit.
Course classification: LDC

**MUS133 Piano Class** 1 credit (2 lec lab hrs/wk)
Prerequisite(s): ( MUS132 )
Based upon continuing the work in MUS132, all major keys - introduction to minor keys. Performance of chord progressions in major & minor keys, transposition, simple modulations using deceptive cadences, sight reading, and repertoire.
This course may be taken 1 time for credit.
Course classification: LDC

**MUS134 Voice Class** 1 credit (1 lec hrs/wk)
A study of vocal basics. An introduction to music fundamentals, tone production, abdominal breathing, vowel-consonant clarity and relaxation techniques.
This course may be taken 1 time for credit.
Course classification: LDC

**MUS137 Guitar Class** 1 credit (1 lec hrs/wk)
Guitar basics and music fundamentals. Learn to read notes, basic music symbols, perform simple to advanced chords, strumming-picking techniques and "barring." Introduction to classical guitar methods.
This course may be taken 3 times for credit.
Course classification: LDC

**MUS161 Jazz Improvisation Blues And Beginnings** 1 credit (2 lec lab hrs/wk)
Corequisite(s): ( MUP105 )
Blues and beginning improvisation. Listening, theory demonstration, explanation and using improv in performance.
This course may be taken 1 time for credit.
Course classification: LDC

**MUS170 Introduction to Recording Technique** 3 credits (2 lec, 2 lec lab hrs/wk)
This course is designed to teach students how to record music using state of the art digital recording equipment. The use of industry standard digital recording software, in conjunction with a computer and mixing equipment, will be utilized in a limited "hands on" environment. Topics of instruction will include, microphone placement, basic acoustic principles, multiple tracking techniques including bouncing and splitting, mixing multiple tracks into two tracks (stereo), working with analog and digital signals, final- and post-production of recordings, making CD's, syncing to video recordings, etc.
This course may be taken 1 time for credit.
Course classification: LDC

**MUS180 Internship: Music** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

**MUS201 Intro to Music and its Literature** 3 credits (3 lec hrs/wk)
The study of musical styles and the historical context of music from Antiquity through the Renaissance. Emphasis is on the examination and subsequent appreciation of the music literature and the composers who wrote that music in these time periods. Listening skills for music will also be developed, concentrating on the development of a deeper understanding of music and its role in the cultural context of various historical time periods.
This course may be taken 1 time for credit.
Course classification: LDC

**MUS202 Intro to Music and its Literature** 3 credits (3 lec hrs/wk)
The study of musical styles and the historical context of music from the Early Baroque Period through the late Classical Period. Emphasis is on the examination and subsequent appreciation of the music literature and the composers who wrote the music in these time periods. Listening skills for music will also be developed, concentrating on the development of a deeper understanding of music and its role in the cultural context of the various historical time periods.
This course may be taken 1 time for credit.
Course classification: LDC

**MUS203 Intro to Music and its Literature** 3 credits (3 lec hrs/wk)
The study of musical styles and the historical context of music from the Romantic Period (1827 to 1900) through the twentieth century and into the twenty-first century. Emphasis is on the examination and subsequent appreciation of the music literature and the composers who wrote that music in these time periods. Listening skills for music will also be developed, concentrating on the development of a deeper understanding of music and its role in the cultural context of the various historical time periods.
This course may be taken 1 time for credit.
Course classification: LDC

**MUS205 Intro to Jazz History** 3 credits (3 lec hrs/wk)
An introduction to the one true American music genre. Exploring the beginning of jazz, early blues, Dixieland, the big band era, bebop, fusion, free form jazz, contemporary jazz, and straight ahead jazz. Students will also be introduced to rhythm and blues, gospel and early rock and roll. This course has been approved to meet the Cultural Literacy requirement.
This course may be taken 1 time for credit.
Course classification: LDC

**MUS206 Intro to History of Rock and Roll** 3 credits (3 lec hrs/wk)
A survey of rock music from its origins to the present as revealed through the study of the most innovative and influential artists of this American musical form. Emphasis is placed on building listening and comprehension skills through listening to rock and roll, in-class discussion of the music, class assignments, research, and reading of the text.
This course may be taken 1 time for credit.
Course classification: LDC

**MUS207 The Beatles and Their Music** 3 credits (3 lec hrs/wk)
The Beatles rose to prominence in the 1960's and this course will look at how they got started, following them through the British Invasion culminating in their final roof-top concert at Abbey Road studios and their final album "Let It Be" which was released in 1970. While looking at the drug counter-culture as only part of the myth that surrounds the Beatles, this course will also look at how their music came together both on the road and in the recording studio. It will also examine how and why their music is still popular today, 50 years after their first #1 hit!
This course may be taken 1 time for credit.
Course classification: LDC

**MUS211 Advanced Music Theory I** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( MUS113 )
Corequisite(s): ( MUS224 )
A study of music that includes the extended diatonic and chromatic harmonies indicatve of the Late Baroque, Classical and early Romantic Periods. Included in this study is the writing of four-part SATB part writing, analysis of form, melody and harmony including the use of secondary dominants, modulation, neapolitan harmonies and mode mixture. Larger forms such as Rondo and Sonata Allegro will also be introduced.
This course may be taken 1 time for credit.
Course classification: LDC

**MUS212 Advanced Music Theory II** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( MUS211 )
Corequisite(s): ( MUS225 )
A study of polyphony, counterpoint, chromatic chords and twentieth century composition.
This course may be taken 1 time for credit.
Course classification: LDC

**MUS213 Advanced Music Theory III** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( MUS212 )
Corequisite(s): ( MUS226 )
A study of polyphony, counterpoint, extended and chormatically altered chords and twentieth century composition.
This course may be taken 1 time for credit.
Course classification: LDC

**MUS221 Arranging I** 1 credit (2 lec lab hrs/wk)
Prerequisite(s): ( MUS113 )
Basic arranging techniques, instrumentation and notation practices for live rhythm section, lead vocal, score preparation, parts preparation, notation and nomenclature in contemporary styles.
This course may be taken 1 time for credit.
Course classification: LDC

**MUS222 Arranging II** 1 credit (2 lec lab hrs/wk)
Prerequisite(s): ( MUS221 )
A continuation of rhythm section arranging with the addition of one or two horns; saxophone and trumpet. Discussion of transposition and range on contemporary music styles.
This course may be taken 1 time for credit.
Course classification: LDC

**MUS223 Arranging III** 1 credit (2 lec lab hrs/wk)
Prerequisite(s): ( MUS222 )
The third level of this series focuses on various contemporary applications of small horn section writing and rhythm section. Voicings and styles is discussed.
This course may be taken 1 time for credit.
Course classification: LDC

**MUS224 Sight Singing Ear Training II** 1 credit (2 lec lab hrs/wk)
Prerequisite(s): ( MUS116 )
Corequisite(s): ( MUS211 ) or ( MUS212 ) or ( MUS213 )
This class is designed to teach the student to hear, identify, write and sing melodies, chords and rhythm from sight and by listening to melodic and harmonic material played for the student. Music majors take three terms.
This course may be taken 1 time for credit.
Course classification: LDC

**MUS225 Sight Singing Ear Training II** 1 credit (2 lec lab hrs/wk)
Prerequisite(s): ( MUS224 )
Corequisite(s): ( MUS212 )
This class is designed to teach the student to hear, identify, write and sing melodies, chords and rhythm from sight and by listening to melodic and harmonic material played for the student. Music majors take three terms.
This course may be taken 1 time for credit.
Course classification: LDC

**MUS226 Sight Singing Ear Training II** 1 credit (2 lec lab hrs/wk)
Prerequisite(s): ( MUS225 )
Corequisite(s): ( MUS213 )
This class is designed to teach the student to hear, identify, write and sing melodies, chords and rhythm from sight and by listening to melodic and harmonic material played for the student. Music majors take three terms.
This course may be taken 1 time for credit.
Course classification: LDC

**MUS280 CWE: Music** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
This course offers career exploration and workplace experience within a widely defined number of supervised settings which provide professional experience in the field of music.
This course may be taken 12 times for credit.
Course classification: LDC

# MUSIC PERFORMANCE (MUP)

**MUP105 Jazz Band** 1 credit (2 lec lab hrs/wk)
The sounds of the "Big Band" era. This group performs regularly both locally and throughout the State. Audition first class.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP114 Stage Band** 1 credit (2 lec lab hrs/wk)
A performance ensemble which rehearses and performs the appropriate musical literature chosen by the instructor. Instruction will be given to individuals as well as the ensemble as how to improve the overall musical effect. Pop ballads to jazz both traditional and non-traditional. Intermediate and advanced musicians are admitted. Student may need to audition.
This course may be taken 1 time for credit.
Course classification: LDC

**MUP121 Symphonic Choir** 1 credit (2 lec lab hrs/wk)
A large choral ensemble performing the works of major composers, encompassing all musical periods and styles. Students may be asked to audition.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP125 Vocal Jazz Southwesters** 2 credits (4 lec lab hrs/wk)
Pop ballads, early rock and roll, traditional jazz, and blues will be the material rehearsed and performed by this ensemble. Emphasis will be placed upon the dynamics of live performance.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP131 Chamber Choir** 2 credits (4 lec lab hrs/wk)
Small choral ensemble performing the major works and the octavo literature of prominent composers of every musical period. Student may be asked to audition.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP142 Orchestra** 1 credit (2 lec lab hrs/wk)
Strings, woodwinds, brass, and percussion performing the works of composers from every musical period. Intermediate and advanced musicians admitted. Students may be asked to audition.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP171 Private Instruction: Piano** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Instructor consent is required for all private lessons. All credits for private lessons is transferable. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP174 Private Instruction: Voice** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Instructor consent is required for all private lessons. All credits for private lessons is transferable. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP175 Private Instruction: Violin** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Instructor consent is required for all private lessons. All credits for private lessons is transferable. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP178 Private Instruction: Bass Guitar** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Instructor consent is required for all private lessons. All credits for private lessons is transferable. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP179 Private Instruction: Guitar** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 1 time for credit.
Course classification: LDC

**MUP181 Private Instruction: Flute** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Instructor consent is required for all private lessons. All credits for private lessons is transferable. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP182 Private Instruction: Oboe** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Instructor consent is required for all private lessons. All credits for private lessons is transferable. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP183 Private Instruction: Clarinet** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Instructor consent is required for all private lessons. All credits for private lessons is transferable. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP184 Private Instruction: Saxophone** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Instructor consent is required for all private lessons. All credits for private lessons is transferable. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP186 Private Instruction: Trumpet** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Instructor consent is required for all private lessons. All credits for private lessons is transferable. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP187 Private Instruction: French Horn** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Instructor consent is required for all private lessons. All credits for private lessons is transferable. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP188 Private Instruction: Trombone** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Instructor consent is required for all private lessons. All credits for private lessons is transferable. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP191 Private Instruction: Percussion** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Instructor consent is required for all private lessons. All credits for private lessons is transferable. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP202B Community Band** 1 credit (2 lec lab hrs/wk)
A performance ensemble which rehearses and performs marches, traditional band literature, classical literature arranged for concert band. Intermediate and advanced musicians are admitted. Students may be asked to audition.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP271 Private Instruction: Piano** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Instructor consent is required for all private lessons. All credits for private lessons is transferable. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP274 Private Instruction: Voice** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Instructor consent is required for all private lessons. All credits for private lessons is transferable. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP275 Private Instruction: Violin** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Instructor consent is required for all private lessons. All credits for private lessons is transferable. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP278 Private Instruction: Bass Guitar** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Instructor consent is required for all private lessons. All credits for private lessons is transferable. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP279 Private Instruction: Guitar** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP281 Private Instruction: Flute** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Instructor consent is required for all private lessons. All credits for private lessons is transferable. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP283 Private Instruction: Clarinet** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Instructor consent is required for all private lessons. All credits for private lessons is transferable. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP284 Private Instruction: Saxophone** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Instructor consent is required for all private lessons. All credits for private lessons is transferable. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP286 Private Instruction: Trumpet** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Instructor consent is required for all private lessons. All credits for private lessons is transferable. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP287 Private Instruction: French Horn** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Instructor consent is required for all private lessons. All credits for private lessons is transferable. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP288 Private Instruction: Trombone** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Instructor consent is required for all private lessons. All credits for private lessons is transferable. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

**MUP291 Individual Lessons: Percussion** 1 credit (1 lec hrs/wk)
Individual lessons are arranged with the instructor, based upon available time and space. Instructor consent is required for all private lessons. All credits for private lessons is transferable. Music majors are expected to have a primary instrument of performance and be enrolled for individual instruction. Lessons are given for all levels of musicianship.
This course may be taken 6 times for credit.
Course classification: LDC

# NATURAL RESOURCES (NR)

**NR180 Internship: Natural Resources** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

**NR201 Managing Natural Res for the Future** 3 credits (3 lec hrs/wk)
This course offers an overview of the complexities involved in managing natural resources in the Pacific Northwest and elsewhere, exposure to major natural resources issues, and development of critical thinking skills useful in seeking solutions.
This course may be taken 1 time for credit.
Course classification: LDC

**NR210 Restoration And Fire Ecology** 3 credits (2 lec, 2 lec lab hrs/wk)
The fundamentals of restoration and natural history from the Pacific Northwest to sites across the world. Topics covered include the basics of restoration including site assessment, determining goals and feasibility, biotic, and abiotic functions. Students will compare restoration projects including the role of fire ecology in prescribed burning and cultural burning.
This course may be taken 1 time for credit.
Course classification: CTE

**NR211 Fungal Ecology** 2 credits (1 lec, 2 lec lab hrs/wk)
From the forest to the classroom, students will identify common mushrooms in Western Oregon. The main objective is to provide students with a broad overview of this kingdom of organisms. Beginners and amateur mycologists are welcome to join classroom discussions to learn about fungal diversity, the role of fungi in decomposition, and other roles in the forest and across bioregions. The group will participate in field trips to learn how to identify, harvest, and prepare wild mushrooms. The field trips will be followed up with lab identification techniques and an opportunity to taste the culinary value of our region's wild mushroom.
This course may be taken 1 time for credit.
Course classification: LDC

**NR260 Watershed Processes** 4 credits (3 lec, 3 lab hrs/wk)
This course is about learning both the concepts and physical processes of water movement as well as the techniques to solve hydrologic problems and analyze hydrologic data. This class has a quantitative component. Covering quantify rates of water exchange between the atmosphere, the ground, and the ocean. The class is structured around the hydrologic cycle, which can be pictured as a set of linked processes that cycle water between the ocean, atmosphere, and land surface. We will examine the individual components of the hydrologic cycle, as well as interactions between these components.
This course may be taken 1 time for credit.
Course classification: LDC

**NR280 CWE: Natural Resources** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore a variety of workplaces in which to apply that knowledge.
This course may be taken 12 times for credit.
Course classification: LDC

# NURSING (NRS)

**NRS110 Foundation Of Nursing Health Promot** 9 credits (5 lec, 3 lab, 6 lec lab hrs/wk)
Prerequisite(s): Instructor consent
This course introduces the learner to framework of the OCNE curriculum. The emphasis on health promotion across the life span includes learning about self-care as well as patient health practices. To support self and patient health practices, students learn to access evidence about healthy lifestyle patterns and risk factors for disease/illness, apply growth and development theory, interview patients in a culturally sensitive manner, identify members of an interprofessional team, and use reflective thinking about their practice as nursing students. Includes classroom and clinical learning experiences. The clinical portion of the course includes practice with selected core nursing skills.
This course may be taken 1 time for credit.
Course classification: CTE

**NRS111 Found of Nrsg in Chronic Illness I** 6 credits (2 lec, 3 lab, 6 lec lab hrs/wk)
Prerequisite(s): Instructor consent
Corequisite(s): ( NRS230 ) or ( NRS232 )
This course expands on assessment and common interventions with the focus on patients with chronic illnesses common across the life span in multiple ethnic groups. The patient's and family's "lived experience" of the condition is explored. Clinical practice guidelines and research evidence are used to guide clinical judgments in the care of individuals with chronic conditions. Multidisciplinary team roles and responsibilities are explored in the context of delivering safe, high-quality health care to individuals with chronic conditions (includes practical and legal aspects of delegation). Cultural, ethical, legal, and health care delivery issues are explored through case scenarios and clinical practice. The course includes classroom and clinical learning experiences. The clinical portion of the course includes practice with selected core nursing skills.
This course may be taken 1 time for credit.
Course classification: CTE

**NRS112 Foundations of Nursing in Acute I** 6 credits (2 lec, 3 lab, 6 lec lab hrs/wk)
Prerequisite(s): Instructor consent
Corequisite(s): ( NRS231 and NRS233 )
This course introduces the learner to application of clinical judgment for care of culturally diverse patients across the lifespan who are experiencing prevalent acute conditions or acute exacerbations of chronic conditions. Legal and ethical aspects of care are incorporated to guide evidence-based, patient-centered nursing care. Includes classroom and clinical learning experiences.
This course may be taken 1 time for credit.
Course classification: CTE

**NRS115 LPN Transition to OCNE** 6 credits (3 lec, 3 lab, 4 lec lab hrs/wk)
Prerequisite(s): Instructor consent
Corequisite(s): ( NRS231 and NRS233 )
This course introduces the learner to the framework of the SOCC and Oregon Consortium for Nursing Education (OCNE) curriculum including the OCNE competencies, benchmarks and the clinical judgment model. The student is introduced to the role and practice of the registered nurse. Concepts and applicability of the ANA Code of Ethics will be emphasized. Students will be introduced to evidenced-based care including levels of evidence. Concepts of health promotion, chronic care and acute care as applied to nursing practice will be explored. Case studies will be used to provide students opportunities to demonstrate critical thinking in the provision of patient care. The course includes classroom, silulation and lab learning experiences including evaluation of certain learning skills.
This course may be taken 1 time for credit.
Course classification: LDC

**NRS121 Nursing Concepts and Clinical Practice** 1 credit (2 lec lab hrs/wk)
Prerequisite(s): Instructor consent
Introduces concepts of the Southwestern Oregon Community College and OCNE nursing curriculum and reviews previously learned information and skills for students who have previous nursing education.
This course may be taken 1 time for credit.
Course classification: CTE

**NRS221 Found of Nrsg in Chronic Illness II and End of Life** 9 credits (5 lec, 3 lab, 6 lec lab hrs/wk)
Prerequisite(s): Instructor consent
This course builds on NRS 111, Foundations of Nursing in Chronic Illness 1. Chronic Illness 2 expands the student's clinical judgement related to chronic disease management, including symptom management, family care giving concerns, palliative care, and end of life concepts. The patient focus for this course may include chronic physical and mental health conditions, disabilities affecting functional status, as well as issues impacting family relationships. Ethical issues related to advocacy, self-determination and autonomy as well as diversity, equity and justice are explored. Legal considerations related to nursing practice with chronic health populations, such as those at end of life and experiencing mental health disorders are included. Cognitive, affective, and psychomotor skills associated with the assessment and management of increasingly complex comorbidities are demonstrated within the context of patient and/or family centered care.
This course may be taken 1 time for credit.
Course classification: CTE

**NRS222 Found of Nrsg in Acute Care II and End of Life** 9 credits (5 lec, 3 lab, 6 lec lab hrs/wk)
Prerequisite(s): Instructor consent
This course builds upon Nursing in Acute 1, with a focus on more complex conditions in patients across the lifespan. Learners will continue to apply clinical judgment, with a focus on culturally diverse patients who are experiencing acute, complex, rapidly changing, multisystem conditions and situations. Legal and ethical aspects of care are incorporated to guide evidence-based, patient-centered nursing care. Includes classroom and clinical learning experiences.
This course may be taken 1 time for credit.
Course classification: CTE

**NRS224 Scope of Practice/Integrated Practicum** 9 credits (2 lec, 21 lab hrs/wk)
Prerequisite(s): Instructor consent
This practicum course provides students with opportunities to apply theories and skills learned in previous nursing courses. It is designed to refine the clinical judgments, knowledge and skills necessary for safe and effective registered nurse practice, using a variety of evidence-based teaching and learning models. This course provides opportunities for analysis and reflection throughout the clinical experience and provides the student with evaluative criteria against which they can judge their own progress towards achieving course outcomes. Includes immersive clinical experience, seminar, self-directed study, focusing on the transition from the student role to the professional nursing practice role.
This course may be taken 1 time for credit.
Course classification: CTE

**NRS230 Clinical Pharmacology I** 3 credits (3 lec hrs/wk)
Prerequisite(s): Instructor consent
Corequisite(s): ( BI234 )
This course introduces the theoretical background that enables students to provide safe and effective care related to drugs and natural products to persons throughout the lifespan. It includes the foundational concepts of principles of pharmacology, as well as numerous classes of drugs. Students will learn to make selected clinical decisions in the context of nursing regarding using current, reliable sources of information, understanding of pharmacokinetics and pharmacodynamics, developmental physiologic considerations, monitoring and evaluating the effectiveness of drug therapy, teaching persons from diverse populations regarding safe and effective use of drugs and natural products, intervening to increase therapeutic benefits and reduce potential negative effects, and communicating appropriately with other health professionals regarding drug therapy. Drugs are studied by therapeutic or pharmacological class using an organized framework.
This course may be taken 1 time for credit.
Course classification: CTE

**NRS231 Clinical Pharmacology II** 3 credits (3 lec hrs/wk)
This course introduces the theoretical background that enables students to provide safe and effective care related to drugs and natural products to persons throughout the lifespan. It includes the foundational concepts of principles of pharmacology, as well as numerous classes of drugs. Students will learn to make selected clinical decisions in the context of nursing regarding using current, reliable sources of information, understanding of pharmacokinetics and pharmacodynamics, developmental physiologic considerations, monitoring and evaluating the effectiveness of drug therapy, teaching persons from diverse populations regarding safe and effective use of drugs and natural products, intervening to increase therapeutic benefits and reduce potential negative effects, and communicating appropriately with other health professionals regarding drug therapy. Drugs are studied by therapeutic or pharmacological class using an organized framework.
This course may be taken 1 time for credit.
Course classification: CTE

**NRS232 Pathophysiological Processes I** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( BI231 and BI232 and BI233 and BI234 )
Corequisite(s): ( BI234 )
This course introduces pathophysiological processes that contribute to many different disease states across the lifespan and human responses to those processes. It includes the foundational concepts of cellular adaptation, injury, and death; inflammation and tissue healing; fluid and electrolyte imbalances; and physiologic response to stressors and pain, as well as additional pathophysiological processes. Students will learn to make clinical decisions using critical thinking in the context of nursing regarding the use of current, reliable sources of pathophysiology information, selecting and interpreting focused nursing assessments based on knowledge of pathophysiological processes, teaching persons from diverse populations regarding pathophysiological processes, and communicating with other health professionals regarding pathophysiological processes.
This course may be taken 1 time for credit.
Course classification: CTE

**NRS233 Pathophysiological Processes II** 3 credits (3 lec hrs/wk)
This sequel to Pathophysiological Processes 1 continues to explore pathophysiological processes that contribute to disease states across the lifespan and human responses to those processes. Students will learn to make clinical decisions using critical thinking in the context of nursing regarding the use of current, reliable sources of pathophysiology information, selecting and interpreting focused nursing assessments based on knowledge of pathophysiological processes, teaching persons from diverse populations regarding pathophysiological processes, and communicating with other health professionals regarding pathophysiological processes. The course addresses additional pathophysiological processes not contained in Pathophysiological Processes 1.
This course may be taken 1 time for credit.
Course classification: CTE

# PHARMACY TECH (PHAR)

**PHAR100 Intro to Pharmacy: Practice and Law** 4 credits (4 lec hrs/wk)
This course introduces students to the career of Pharmacy Technician. It explores history, potential workplace options and personnel related to pharmaceutical services, including pharmacy ethics. A general overview of the knowledge base required for the occupation and an introduction to standard pharmacy references, federal & state law, is provided.
This course may be taken 1 time for credit.
Course classification: CTE

**PHAR105 Pharmacology I** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( AH111 )
This basic course introduces the student to generic and trade names of common therapeutic drugs. Drug categories and drug use in prevention of or interference with disease processes are discussed. Important contraindications, side effects, cautions, and interactions regarding drug use are included. The course also covers common nonprescription drugs.
This course may be taken 1 time for credit.
Course classification: CTE

**PHAR110 Pharmacology II** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( PHAR105 and PHAR115 and PHAR200 )
This basic course continues the student's introduction to generic and trade names of common therapeutic drugs. Drug categories and drug use in prevention of or interference with disease processes are discussed. Important contraindications, side effects, cautions, and interactions regarding drug use are included. The course also covers common nonprescription drugs.
This course may be taken 1 time for credit.
Course classification: CTE

**PHAR115 Pharmacy Calculations** 2 credits (2 lec hrs/wk)
Prerequisite(s): ( MTH65 )
This course reviews basic mathematics and includes the application of math concepts in the performance of certain pharmacy technician duties (and other health-care provider duties). It covers systems of weight, measure and temperature and the conversion from one system into another. The basics of retail accounting are introduced. Students develop the capabilities needed to calculate dosages, drug amount or volume, percent concentrations, milli-equivalents and intravenous infusion rates.
This course may be taken 1 time for credit.
Course classification: CTE

**PHAR180 Internship: Pharmacy** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore a variety of workplaces in which to apply that knowledge.
This course may be taken 12 times for credit.
Course classification: LDC

**PHAR200 Pharmacy Technician Procedures I** 4 credits
Prerequisite(s): ( PHAR100 )
This course is designed to provide students with the knowledge and skills needed in the performance of technical pharmacy tasks. These include: pharmacy operation, prescription processing, compounding and packaging, communication skills and emerging new pharmacy fields.
This course may be taken 1 time for credit.
Course classification: CTE

**PHAR205 Pharmacy Technician Procedures II** 4 credits
Prerequisite(s): ( PHAR100 and PHAR105 and PHAR115 and PHAR200 )
This course is designed to provide students with the knowledge and skills needed in the performance of advanced pharmacy tasks. These include hospital dispensing systems, long-term care pharmacy, nuclear and home infusion pharmacy, hospice and managed care pharmacy, federal pharmacy, aseptic technique, IV prep admixtures on oncology preparations.
This course may be taken 1 time for credit.
Course classification: CTE

**PHAR210 Pharmacy Records Management** 3 credits
Prerequisite(s): ( PHAR100 and PHAR105 and PHAR115 and PHAR200 )
This course is designed to provide knowledge and skill preparing, maintaining and storing a multiple of pharmacy records. The first two weeks of the course consists of HIPAA training for pharmacy technicians.
This course may be taken 1 time for credit.
Course classification: CTE

**PHAR280 CWE: Pharmacy** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore a variety of workplaces in which to apply that knowledge.
This course may be taken 12 times for credit.
Course classification: CTE

# PHILOSOPHY (PHL)

**PHL101 Introduction to Philosophy: Philosophical Problems** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( WR121Z )
Introduces students to the philosophical quest for wisdom for the purpose of personal transformation: To understand themselves, reality, and their place within it by exploring fundamental questions and problems of metaphysics (the study of the nature of reality) and epistemology (the study of knowledge and truth) from a cross-cultural perspective.
This course may be taken 1 time for credit.
Course classification: LDC

**PHL102 Ethics** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( WR121Z )
Investigates the nature of moral philosophy by examining ethical theories from a variety of cultural traditions as well as issues in applied ethics such as just war and pacifism, euthanasia, environmental ethics and cloning. Enables students to develop and reflect critically on their own ethical stance.
This course may be taken 1 time for credit.
Course classification: LDC

**PHL103 Intro to Logic and Critical Thnkg** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( WR121Z )
Focuses on improving critical reasoning skills in academic studies and daily life by examining the basic concepts of logic and critical thinking; the use of language; propaganda and doublespeak; and informal fallacies in academic arguments, editorials, letters to the editor, and advertising. Attention given to writing arguments and position papers.
This course may be taken 1 time for credit.
Course classification: LDC

**PHL180 Internship: Philosophy** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

**PHL211 Existentialism** 3 credits (3 lec hrs/wk)
From the turn of the 19th Century and through the 20th Century, a continued challenge to historical dialectics found voice through writers such as Dostoevsky, Nietzsche, Sartre, and Heidegger. These varied authors and ideas have been secured under the broad banner of Existentialism. This course will examine this varied and nuanced conceptual terrain via select existentialist writers to represent thematics topics such as meaning, freedom, authenticity, and despair while connecting how such concepts continue to inform our thinking.
This course may be taken 1 time for credit.
Course classification: LDC

**PHL280 CWE: Philosophy** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
This course offers career exploration and workplace experience within a widely defined number of supervised settings which provide professional experience in the field of philosophy.
This course may be taken 12 times for credit.
Course classification: LDC

# PHYSICAL EDUCATION (PE)

**PE131 Intro to Health & Physical Ed** 3 credits (3 lec hrs/wk)
This course provides an orientation and foundational understanding of the academic disciplines and professions that lie beneath the umbrella of physical education, fitness, and sport. Students learn the underpinnings of historical and contemporary development in the disciplines and broaden their understanding of opportunities available within related professions.
This course may be taken 1 time for credit.
Course classification: LDC

**PE185AB Baseball Advanced** 1 credit (3 lab hrs/wk)
This course is designed to increase students' knowledge of the game; skills offensive and defensive strategies. Offensive strategies will revolve around executing various plays to move runners into scoring position and then score runs. Defensive strategies will emphasize limiting base runners limiting their advancement and eliminating them through various defensive plays.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185AE Indoor Rock Climbing Advanced** 1 credit (3 lab hrs/wk)
Prerequisite(s): Instructor consent
This class will present the level content, method and safety of indoor rock climbing necessary for the advanced student. Students will learn to use and implement an advanced level of climbing equipment and knots. Emphasis will be placed on the continued acquisition of skills and techniques necessary for indoor rock climbing including advanced climbing techniques and the development of climbing routes.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185AF Indoor Rock Climbing Beginning** 1 credit (3 lab hrs/wk)
This class will present the beginning level content, method and safety of indoor rock climbing. Emphasis will be placed on the acquisition of beginning level skills, techniques and equipment necessary for indoor rock climbing.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185AG Indoor Rock Climbing Intermediate** 1 credit (3 lab hrs/wk)
This class will present the level content, method and safety of indoor rock climbing necessary for the intermediate student. Students will learn to use and implement an intermediate level of climbing equipment and knots. Emphasis will be placed on the continued acquisition of skills and techniques necessary for indoor rock climbing.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185AT Track Advanced** 1 credit (3 lab hrs/wk)
This course will focus on expanding the students knowledge base relating to the latest technical information on track and field. Students will work with instructors in analyzing the biomechanical aspects of training for track. Students will make analytical comparisons of their performance compared to those of world class athletes.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185BB Baseball Beginning** 1 credit (3 lab hrs/wk)
This course offers an introduction to the game of baseball. Also the necessary skills, drills, fundamentals and strategies for baseball players will be addressed.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185BF Basketball Advanced** 1 credit (3 lab hrs/wk)
Advanced Basketball is the course sequential to Intermediate Basketball and is designed to provide the student with opportunities to develop and use the basic individual and group fundamental skills, techniques, tactics, concepts, rules and philosophies acquired in the previous course.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185BG Basketball Beginning** 1 credit (3 lab hrs/wk)
A physical education class that is designed to teach mechanical principles and beginning skills of basketball.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185BH Basketball Intermediate** 1 credit (3 lab hrs/wk)
Intermediate Basketball is the course sequential to Beginning basketball and is designed to provide the student with additional instruction to develop and use the basic individual and group fundamental skills, techniques, tactics, concepts, rules and philosophies acquired in the previous course.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185BL Cross Country Beginning** 1 credit (3 lab hrs/wk)
Student will learn methods of training, strategy, and techniques for cross country running. Competitive experience will be offered as part of the class.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185BM Cross Country Intermediate** 1 credit (3 lab hrs/wk)
Student will learn advanced methods of training, strategies, and techniques for cross country running. Competitive experience will be offered as part of the course.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185BN Softball Advanced** 1 credit (3 lab hrs/wk)
This course is designed to introduce students to an advanced level of development in the fundamentals of fastpitch softball. Students will develop their knowledge and understanding of softball skills and techniques, game history and characteristics, and skill development. The course is designed to help students develop beyond the basic and intermediate skills and techniques of fastpitch softball.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185BO Softball Beginning** 1 credit (3 lab hrs/wk)
This course is designed to introduce students to basic skill development in the fundamentals of softball. Students will develop their knowledge and understanding of softball skills and techniques, game history and characteristics, and skill development. The course is designed to help students develop the basic skills and techniques to participate in games at an acceptable level of competence.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185BP Softball Intermediate** 1 credit (3 lab hrs/wk)
This course is designed to introduce students to an intermediate level of development in the fundamentals of fastpitch softball. Students will develop their knowledge and understanding of softball skills and techniques, game history and characteristics, and skill development. The course is designed to help students develop beyond the basic skills and techniques of fastpitch softball in order to participate in games at an acceptable level of competence.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185BQ Weight Training Beginning** 1 credit (3 lab hrs/wk)
Students will be introduced to basic methods and techniques of heavy resistance exercises. Weightlifting will be used to increase muscular strength, endurance, and flexibility.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185BR Weight Training Intermediate** 1 credit (3 lab hrs/wk)
Students will be taught intermediate methods and techniques of heavy resistance exercises. Weightlifting will be used to increase muscular strength, endurance, and flexibility. Preparation for athletic competition in weightlifting and other sports will be offered.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185BS Advanced Weight Training** 1 credit (3 lab hrs/wk)
The study of advanced weight training techniques. The course is designed to give the student experience in advanced lifting techniques and provide them with a more rigorous workout than intermediate or beginning.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185BT Track Beginning** 1 credit (3 lab hrs/wk)
Beginning Track is a class that will focus on the execution of basic track and field skills needed to perform running and field events. The use of handouts and film analysis of current track and field techniques as well as performing various drills will be used to improve the student's knowledge techniques.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185EA Esports Advanced** 1 credit (3 lab hrs/wk)
This course offers and introduces the advanced fundamentals of the sport including skills, strategies, fitness, health and social behavior necessary to participate at the collegiate level.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185EB Esports Beginning** 1 credit (3 lab hrs/wk)
This course offers and introduces the basic fundamentals of Esports including skills, strategies, equipment, health and social behavior.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185EI Esports Intermediate** 1 credit (3 lab hrs/wk)
This course develops and builds upon the basic fundamentals of the sport including skills, strategies, health and social behavior.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185GA Golf Advanced** 1 credit (3 lab hrs/wk)
Advanced Golf is part of the physical education curriculum. This course continues the process of skill development, acquired knowledge, and appreciation of the sport of golf started in Beginning Golf and enhanced by Intermediate Golf. The class is designed as an individual activity so that the students may develop an appreciation of the recreational aspects of golf. Advanced Golf will focus on skills needed to lower the participants handicap, teach them to read situations on the course, and perform basic golf skills with a higher degree of accuracy.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185GB Golf Beginning** 1 credit (3 lab hrs/wk)
Golf is a part of the physical education curriculum. This course introduces students to basic skill development in the fundamentals of golf. Students will develop their knowledge and understanding of golf skills, game characteristics, and skill development. The course is designed as an individual activity so the students may develop an appreciation of the recreational aspects of golf.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185GI Golf Intermediate** 1 credit (3 lab hrs/wk)
Golf is a part of the physical education curriculum. This course continues the process of skill development, acquired knowledge, and appreciation of the sport of golf started in Beginning Golf. The class is designed as an individual activity so that the students may develop an appreciation of the recreational aspects of golf.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185IB Baseball Intermediate** 1 credit (3 lab hrs/wk)
This course will add to the knowledge, skills, and drills emphasized in the beginning class. More emphasis will be placed on strategy; both offensive and defensive.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185IT Track Intermediate** 1 credit (3 lab hrs/wk)
Intermediate Track will focus on applying the latest technical information related to track and field to the students actual performance and daily practice. Students will be videotaped and analyzed to recognize technical weakness and strengths. The instructor and student will use current information to improve performance.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185S1 Swimming Beginning** 1 credit (3 lab hrs/wk)
The course is designed to provide the student with the opportunity to improve competitive swimming skills and become proficient at all competitive swimming strokes. In addition, students will begin to explore concepts of the physiology of swimming and training methodology. In addition, opportunities are provided for swim conditioning, so the student's fitness level should improve. Students will be asked to pass a swim test to participate in this course.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185S2 Swimming Intermediate** 1 credit (3 lab hrs/wk)
The course is designed to provide the student with the opportunity to gain an intermediate knowledge of the sport, its history, equipment and facilities, safety procedures, rules, terminology, and to improve the fundamental skills of all four competitive strokes in order to become proficient at an intermediate competitive swimming level. In addition, opportunities are provided for swim conditioning, so the student's fitness level should improve. Students must pass an advanced swim test to participate in this course.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185S3 Swimming Advanced** 1 credit (3 lab hrs/wk)
Prerequisite(s): ( PE185S2 )
The course is designed to provide the student with advanced knowledge of the sport, the physiology of how the body can react and adapt to training as well as gaining practical knowledge on how to develop a training plan and progressions to bring about improvements. Students will also develop the advanced skills of competitive swimming in order to become proficient at an advanced swimming level. In addition, opportunities are provided for swim conditioning, so the student's fitness level should improve. Students must pass an advanced swim test to participate in this course.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185SA Soccer: Advanced** 1 credit (3 lab hrs/wk)
This is an advanced course emphasizing the highest level of technique and tactics of the sport of soccer. This class will present the content method and safety of advanced soccer. Students will learn to use and implement a variety of advanced soccer skills and techniques. Emphasis will be placed on the acquisition of advanced skills and techniques necessary for advanced soccer.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185SB Soccer Beginning** 1 credit (3 lab hrs/wk)
This is an introductory course emphasizing the fundamentals of beginning soccer. This class will present the content method and safety of beginning soccer. Students will learn to use and implement a variety of beginning soccer skills and techniques. Emphasis will be placed on the acquisition of basic skills and techniques necessary for beginning soccer.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185SI Soccer Intermediate** 1 credit (3 lab hrs/wk)
This is an intermediate course emphasizing the fundamentals of intermediate soccer. This class will present the content method and safety of intermediate soccer. Students will learn to use and implement a variety of intermediate soccer skills and techniques. Emphasis will be placed on the acquisition of intermediate skills and techniques necessary for intermediate soccer.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185SP Self-Paced Fitness** 1 credit (3 lab hrs/wk)
Introduces a self paced physical exercise program encompassing cardiovascular conditioning, strength training, and flexibility exercises. Incorporates individual and independent physical exercises and requires tracking exercises in a log/journal. This is a Hybrid Course that may meet at the beginning and end of the term for pre/post evaluation. SWOCC email addresses are required and weekly submission of work to the instructor via myLakerLink.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185VA Volleyball Advanced** 1 credit (3 lab hrs/wk)
Advanced Volleyball is for the student that has completed beginning and intermediate volleyball and would like to focus on the advanced skills and strategies related to volleyball. Students will work on techniques related to serving, receiving, blocking, and strategic aspects of Volleyball. Advanced Volleyball will also include strength and conditioning exercises to enhance the players physical abilities.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185VB Volleyball Beginning** 1 credit (3 lab hrs/wk)
Volleyball is part of the physical education curriculum. This course is designed to introduce students to basic skill development in the fundamentals of volleyball. Students will develop their knowledge and understanding of volleyball skills, game history, and characteristics as well as skill development. The course is designed to help students develop a lifelong interest in playing the game of volleyball.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185VI Volleyball Intermediate** 1 credit (3 lab hrs/wk)
Volleyball is part of the physical education curriculum. This course continues the process of skill development, acquired knowledge, and appreciation of the sport of volleyball started in Beginning Volleyball. The class is designed as a group activity so that students may develop and perfect their skills and knowledge of the game to better appreciate the sport as a lifetime physical activity.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185WA Wrestling Advanced** 1 credit (3 lab hrs/wk)
This is an advanced course emphasizing the fundamentals of advanced wrestling. This class will present the content, method, and safety of advanced wrestling. Students will learn to use and implement a variety of advanced wrestling skills and techniques. Emphasis will be placed on the acquisition of advanced skills and techniques necessary for advanced wrestling.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185WB Wrestling Beginning** 1 credit (3 lab hrs/wk)
This is an introductory course emphasizing the fundamentals of beginning wrestling. This class will present the content, method, and safety of beginning wrestling. Students will learn to use and implement a variety of beginning wrestling skills and techniques. Emphasis will be placed on the acquisition of basic skills and techniques necessary for beginning wrestling.
This course may be taken 3 times for credit.
Course classification: LDC

**PE185WI Wrestling Intermediate** 1 credit (3 lab hrs/wk)
This is an intermediate course emphasizing the fundamentals of intermediate wrestling. This class will present the content method and safety of intermediate wrestling. Students will learn to use and implement a variety of intermediate wrestling skills and techniques. Emphasis will be placed on the acquisition of intermediate skills and techniques necessary for intermediate wrestling.
This course may be taken 3 times for credit.
Course classification: LDC

**PE210 Theory Of Coaching** 3 credits (3 lec hrs/wk)
A survey of issues encountered by coaches in all sports. Topics will include, but not be limited to communication with players, colleagues and administration, ethical issues and responsibilities, coaching philosophies, relations with media and community, time management, coach and athlete motivation, mental training skills, and equipment and facilities management.
This course may be taken 1 time for credit.
Course classification: LDC

**PE231 Wellness for Life** 3 credits (3 lec hrs/wk)
Physical assessment techniques to assess present strength, flexibility, and cardiovascular health will be administered in this course. Students will receive informational tools needed to facilitate positive change in their present state of fitness. Basic blood work will assess cholesterol, glucose, and other results. Health issues and concepts are also covered.
This course may be taken 1 time for credit.
Course classification: LDC

**PE270 Sport and Exercise Psychology** 3 credits (3 lec hrs/wk)
The course is designed to provide students the knowledge to understand the basics of psychological skills to improve physical performance in others or themselves. The course would be well suited for athletes, coaches or exercise leaders.
This course may be taken 1 time for credit.
Course classification: LDC

**PE280 CWE: Physical Education** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Students will gain real life experience in the various roles and responsibilities related to the field of Physical Education. Students will participate in a variety of supervised settings that are applicable to the development of the student as a professional in Health and Physical Education field including; areas related to life time wellness, fitness and conditioning as well as the educational aspect such as teaching.
This course may be taken 12 times for credit.
Course classification: LDC

# PHYSICS (PH)

**PH180 Internship: Physics** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

**PH201 General Physics I: Mechanics** 5 credits (4 lec, 3 lab hrs/wk)
Prerequisite(s): ( MTH112Z )
Algebra-based study of physics principles. This is the first course in a three course sequence. Concepts of mechanics including kinematics, forces, equilibrium, energy, momentum, conservation laws. Includes laboratory activities. Must be taken in sequence.
This course may be taken 1 time for credit.
Course classification: LDC

**PH202 General Physics II: Heat, Waves, Relativity** 5 credits (4 lec, 3 lab hrs/wk)
Prerequisite(s): ( PH201 )
Study of the physical properties and interactions of systems. Second course of the sequence focuses on fluids, thermodynamics, waves, and relativity.
This course may be taken 1 time for credit.
Course classification: LDC

**PH203 Gen Physics III: Elect & Magnetism** 5 credits (4 lec, 3 lab hrs/wk)
Prerequisite(s): ( PH202 )
Study of the physical properties and interactions of electricty and magnetism. Includes labortatory activities. Must be taken in sequence.
This course may be taken 1 time for credit.
Course classification: LDC

**PH211 General Physics with Calculus I** 5 credits (4 lec, 3 lab hrs/wk)
Prerequisite(s): ( MTH112Z )
Study of the physical properties and interactions of mechanics including kinematics, forces, energy and momentum. For science and engineering students. Includes laboratory activities. Must be taken in sequence.
This course may be taken 1 time for credit.
Course classification: LDC

**PH212 General Physics with Calculus II** 5 credits (4 lec, 3 lab hrs/wk)
Prerequisite(s): ( PH211 )
Corequisite(s): ( MTH252Z )
Study of the physical properties and interactions of fluids, sound, heat, light, and optics. For science and engineering students. Includes laboratory activities. Must be taken in sequence
This course may be taken 1 time for credit.
Course classification: LDC

**PH213 General Physics with Calculus III** 5 credits (4 lec, 3 lab hrs/wk)
Prerequisite(s): ( MTH252Z and PH212 )
Study of the physical properties and interactions of electricity and magnetism. For science and engineering students. Includes laboratory activities. Must be taken in sequence.
This course may be taken 1 time for credit.
Course classification: LDC

**PH280 CWE: Physics** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical worksite exposure to applied science, which provides students an opportunity to explore potential career paths in science while gaining practical experience in applying classroom science theory.
This course may be taken 12 times for credit.
Course classification: LDC

# POLITICAL SCIENCE (PS)

**PS180 Internship: Political Science** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

**PS201 American Government: Political Institutions** 3 credits (3 lec hrs/wk)
An introduction to American political institutions, processes and ideology, in relation to politics and public policy.
This course may be taken 1 time for credit.
Course classification: LDC

**PS202 American Government: Policy Issues** 3 credits (3 lec hrs/wk)
This course continues the study of civil liberties and practical application of powers of the federal government to society's problems. Current issues in American politics and the application of federal government powers to society's problems will be addressed.
This course may be taken 1 time for credit.
Course classification: LDC

**PS203 Local Politics and Government** 3 credits (3 lec hrs/wk)
This course introduces the student to United States state and local governments with comparative political behavior in states and communities. The course defines and discusses the political and institutional processes by which state and local governments make policy and law. The course also examines the role of state and local governments within the federal system of government.
This course may be taken 1 time for credit.
Course classification: LDC

**PS205 International Relations: US Foreign Policy in the 20th Century** 3 credits (3 lec hrs/wk)
The course focuses on the development of US Foreign Policy within the 20th Century with an emphasis on past precedents, new challenges, and how America's increasing economic interconnectedness with our neighbors has changed our policies. The course uses the world wars and the Cold War as major events which have shaped American Foreign Policy and continue to do so.
This course may be taken 1 time for credit.
Course classification: LDC

**PS280 CWE: Political Science** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
This course offers career exploration and workplace experience within a widely defined number of supervised settings which will provide professional experience in the field of political science, political organizing, and campaigning.
This course may be taken 12 times for credit.
Course classification: LDC

# PSYCHOLOGY (PSY)

**PSY100 Introduction to Psychology** 4 credits (4 lec hrs/wk)
This course is a survey of psychological perspectives into human behavior. It introduces the student to the overall field of psychology to prepare them for advanced study in psychology. The course is designed to briefly touch on the major tenants of the discipline. This will include a brief description of history and scientific methods and biopsychosocial aspects of human behavior. The major emphasis will be on the practical application of varied topics.
This course may be taken 1 time for credit.
Course classification: LDC

**PSY180 Internship: Psychology** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

**PSY201Z Introduction to Psychology I** 4 credits (4 lec hrs/wk)
Introduction to the science and application of psychology. Emphasis will be placed on psychological concepts, theories, and principles related to: Research Methods, Behavioral Neuroscience, Consciousness, Sensation/Perception, Learning, Memory, Thinking and Intelligence, and related topics.
This course may be taken 1 time for credit.
Course classification: LDC

**PSY202Z Introduction to Psychology II** 4 credits (4 lec hrs/wk)
Introduction to the science and application of psychology. Emphasis will be placed on psychological concepts, theories, and principles related to: Personality, Social Psychology, Health and Well-Being, Motivation and Emotion, Disorders, Therapies, Lifespan Development, and related topics.
This course may be taken 1 time for credit.
Course classification: LDC

**PSY216 Social Psychology** 3 credits (3 lec hrs/wk)
Social Psychology is the scientific study of social variables on an individual's behavior, attitudes, perceptions, and motives. In this course, the learner will have the opportunity to specifically explore how we distort reality. They will be able to evaluate their self control with the respect to others along with their levels of conformity and obedience. They can test strong emotions such as altruism, aggression and passion in different scenarios. The course ends with a look at prejudice and the importance of great leadership within groups
This course may be taken 1 time for credit.
Course classification: LDC

**PSY228 Introduction to Social Science Research** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( MTH65 )
This course is an introduction to the basic research methods used by social scientists. The course includes an introduction to statistical analysis, observational studies, survey research, and experimental design.
This course may be taken 1 time for credit.
Course classification: LDC

**PSY231 Human Sexuality** 3 credits (3 lec hrs/wk)
This course is designed to help students explore their attitudes and feelings regarding human sexuality. It will promote an open examination of various dimensions of sexual behaviors and attitudes in a safe, judgement-free classroom environment.
This course may be taken 1 time for credit.
Course classification: LDC

**PSY232 Psychology of Humor** 3 credits (3 lec hrs/wk)
This course explores the psychological underpinnings of humor. It includes a theoretical discussion of humor from research in cognitive, social, biological and developmental psychology. It also explores practical ways to create and implement humor at home, in the workplace, and other personal encounters. The goal is to enhance both mental and physical health.
This course may be taken 1 time for credit.
Course classification: LDC

**PSY237 Life Span Development** 3 credits (3 lec hrs/wk)
Designed to survey the major principles of behavior and patterns of change in people over the life span. Revolves around the area of development in physical, intellectual, social, personality and cross-cultural diversity for infants, children, adolescents, adults and the elderly. Within the psychological framework, students will be able to research and apply development concepts to relevant problems in daily life.
This course may be taken 1 time for credit.
Course classification: LDC

**PSY239 Introduction to Abnormal Psychology** 3 credits (3 lec hrs/wk)
Discusses the diagnosis, etiology and therapy of emotional, disturbances and behavioral disorders.
This course may be taken 1 time for credit.
Course classification: LDC

**PSY243 Drugs and Behavior** 3 credits (3 lec hrs/wk)
This course is a basic introduction to the principles of drug action on the mind and body and the relationship of substance abuse to crime. Drug metabolism and psychopharmacological research findings on legal and illicit drugs are addressed including drug effects and theories of abuse. Treatment issues and prevention models are discussed in relation to diverse cultures, lifestyles, gender, age, and the needs of people with disabilities.
This course may be taken 1 time for credit.
Course classification: LDC

**PSY280 CWE: Psychology** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
This course offers career exploration and workplace experience within a widely defined number of supervised settings which provide professional experience in the field of psychology.
This course may be taken 12 times for credit.
Course classification: LDC

# SOCIOLOGY (SOC)

**SOC100 Introduction to Diversity, Equity, and Inclusion** 1 credit
This course provides an introduction to common social categorizations, the concept of intersectionality, and advantages/disadvantages one might experience based on membership in various social categorizations. This class provides an opportunity to have open and honest conversations about these topics in a place that is safe to ask questions and make mistakes. The goal of this class is for students to leave with a better understanding of how individuals' multiple identities impact their lived experiences.
This course may be taken 1 time for credit.
Course classification: LDC

**SOC180 Internship: Sociology** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options in the field of sociology.
This course may be taken 12 times for credit.
Course classification: LDC

**SOC204Z Introduction to Sociology** 4 credits
Prerequisite(s): ( WR90R )
Introduces the central concepts, theories, and methods that define the sociological approach to investigating the social forces that shape our lives. Topics may include social structure, culture, socialization, race, class, gender, sexuality, and inequality.
This course may be taken 1 time for credit.
Course classification: LDC

**SOC205Z Social Change and Institutions** 4 credits
Prerequisite(s): ( WR90R )
Sociological analysis of social institutions, such as family, education, health care, the economy, and the state. Includes an examination of connections among institutions and their impact on patterns of inequality and individual outcomes. Examines the forces and dynamics behind social change, such as social movements, culture, economic forces, technologies, and the environment.
This course may be taken 1 time for credit.
Course classification: LDC

**SOC206Z Social Problems** 4 credits
Prerequisite(s): ( WR90R )
Applies the sociological perspective to the study of social problems, including their social construction, causes, and consequences. Explores the complexities surrounding their solutions, such as how solutions are socially constructed and policy proposals from sociologists and social movements. Topics may include poverty, discrimination, interpersonal violence, crime, addiction, ecological crises, war/global conflict, and health inequality.
This course may be taken 1 time for credit.
Course classification: LDC

**SOC208 Sociology of Sport** 3 credits (3 lec hrs/wk)
This course discusses identification and analysis of social problems in relation to sport and the world. Topics include (but are not limited to) the following: sport and culture, sport and socialization, sport and race, sport and gender, sport and collective behavior, sport and social behavior with focus on feasible solutions.
This course may be taken 1 time for credit.
Course classification: LDC

**SOC210 Marriage and Family** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( WR90R )
Examines intimate relationships, courtship, marriage and family patterns, old, new, and unconventional. The course focuses on how relationships are built, maintained, and change over time, including analysis of love, sexuality, children, conflict, divorce, blended families, and the ways in which race, class, gender, and social policies shape family conditions.
This course may be taken 1 time for credit.
Course classification: LDC

**SOC213 Racial and Ethnic Relations** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( WR90R )
The course extensively discusses the nature of the relationships among racial and ethnic groups in America and in societies around the world. Explores major topics such ethnic stratification, prejudice and discrimination, assimilation and pluralism, multiculturalism and current trends in intergroup relations.
This course may be taken 1 time for credit.
Course classification: LDC

**SOC218 Sociology of Gender** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( WR90R )
This course provides a sociological analysis of gender relations within and beyond the United States. We explore a range of topics, from the social construction of gender and everyday forms of gender socialization to the economic and political structures through which gendered inequalities are maintained and reinforced. We critically examine how gender categories have been challenged and contested over time, as well as the changing meanings and practices of feminism in historical context. And, finally, we employ intersectional and global perspectives to gain a better understanding of how gendered meanings and experiences vary across time and space.
This course may be taken 1 time for credit.
Course classification: LDC

**SOC228 Environmental Sociology** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( WR90R )
This course examines human-nature interactions in the context of global social, economic, and political change. We explore the social and historical factors that have shaped environmental challenges (including environmental degradation and inequality) as well as efforts to promote ecological sustainability. Relations of power shaped by economic, institutional, and political systems, as well as those conditioned by race, class, gender, and nationality will be analyzed in the context of global environmental change.
This course may be taken 1 time for credit.
Course classification: LDC

**SOC250 Field Studies - Sociology** 3 credits (3 lec hrs/wk)
This course provides students with hands on experience conducting social science research in a field setting. Fieldsites will vary annually and may include opportunities for international travel. Students will study a range of topics in the respective locations including rural and urban livelihood strategies, ecological sustainability, and efforts in achieving social and economic justice. Research will be conducted collaboratively with international students, providing Southwestern students the opportunity to interact with and learn from people with diverse cultural backgrounds.
This course may be taken 1 time for credit.
Course classification: LDC

**SOC280 CWE: Sociology** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
This course offers career exploration and workplace experience within a widely defined number of supervised settings in the field of sociology. This course may be taken 12 times for credit.
Course classification: LDC

# SPANISH (SPAN)

**SPAN101 First Year Spanish** 4 credits (4 lec hrs/wk)
Introduces the written and spoken language of Spanish-speaking people. Includes pronunciation, grammar, vocabulary, and comprehension. Emphasizes speaking, listening comprehension, reading comprehension and writing. Must be taken in sequence.
This course may be taken 1 time for credit.
Course classification: LDC

**SPAN102 First Year Spanish** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( SPAN101 )
Introduces the written and spoken language of Spanish-speaking people. Includes pronunciation, grammar, vocabulary, and comprehension. Emphasizes speaking, listening comprehension, reading comprehension and writing. Must be taken in sequence.
This course may be taken 1 time for credit.
Course classification: LDC

**SPAN103 First Year Spanish** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( SPAN102 )
Introduces the written and spoken language of Spanish-speaking people. Includes pronunciation, grammar, vocabulary, and comprehension. Emphasizes speaking, listening comprehension, reading comprehension and writing. Must be taken in sequence.
This course may be taken 1 time for credit.
Course classification: LDC

**SPAN201 Second Year Spanish** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( SPAN103 )
Continues the review and expansion of language, grammar, conversation, composition and culture. Emphasizes speaking, listening comprehension, reading comprehension and writing. Must be taken in sequence.
This course may be taken 1 time for credit.
Course classification: LDC

**SPAN202 Second Year Spanish** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( SPAN201 )
Continues the review and expansion of language, grammar, conversation, composition and culture. Emphasizes speaking, listening comprehension, reading comprehension and writing. Must be taken in sequence.
This course may be taken 1 time for credit.
Course classification: LDC

**SPAN203 Second Year Spanish** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( SPAN202 )
Continues the review and expansion of language, grammar, conversation, composition and culture. Emphasizes speaking, listening comprehension, reading comprehension and writing. Must be taken in sequence.
This course may be taken 1 time for credit.
Course classification: LDC

# STATISTICS (STAT)

**STAT243Z Elementary Statistics I** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( MTH105Z ) or ( MTH95 )
A first course in statistics focusing on the interpretation and communication of statistical concepts. Introduces exploratory data analysis, descriptive statistics, sampling methods and distributions, point and interval estimates, hypothesis tests for means and proportions, and elements of probability and correlation. Technology will be used when appropriate.
This course may be taken 1 time for credit.
Course classification: LDC

# THEATER (TA)

**TA141 Acting I** 3 credits (3 lec hrs/wk)
Studies the methods, techniques, and theory of acting as an art form with an emphasis on the theories of Stanislavski. Performance of laboratory exercises, improvisations, and short scenes and monologues from plays are the basic teaching approaches.
This course may be taken 1 time for credit.
Course classification: LDC

**TA142 Acting II** 3 credits (3 lec hrs/wk)
Studies the methods, techniques and theory of acting as an art form. Performance of laboratory exercises, extended scenes from plays, and a Shakespearean monologue are the basic teaching approaches.
This course may be taken 1 time for credit.
Course classification: LDC

**TA143 Acting Iii** 3 credits (3 lec hrs/wk)
Studies the methods, techniques and theory of acting as an art form. Performance of laboratory exercises and scene cuttings, a one act play, and a classical monologue are the basic teaching approaches.
This course may be taken 1 time for credit.
Course classification: LDC

**TA144 Improvisational Theatre I** 3 credits
Students learn theater games, scene development, and role-playing with a focus on discovering the ingredients necessary for creative process and flow. Participants put their creative energy into action, address inhibitions which limit them in personal interaction, work situations and team building. Students learn to expand their imaginations, and sharpen their wits. This class is not just for actors but for anyone wanting to become more spontaneous and creative.
This course may be taken 1 time for credit.
Course classification: LDC

**TA153 Rehearsal/Performnc** 3 credits (3 lec hrs/wk)
Training in theatre production through intensive study and rehearsal of a play for public performance. Includes stage crew production people and performers.
This course may be taken 1 time for credit.
Course classification: LDC

# WATER QUALITY TREATMENT (WQT)

**WQT226 Wastewater Treatment I - Liquids** 3 credits (3 lec hrs/wk)
This course is the first in the series on the fundamentals of wastewater treatment, with focus on liquid treatment. Course will help students prepare for the Level I Wastewater Treatment Operator Certification exam.
This course may be taken 1 time for credit.
Course classification: CTE

**WQT227 Wastewater Treatment II - Solids** 3 credits (3 lec hrs/wk)
Prerequisite(s): ( WQT226 )
This course is the second in the series on the fundamentals of wastewater treatment, focusing on solids handling and support systems. Course content will help students prepare for the Level I Wastewater Treatment Operator Certification exam.
This course may be taken 1 time for credit.
Course classification: CTE

**WQT228 Wastewater Collection Systems** 3 credits (3 lec hrs/wk)
Course introduces the basics of wastewater and storm water collection systems. Primary focus will be pipe sizing, general system components, installation, inspection, operation and maintenance techniques. Elementary street construction and inspections are also studied in conjunction with storm drainage. Field trips may be made to existing facilities and work under construction. Course prepares students for Wastewater Collection Systems Operator Level I State examination.
This course may be taken 1 time for credit.
Course classification: CTE

**WQT260 Water Treatment** 3 credits (3 lec hrs/wk)
Covers the fundamentals of water treatment facilities, including operation and maintenance of facilities. Prepares students for Water Treatment Operator Level I State examination.
This course may be taken 1 time for credit.
Course classification: CTE

**WQT261 Water Distribution** 4 credits (4 lec hrs/wk)
This course covers the fundamentals of operation and maintenance of water distribution systems. The fundamental properties of fluid flows and pressures in a closed system are addressed, in general. Course is designed to prepare students for the Grade I Water Distribution Operator examination.
This course may be taken 1 time for credit.
Course classification: CTE

**WQT280 CWE: Water Quality Treatment** 1-12 credits
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore a variety of workplaces in which to apply that knowledge.
This course may be taken 24 times for credit.
Course classification: CTE

# WELDING (WLD)

**WLD100 Cutting Processes** 3 credits (1 lec, 4 lec lab hrs/wk)
Emphasizes oxy-acetylene hand cutting and mechanized cutting with track burner, introduction to plasma arc cutting, oxy-fuel cutting and scarfing, and air arc gouging. Topics include brazing, and oxy-acetylene welding in flat, and efficient use of hand and machine oxy-acetylene torch cutting, and industrial safety.
This course may be taken 1 time for credit.
Course classification: CTE

**WLD101 Shielded Metal Arc Welding** 6 credits (2 lec, 8 lec lab hrs/wk)
This course covers shielded metal arc welding (SMAW) including safety, arc welding fundamentals, polarity, amperage ranges, weld techniques, weld defects, causes and cures. Students learn through lecture, demonstration and practical application of skills and concepts. Lab activities will cover flat, horizontal, vertical and overhead welds using E6010 and E7018 electrodes.
This course may be taken 1 time for credit.
Course classification: CTE

**WLD102 Lab A** 3 credits (1 lec, 4 lec lab hrs/wk)
Prerequisite(s): ( WLD100 and WLD101 )
Development of the student's ability to weld on a variety of metals using a variety of welding processes. The skill development of the course will include print reading and interpretation, material layout and cutting, joint preparation, process determination, machine setup, welding and inspection of final project. Emphasis will be on welding techniques that meet or exceed industrial standards.
This course may be taken 1 time for credit.
Course classification: CTE

**WLD103 Gas Metal Arc Welding** 3 credits (1 lec, 4 lec lab hrs/wk)
Prerequisite(s): ( WLD100 and WLD101 )
Covers gas metal arc welding (GMAW) process. The semi-automatic gas metal arc welding (GMAW) process and manual welding techniques will be presented. Equipment needs, setup, joint design, filler metals, shielding gases, welding techniques, along with safety will be stressed. Proper joint design, preparation, and welding techniques. Lab activities will cover all position butt and fillet welds on mild steel, and basic techniques on aluminum and stainless steel.
This course may be taken 1 time for credit.
Course classification: CTE

**WLD104 Flux Cored Arc Welding** 3 credits (1 lec, 4 lec lab hrs/wk)
Prerequisite(s): ( WLD100 and WLD101 )
Covers flux cored arc welding (FCAW) process. The semi-automatic flux cored arc welding (FCAW) process, both with and without shielding gas, and manual welding techniques will be presented. Equipment needs, setup, joint design, filler metals, shielding gases, welding techniques, along with safety, will be stressed. Proper joint design, preparation, and welding to American Welding Society (AWS) certification standards and testing methods will be emphasized. Lab activities will cover all position welds.
This course may be taken 1 time for credit.
Course classification: CTE

**WLD105 Pipe Fitting and Welding I** 3 credits (1 lec, 4 lec lab hrs/wk)
Prerequisite(s): ( WLD100 ) or ( WLD101 )
Introduces pipe layout, fitting, and arc welding covering basic pipe and piping information, basic pipe layout practices, and basic pipe welding techniques. Safety, quality, and proper weld technique will be stressed according to industry standards for appearance and weld soundness.
This course may be taken 1 time for credit.
Course classification: CTE

**WLD106 Welding Lab B** 3 credits (1 lec, 4 lec lab hrs/wk)
Prerequisite(s): ( WLD102 )
Continuation of WLD*105 in developing the student's ability to weld on a variety of metals using a variety of welding processes. The skill development of the course will include print reading and interpretation, material layout and cutting, joint preparation, process determination, machine setup, welding and inspection of final project. Emphasis will be on welding techniques that meet or exceed industrial standards.
This course may be taken 1 time for credit.
Course classification: CTE

**WLD107 Gas Tungsten Arc Welding** 3 credits (1 lec, 4 lec lab hrs/wk)
Covers all aspects of manual gas tungsten arc welding (GTAW) from safety and process operation through welding techniques and applications. Emphasis will be on safety, equipment setup, manual welding techniques, and procedures for both ferrous and non-ferrous materials, quality control and inspection, and industrial codes and procedures.
This course may be taken 1 time for credit.
Course classification: CTE

**WLD110 Certification Prep For 1st Year** 3 credits (1 lec, 4 lec lab hrs/wk)
Prerequisite(s): ( WLD101 )
Corequisite(s): ( WLD103 and WLD104 )
Provides experienced welders with lab time for practice in basic welding techniques for skills upgrading and/or certification. The instructor is available for technical assistance.
This course may be taken 1 time for credit.
Course classification: CTE

**WLD150 Welding & Joining Processes** 3 credits (1 lec, 4 lec lab hrs/wk)
Prerequisite(s): ( WLD101 and WLD103 )
Introduces the application of modern welding, joining, and forming processes on manufacturing materials. The focus is on new welding and joining processes for ferrous and non-ferrous metals and various materials used in manufacturing. Metallurgy of ferrous and non-ferrous materials will be studied and procedures practiced.
This course may be taken 1 time for credit.
Course classification: CTE

**WLD180 Internship - Welding** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

**WLD200 Welding Process II** 3 credits (1 lec, 4 lec lab hrs/wk)
Introduction to Electric Arc Welding Processes emphasizing the basics of Shielded Metal Arc Welding, Gas Metal Arc Welding and Flux Cored Arc Welding. Students will develop basic knowledge and skill in setup and safe use of Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW) to industry standards
This course may be taken 1 time for credit.
Course classification: CTE

**WLD201 Pipe Fitting and Welding II** 3 credits (1 lec, 4 lec lab hrs/wk)
Prerequisite(s): ( WLD105 )
Theory and practical application of pipe joint preparation and design; API (American Petroleum Institute) and AWS (American Welding Society) welding codes specifications for pipe and pipe fittings; geometric curve design for branched joints for piping system; wire and electrodes selections; advanced welding blue print and pipe welding symbols, SMAW, GMAW, and GTAW of pipe joints; metallurgical transformation of weld Heat Affected Area (HAA); welding discontinuities and defects; destructive and non-destructive testing; and methods of inspection and testing.
This course may be taken 1 time for credit.
Course classification: CTE

**WLD202 Forklift Operator Training and Cert** 1 credit (2 lec lab hrs/wk)
Prerequisite(s): Instructor consent
Corequisite(s): ( WLD106 )
This course provides all the necessary instruction and training required by the forklift operator regulations.
This course may be taken 1 time for credit.
Course classification: CTE

**WLD203 Advanced Individual Welding** 3 credits (1 lec, 4 lec lab hrs/wk)
Prerequisite(s): ( WLD206 )
Allows the students to either specialize in welding techniques and processes they find appropriate for their needs and/or design, draw, estimate, order material, lay out, and fabricate an individualized project. Student will utilize practical application of industry methods in accomplishing these goals.
This course may be taken 1 time for credit.
Course classification: CTE

**WLD204 Advanced Pipe III** 3 credits (1 lec, 4 lec lab hrs/wk)
Prerequisite(s): ( WLD201 )
With the continuance of WLD 201, this course indroduces students to fitting small diameter pipe in saddles, 45 laterals and concentric reducers. Also looking at 45 offsets and rolled offsets with 4" Sch 40 pipe.
This course may be taken 1 time for credit.
Course classification: CTE

**WLD205 The Welding Business** 3 credits (3 lec hrs/wk)
This course introduces students to business aspects of the welding industry. Topics will include relevant business issues such as entrepreneurship, business planning, leadership, management, quality control, risk management, productivity, safety, and estimating.
This course may be taken 1 time for credit.
Course classification: CTE

**WLD206 Lab C** 3 credits (1 lec, 4 lec lab hrs/wk)
Prerequisite(s): ( WLD100 and WLD101 )
Emphasizes layout and fitting skills applicable to an industrial welding and fabrication shop including reading prints, estimating and ordering material, performing layout and cutting work, fitting pieces into assemblies, and weld-out procedures applicable to fabricating a finished product. Emphasizes problem-solving and cooperation within an industrial-like environment. Safety, accuracy, quality, and a commitment to excellence emphasized.
This course may be taken 1 time for credit.
Course classification: CTE

**WLD207 Gas Tungsten Arc Welding II** 3 credits (1 lec, 4 lec lab hrs/wk)
Prerequisite(s): ( WLD107 )
Continued study of Gas Tungsten Arc Welding (GTAW) introduced in WLD 107. Through classroom discussions, video tapes, and hands on application, the course will cover intermediate and advanced techniques in the GTAW. Covering advanced ac wave control, distortion control and weld defects and discontinuities.
This course may be taken 1 time for credit.
Course classification: CTE

**WLD210 Welding Cert for 2nd Year** 3 credits (1 lec, 4 lec lab hrs/wk)
Prerequisite(s): ( WLD101 and WLD103 and WLD104 )
Provides experienced welders with lab time for practice in basic welding techniques for skills upgrading and/or certification. The instructor is available for technical assistance.
This course may be taken 1 time for credit.
Course classification: CTE

**WLD280 CWE: Welding Tech** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to test knowledge learned in the classroom and explore the variety of workplaces in which to apply that knowledge.
This course may be taken 12 times for credit.
Course classification: LDC

# WRITING (WR)

**WR115 Fundamentals of Report Writing** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( WR90R )
As an introduction to report writing, this course presents the fundamentals and development of writing strategies for technical and business professionals. It introduces these basic strategies through frequent, business related writing exercises. It is designed to help students learn the use of unity, clarity, coherence, and detail in the development of written ideas for the workplace.
This course may be taken 1 time for credit.
Course classification: LDC

**WR121Z Composition I** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( WR90R )
WR 121Z engages students in the study and practice of critical thinking, reading, and writing. The course focuses on analyzing and composing across varied rhetorical situations and in multiple genres. Students will apply key rhetorical concepts flexibly and collaboratively throughout their writing and inquiry processes.
This course may be taken 1 time for credit.
Course classification: LDC

**WR122Z Composition II** 4 credits (4 lec hrs/wk)
Prerequisite(s): ( WR121Z )
WR 122Z builds on concepts and processes emphasized in WR 121Z, engaging with inquiry, research, and argumentation in support of students' development as writers. The course focuses on composing and revising in research-based genres through the intentional use of rhetorical strategies. Students will find, evaluate, and interpret complex material, including lived experience; use this to frame and pursue their own research questions; and integrate material purposefully into their own compositions.
This course may be taken 1 time for credit.
Course classification: LDC

**WR180 Internship: Writing** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Practical on-site experience that will allow students to explore workplace environments and career options.
This course may be taken 12 times for credit.
Course classification: LDC

**WR227Z Technical Writing** 4 credits
Prerequisite(s): ( WR115 ) or ( WR121Z )
WR 227Z introduces students to producing instructive, informative, and persuasive technical/professional documents aimed at well-defined and achievable outcomes. The course focuses on presenting information using rhetorically appropriate style, design, vocabulary, structure, and visuals. Students can expect to gather, read, and analyze information and to learn a variety of strategies for producing accessible, usable, reader-centered deliverable documents that are clear, concise, and ethical.
This course may be taken 1 time for credit.
Course classification: LDC

**WR241 Imaginative Creative Writing Fiction** 3 credits (3 lec hrs/wk)
This course introduces the theory, techniques, and practice of fiction writing to the beginning student. It emphasizes the short story. Part of the term is spent reading and analyzing published work in terms of such writing techniques as characterization, scenes, dialogue, thematic content, and structure. Writing exercises, both to take home and to do in the classroom, complement these discussions, and are critiqued. Part of each week is spent in a writers' workshop where student writing is discussed, analyzed, and critiqued by the whole class and the instructor.
This course may be taken 1 time for credit.
Course classification: LDC

**WR242 Imaginative Writing Poetry** 3 credits (3 lec hrs/wk)
This course introduces the theory, techniques, and practice of poetry writing to the beginning student through reading published work and through writing exercises. Part of each term is spent in a writer's workshop where student writing is discussed, analyzed, and critiqued by the class and the instructor.
This course may be taken 1 time for credit.
Course classification: LDC

**WR243 Imaginative Creative Writing - Play** 3 credits (3 lec hrs/wk)
This course centers on discussion of the techniques of play writing and monologue writing through the reading and analysis of published work and through writing exercises. Areas to be explored depend upon student and teacher interest. Part of each week is spent in a writing workshop during which student writing is discussed, analyzed, and critiqued by the whole class and the instructor.
This course may be taken 1 time for credit.
Course classification: LDC

**WR280 CWE: Writing** 1-12 credits (3 lab hrs/wk/cr)
Prerequisite(s): Instructor consent
Offers career exploration and workplace experience within a widely defined number of supervised settings which provide professional experience in the field of writing.
This course may be taken 12 times for credit.
Course classification: LDC

**WR90R Academic Literacy** 4 credits (4 lec hrs/wk)
A reading comprehension and writing skills course that prepares students to actively, purposely, and rhetorically engage in college-level literacy.
This course may be taken 1 time for credit.
Course classification: DEV

**WR95 English Composition Fundamentals** 1 credit (2 lec lab hrs/wk)
Corequisite(s): ( WR115 ) or ( WR121Z )
English Composition Fundamentals provides intensive instruction and practice in writing coherent paragraphs and essays for specific audiences. It focuses on the recursive writing process, sentence structure, paragraph structure, essay structure, grammar, mechanics, and usage.
This course may be taken 1 time for credit.
Course classification: DEV

# FACULTY & STAFF

# ADMINISTRATION

Akers, Forrest; Assistant Director of International Recruitment Admissions
BA, Applied Linguistics, Portland State University 02/2003
Atkinson, John; Director of Conduct and Community Standards
M.Ed., Adult and Higher Education, Montana State University 06/2019
BA, Criminal Justice, University of Nevada Reno 06/2014

Aton, Robert; Director of Security. Risk and Emergency Management
BS, Administration of Justice, California State University 06/1988
AS, Corrections, Solano Community College, 06/1985
AS, Law Enforcement, Solano Community College, 06/1985
Balogh, Heather; Enterprise Information System Administrator
B.S. Business Administration, Eastern Oregon University 6/2016
A.A.S. Small Business Management Entrepreneurship, Southwestern Oregon Community College, 06/2008
Belter, Joseph; Director of Residence Life
M.S. Educational Leadership and Policy, Portland State University, 03/2013
B.S. Recreational and Leisure Studies, Winona State University, 12/2005
Benoit, Michelle; Director of TRIO and Student Support Services
M.S. Education, Oregon State University, 06/2011
B.A. French, Michigan State University, 03/1990
Buell, Curtis; Director of Adult & Pre-College Education/Tutoring
M.Ed. Educational Leadership, University of Oregon, 09-2004
B.S. General Science, University of Oregon, 06/2003
Cooper, Elizabeth; Executive Director of Nursing And Allied Health
M.S. Nursing, 2015, Walden University;
B.S. Nursing, 2011, Linfield College;
A.S. Nursing, 2005, Southwestern Oregon Community College
Croy, Kyle, Director of Facility Services
BS Communication, Southern Oregon University, 06/2007
AA Communication, Southwestern Oregon Community College, 06/2004
Dapena, Raushanna; Apprenticeship Program Director
BA, English, Idaho State University 06/2010
Farrell-Matthews, Anne; Graphic Designer and Communications Administrator
A.A. Art Design, Southwestern Oregon Community College, 06/1986
Fitzhenry, Leigh; Executive Director of Business Services
B.S. Accounting, Western Governors University, 10/2021
A.A.S. Business Management, Southwestern Oregon Community College, 06/2003

Guenther, Kelsey; Marketing Director
B.A. Communications Pacific Lutheran University, 2004
Goodwin, Doug; Dean of Instruction-Transfer, Arts, & Community Education
Ph.D., Language Studies, Canterbury Christ Church University/ University of Kent 06/2009
M.Ed., Educational Technology and English Language Teaching, University of Manchester 06/2000
BA, Spanish, Western Oregon University 06/1992
Graf, Erik; Director of Registration and Curriculum
M.Ed., Special Education, Grand Canyon University 06/2019
MA, History, San Francisco State University 06/2012
BA, History, California State University Long Beach 06/2008
Hamner, Elise; Dean of Resource Development/College Foundation
M.A. Organizational Leadership, Gonzaga University, 05/2017
B.A. Technical Journalism/Business Administration, Oregon State University, 08/1987
Heath, Robert; Title III Project Director
M.Ed., Online Innovation and Design, University of Alaska 05/2018
MA, Philosophy and Literature, Vermont College Norwich University 06/1994
BA, Liberal Arts, Sheldon Jackson College, 05/1988
Ingalls, Stephanie; Chief Human Resources Officer
Ed.D., Educational Leadership, California State University 05/2023
MS, Industrial and Organizational Psychology, California State University 06/2018
BA, Psychology, California State University 06/2016
AA, Sociology, Moreno Valley City College 06/2014
Jennings, Stevie; Director of Financial Aid
BS, Anthropology/Sociology, Eastern Oregon University 03/2020
AA, Southwestern Oregon Community College 06/2012
Koopman, Daniel; Dean of Instruction - Career Technical Education
Ed.D. Adult and Higher Education Administration, University of South Dakota, 12/2015
Ed.S. Educational Administration, University of Idaho, 06/2000
M.Ed. Educational Administration, University of Idaho, 06/1992
B.A. Religion, Walla Walla University, 06/1982
Lund, Alisha; Director of Institutional Effectiveness
Ph.D. Public Administration and Policy, Portland State University
MS Urban Studies, Portland State University
BA Political Science, Southern Oregon University
Lyon, Rachele; Vice President of Administrative Services
M.B.A. Human Resource Management; Organizational Development, Upper Iowa University, 06/2004
B.S. Business Management, Linfield College, 05/2001
A.S. Business Administration, Southwestern Oregon Community College, 03/2000
Mageehon, Ali; Vice President of Instruction
Ph.D. Higher Education/Adult Education, University of Denver, 08/2004
M.A. English, University of Colorado, 06/1999
B.A. English/Creative Writing, University of Denver, 06/1996
Munoz, Jose; Sous Chef/Kitchen Supervisor
Neel, Kellie; Executive Chef of Dining Services
Culinary Certificate, Oregon Culinary Institute, 04/2009
B.S. Biology, University of Kansas, 05/2002
Noland, Taya; Care Connections Program Director
M.A. English, Portland State University, 06/2006
M.F.A. Creative Writing, University of Idaho, 08/2003
B.A. English, University of Oregon, 06/1999
Scott, Patty; President
Ed.D. Community College Leadership, Oregon State University, 03/2004

M.A. College Student Personnel, Bowling Green State University, 06/1986
B.S. Sociology, University of Oregon, 06/1984
Singh, Avena; Dean of Financial Aid and Registration
M.B.A. Business Management – Marketing, American InterContinental University, 06/2005
B.S. Information Technology, University of Phoenix, 08/2002
A.A.O.T., Southwestern Oregon Community College, 06/1998
Solomon, Clarissa; Campus Store/Mail and Print Services Manager

B.S. Business, Anthropology, Sociology, Eastern Oregon University, 12/2017
A.A. General Studies, Southwestern Oregon Community College, 06/2012

Taylor, John; Executive Director of Integrated Technology Services
CCNA I, CCNA II, CCNA III, CCNA IV - Cisco Certified Network Associate
A+ Certified

teVelde, Jill; Dean of Curry Campus Instruction and Workforce Development
MS Education Leadership and Policy, Portland State University, 06/2011
BA Public Administration and Social Justice, The Evergreen State College, 06/1994
AA Sociology, Big Bend Community College, 06/1992

Tonn, Derek; SBDC Director
M.B.A Management, University of St. Thomas, 2001
B.A. Business, Bethel University, 1993

Torres, Randy; Executive Director of OCCI
A.A.S. Culinary Arts, Orange Coast College, 05/1998
C.E.C. Culinary Arts, Orange Coast College, 12/1999
A.A.S Engineering Technology, Drafting/Design, AIMS Community College, 06/1998

Valentino, Becca; Director of Accessible Education/Counselor
BS, Anthropology/Sociology, Eastern Oregon University 03/2020
AA, Southwestern Oregon Community College 06/2012

Varitek, DeAnne; TRiO/Education Talent Search/Upward Bound Director
MS, Educational Technology, University of Central Missouri 03/2000
BA, English, Western Michigan University 12/1992

Whitlatch, Adam; Dean of Athletics, Health, PE, Recreation, and Enrollment Management
MS, Pedagogy, University of Wisconsin – LaCrosse 08/2001
BS, Adventure Recreation, Ohio University 06/2000
BS, Physical Education, Ohio University 06/2000

## BOARD OF EDUCATION

Susan Anderson
Kathy Erickson
Christine Haynsworth
Marcia Jensen
Calvin Mukumoto
Jeremy Skinner
Maria Sudduth

## EMERITUS ADMINISTRATION AND FACULTY

Pat Alvey
Thomas Bennett
Jerri Bennett-Stillmaker
John Berman
Hans Boettcher
Brenda Brecke
Fred Brick
Jane Briggs
Sharilyn Brown
Robin Bunnell
Don Burdg
Jill Christiana
John Christiansen
Harvey Crim
Kris Crusoe
Tim Dailey
Ray Daniels
Barbara Davey
Evan Davis
Michael Detwiler
Kathy Dixon
Nathan Douthit
George Elkins
Steve Erickson
Robert Fields
Katherine Flores
Larry Fourmet
Willi Furrer
Peggy Goergen
Dorothy Gillett
Shirley Gitchell
Linda Grosso
Dennis Hanhi
Sarah Harrold
Catherine Hockman
Charles Hower
Thomas Humphrey
Zita Ingham
Barbara Johnson
Beverly Kemper
Howard Kubli
N. William Lemoine
Ronald Lilienthal
Sharleen Lillebo
Gerry Livingston
Bruce Locker
Jim Love
Phyllis Love
Rocky Lavoie
Hugh Malafry
Peter Mantey
Bonnie Maxwell
William McGuire
Dave McKiney
Jacqueline McNeill
Sheldon Meyer
Ron Metzger
Sharon Miller
Eleanor Montagna
Carol MooreDeb Nicholls
Tom Nicholls
Jean Noland
John Noland
Ron Olson
Joy Parker
Patricia Parker
Janet Pretti
Carol Richards
Jon Richards
Christian Rosman
Diana Schab
Beverly Segner
Billie Shannon
Karim Schumaker

Jim Shumake
John Speasl
Linda Stagg-Brown
Veneita Stender
Mary Stricker
Ann Sylvia
Stephanie VanHorn
Susan Walker
Sheila Ward
Shawn Warren
Terry Weaver
Jeff Whitey
Mark Wilson

# FACULTY

Heather Aldrich, Assistant Professor, Nursing
M.S. Nursing, 2023, Grand Canyon University; B.S. Nursing, 2002, Oregon Health & Science University; B.S. Nursing, 2000, Oregon Health ScienceUniversity; A.S. Nursing, 1996, Southwestern Oregon Community College

Dr. John Bacon, Assistant Professor, Business/Accounting
D.B.A. Business Administration, 2014, George Fox University; M.B.A. Business Administration, 2005, Northwest University; B.A. Organizational Management, 2003, Northwest University

Ronald Bell, Professor, Counseling
M.C. Counseling Education, 1989, Arizona State University; M.F.A. Playwriting, 1980, University of California, Los Angeles; B.S. Theatre Arts, 1978, University of California, Los Angeles

Jason Bennett, Assistant Professor, Biology
M.A. Teaching, 2011, Southern Oregon University; M.S. Biology, 1999, California State University, Long Beach; B.A. Biology, Ecology and Evolution, 1993, University of California, Santa Barbara

Dr. Daniel Brouse, Professor, Biology
DC Chiropractic, 1998, Western State Chiropractic College; B.S. Biochemistry/Biophysics, 1995, Oregon State University

Amy Burgess, Assistant Professor, Biology
M.S. Environmental Science, 2011, Western Washington University; B.S. Integrative Biology, 2009, Brigham Young University

Jason Cash, Associate Professor, Health/PE, Track Coach
M.S. Physical Education Sports Management, 2007, Minnesota State University Mankato; B.S. History, 1994, Western Oregon University

Chelsea Clemens, Associate Professor, Welding/Manufacturing
A.A.S. Welding & Fabrication, 2013, Southwestern Oregon Community College

Anthony Collins, Professor, Learning Resources
M.Ed. Adult Education, 2000, Western Washington University; B.A. Linguistics, 1999, Western Washington University

Dr. Aaron Coyner, Associate Professor, Engineering and Physics
Ph.D. Physics, 2008, Rice University; M.S. Physics, 2005, Rice University; B.S. Engineering Physics, 2003, University of Tulsa

Cheryl Davies, Professor, Psychology
M.S. Psychology, 2001, Southern Oregon University; B.Commerce Communication, 1989, McMaster University

Tasha Davison, Associate Professor, Forestry/Natural Resources
M.A. Interdisciplinary Studies, 2015, ; B.S. Forestry Management, 2013, Oregon State University

David Deutschman, Associate Professor, Health/PE, Baseball Coach
M.F.A. Coaching & Athletic Administration, 2016, Concordia University; B.F.A. Business, 2012, Western Oregon University

Dr. Judith Dornbach, Associate Professor, Nursing
DrNP Nursing, 2017, University of Pittsburgh; B.S. Nursing, 1984, University of Pittsburgh

Noelle Ebert, Associate Professor, Info Resrcs/Instrl Librarian
M.A. Museum Studies, 2016, Western Illinois University; M. Library and Information Science, 2013, Dominican University; B.A. English, 2007, Western Illinois University

Jessica Engelke, Professor, Business
M.B.A. Human Resources Management, 2009, University of Phoenix; B.S. Business Management, 2006, University of Phoenix; A.A. General Education, 2004, Irvine Valley College

Maria Farinacci, Assistant Professor, Agroecology
B.S. Plant Ecology/Anthropology, 2010, Ohio University

Chris Foltz, Associate Professor, Culinary Arts
Cert. Professional Ice Carving Certi, 2005, Ice Sculpture Unlimited with Mike Vosburg; A.A.S. Professional cooking and Baking, 1998, Baltimore International Culinary College

Cassandra Frandsen, Assistant Professor, APCE Mathematics
M.S. Physics, 2006, Idaho State University; B.S. Biology, 2003, Idaho State University

Nicole Freim, Associate Professor, Writing
M.A. English, 1998, University of Nevada, Las Vegas; B.A. English, 1994, Northern Illinois University; B.A. Theatre, 1994, Northern Illinois University

James Fritz, Professor, Art
M.F.A. Sculpture/Metal Casting, 1989, Southern Illinois University; B.F.A. Liberal Arts/Studio, 1983, St. John's University

Benjamin Holt, Associate Professor, Mathematics
M.S. Environmental Systems: Mathematical Modeling, 2008, Humboldt State University; B.A. Mathematics, 2002, Humboldt State University; A.A. Mathematics, 2000, Columbia College

Kristin Hovenkotter Greco, APCE Lecturer
B.A. Biology, 2002, Pacific Lutheran University

Sean Hutcherson, Professor, Mathematics
M.A. Mathematics and Science Education, 1994, University of California, Berkeley; B.S. Mechanical Engineering, 1989, University of California, Santa Barbara

Brenda Jackson, Assistant Professor, Educationr
M.S. ESOL, 2010, Southern Oregon University; B.S. Elementary Education, 2001, Montana State University

Bernadette Kapocias, Speech, Professor
M.A. Communication, 1997, Washington State University; B.S. Communication, 1993, Southern Oregon State College

Andrea Knutsen, Assistant Professor, Science
Cert. Biochemistry & Molecular Biol, 2019, Oregon State University; M.S. Biology, 2008, University of Saint Joseph; B.S. Biology, 2001, Eastern Oregon University

Jamie Mason, Assistant Professor, Computer Science
M.S. Systems Engineering, 2012, Naval Postgraduate School; M.S. Engineering Management, 2010, Old Dominion University; B.S. Electrical Engineering, Georgia Institute of Technology

Dr. Win McLaughlin, Assistant Professor, Geology

Ph.D. Earth Sciences, 2018, University of Oregon; M.S. Geological Sciences, 2012, University of Oregon; B.S. Environmental Science, 2010, University of the Pacific

Derek Morrelli, Assistant Professor, Chemistry
M.S. Chemistry, 2019, California State University, Fresno; B.S. Biology Cellular/Molecular, 2005, California State University

Louis Rushton, Associate Professor, Mathematics
M.S. Mathematical Sciences, 2017, University of West Florida; M.S. Civil Engineering, 2013, Cleveland State University; M.S. Education, 2009, St Johns University; B.S. Applied Mathematics, 2007, University Oregon; A.A.O.T. , 2005, Southwestern Oregon CommunityCollege

Brian Truka, Associate Professor, Mathematics
M.S. Mathematics, Stats & Computer Science, 2009, Marquette University; M.A. Philosophy, 2003, Marquette University; B.S. Mathematics, 1996, Bradley University

Laura Williams, Assistant Professor, Culinary Arts
A.A.S. Culinary Arts, 2010, Southwestern Oregon CommunityCollege

Kelly Willis, Assistant Professor, Nursing
M.B.A. Healthcare Management, 2018, Western Governors; M.S. Nursing, 2015, Western Governors; B.S. Nursing, 2013, Western Govenors; A.A.S. Nursing, 2003, Umpqua Community College

Michael Winston, Associate Professor, Writing/Humanities
M.A. Creative Writing, 2013, University of North Texas; B.A. English - Creative Writing, 2011, University of North Texas; B.A. Spanish, 2011, University of North Texas

Marta Wozniak, Professor, Writing
M.A. English - Linguistics, 2004, Arizona State University; B.A. English, 2001, Southern Oregon University; M.A. English - Literature, 2001, Nicholas Copernicus University

Jedediah Wyman, Associate Professor, Writing
M.F.A. Creative Writing, 2009, Oregon State University; B.F.A. History, 2001, University of Montana

# RIGHTS & LEGAL NOTICES

## PUBLIC NOTICE OF NON-DISCRIMINATION

Southwestern Oregon Community College Board of Education Notice of Non-Discrimination

Students, their families, employees and potential employees of the Southwestern Oregon Community College District are hereby notified that Southwestern Oregon Community College does not discriminate on the basis of race, color, gender, sexual orientation, marital status, religion, national origin, age, disability status, gender identity or protected veterans in employment, education, or activities as set forth in compliance with federal and state statutes and regulations.

Any person having inquiries concerning Southwestern's compliance with Titles II and IV of the Americans with Disabilities Act of 1990, Titles VI and VII of the Civil Rights Act of 1964, Title IX of the US Education Amendments of 1972 - Public Law 92-318, or Section 504 of the Rehabilitation Act of 1973 may contact:

Rachele Lyon, Vice President of Administrative Services
Southwestern Oregon Community College
1988 Newmark Ave.
Tioga Hall, Rm 511
Coos Bay, OR 97420
541-888-7402

Southwestern Oregon Community College offers the following career and technical education programs for all students regardless of race, color, gender, sexual orientation, marital status, religion, national origin, age, disability status, gender identity, or protected veteran status, including those with limited English proficiency: Business, Office Technology, Computer Technology, Childhood Education, Criminal Justice, Culinary, Fire Sciences, Health Sciences, and Welding.

Persons seeking further information concerning the vocational education offerings and specific prerequisite criteria should contact:

Dr. Ali Mageehon, Vice President of Instruction
Southwestern Oregon Community College
1988 Newmark Ave.
Tioga Hall, Rm 506
Coos Bay, OR 97420
541-888-7417

While every effort is made to ensure the accuracy of the information in this catalog, Southwestern Oregon Community College has the right to make changes at any time without prior notice. This catalog is not a contract between Southwestern Oregon Community College and current or prospective students. Some policies and procedures are subject to change. See quarterly Schedule of Courses for details.

## EQUAL OPPORTUNITY

Southwestern Oregon Community College does not discriminate on the basis of race, color, gender, sexual orientation, marital status, religion, national origin, age, disability status, gender identity, or protected veterans in employment, education, or activities as set forth in compliance with federal and state statutes and regulations

## STUDENT CONSUMER INFORMATION & STUDENT RIGHT TO KNOW

In accordance with 34 CFR Part 668, students have the right to know certain information about Southwestern Oregon Community College including a variety of academic information, financial assistance information, institutional information, institutional security policies and crime statistics, information on completion or graduation rates, and athletic program participation rates and financial support data. To view this data go to Student Consumer Information at https://www.socc.edu/getting-started/paying-for-college/consumer-information/. This page provides links to information about Southwestern Oregon Community College in accordance with the Higher Education Act's disclosure requirements.

Southwestern Oregon Community College (SWOCC) students, as free citizens and members of a learning community, enjoy particular rights. Along with these rights is the responsibility to conduct oneself in accordance with the standards of the College that are designed to advance student learning. Although not all of these rights can be found in any document, it is important to note those that are most fundamental. For a list of policies visit (https://mylakerlink.socc.edu/ICS/Administrative_Services).

### ALCOHOL & DRUG-FREE *(REFER TO APP 7135 FOR THE FULL POLICY)*

It is the Administrative procedure of the Southwestern Oregon Community College District that the College is committed to the prevention of the misuse and abuse of alcohol and drugs by both students and employees. Drug and alcohol abuse is a significant public health problem which has spread throughout our society, affecting performance and productivity, as well as our level of general health. In addition, the use of alcohol and drugs can adversely affect an organization's level of safety as well as its public confidence and trust. Southwestern Oregon Community College defines the following behaviors as violations of the standards of student conduct: The possession of alcoholic beverages or controlled substances on the College campus or any other facility that is rented, leased, owned or occupied by the College at any time when classes or student activities are scheduled, except as specifically approved by the College President or designee. Sanctions which may be imposed on students for violations of the code include: disciplinary probation, temporary exclusion (removal from classes, privileges, or activities for a specified period), expulsion (termination of student status).

### EQUITY & INCLUSION

Students, their families, employees, and potential employees of the Southwestern Oregon Community College District are hereby notified that Southwestern Oregon Community College does not discriminate on the basis of race, color, religion, ethnicity, use of native language, national origin, gender, sexual orientation, gender identity, marital status, veteran status, disability, age, pregnancy, or any other status protected under applicable federal, state, or local laws.

### FREEDOM OF ASSOCIATION

Students shall be free to organize and join associations to promote their common interests subject to the following considerations.

- The membership, policies and actions of a student organization will be determined by vote of only those persons who are bona fide Southwestern Oregon Community College students.
- Affiliation with an extramural organization shall not of itself disqualify a student organization from institutional recognition.
- Each organization shall be free to select its own Southwestern Oregon Community College advisor. Advisors must be either contracted faculty or staff currently employed by SWOCC. SWOCC staff serves the college community when they accept the responsibility to advise and consult with student organizations to provide guidance to the group on college procedure and policy.
- Student organizations shall be required to submit a statement of purpose, criteria for membership, rules of procedures, a current list of officers, and a certified number of active members as a condition of institutional recognition.
- Campus organizations, including those affiliated with an extramural organization, shall be open to all students without respect to race, color, sexual orientation, marital and/or parental status, religion, national origin, age, mental/physical disability or learning disability, Vietnam era or disabled veteran status, or any other status protected under applicable federal, state, or local law. Disability consultations are available through the Office of Accessibility.

## FREEDOM OF INQUIRY AND EXPRESSION

Students shall be free to take exception with the information or views presented in any course without it affecting their grade as long as the disagreement is not disruptive to the instructional process. Students are responsible for learning the content of any course for which they have enrolled even if they disagree with the course content. Students and student organizations shall be free to examine and discuss all questions of interest to them, and to express opinions publicly and privately. They are free to support causes by orderly means that do not disrupt the regular and essential operation of the institution. At the same time, it should be made clear to the academic and the larger community that in their public expressions or demonstrations, students or student organizations speak only for themselves. Actions by individuals or groups to prevent the appearance of speakers who have been invited to the campus, and actions to obstruct or restrain other members of the academic community and campus visitors by physical force are subject to sanction.

## FREEDOM TO PARTICIPATE IN INSTITUTIONAL GOVERNANCE

Student representation on selected SWOCC councils and committees provides an opportunity for students to participate in institutional governance.

## NONDISCRIMINATION/NONHARASSMENT *(REFER TO APP 7165 FOR THE FULL POLICY)*

Southwestern Oregon Community College wishes to maintain a place of learning and work that is free of unlawful discrimination or harassment. The college prohibits discrimination or harassment based upon a person's race, color, religion, ethnicity, use of native language, national origin, gender, sexual orientation, gender identity, marital status, veteran status, disability, age, pregnancy, or any other status protected under applicable federal, state, or local laws.

## SEXUAL OFFENDER REGISTRATION

Anyone who is required to register as a sex offender under ORS 181.592-181.607 (sexual offender registration) or has been ordered by any court, parole board, or other public agency to not have contact with persons under the age of 18 must notify the Office of Administrative Services at Southwestern Oregon Community College (1988 Newmark Ave., Coos Bay OR 97420) in writing within one business day of registering for any class at the College.

## STUDENT PUBLICATIONS *(REFER TO APP 5930 FOR THE FULL POLICY)*

It is the policy of the College that all student#edited campus media publications have been established as designated public forums for student expression. It is the College's intent student media will provide a full opportunity for its students to inquire, question, and exchange ideas and that they will strive to reflect all areas of student interest, including topics about which there may be dissent or controversy. In student publications, both electronic and in print, content must follow the accepted ethics and standards of journalism and opinions must be disclaimed as not necessarily those of the College.

## TOBACCO USE ENVIRONMENT *(REFER TO APP 7155 FOR THE FULL POLICY)*

Southwestern Oregon Community College is committed to providing a safe and healthy environment for its employees, students, and visitors. Consequently, except in designated smoking areas, the use or carrying of any lighted smoking instrument in College buildings or on College premises, at events on College premises, or in College-owned, rented, or leased vehicles is prohibited. The distribution and/or sale of tobacco including any smoking device, is prohibited. For the purpose of this policy, "tobacco" is defined to include any lighted or unlighted cigarette, cigar, pipe, bidi, clove cigarette, e-cigarette, vaporizer pens, and any other smoking product; and smokeless or spit tobacco, also known as dip, chew, snuff or snus, in any form.

**Coos Bay campus designated smoking areas**

- 1- West side of parking lot 1.
- 2- South side of parking lot 2.
- 3- Southeast side of parking lot 3.
- 4- Student Housing parking lot (outside Trinidad Head)
- 5- Student Housing parking lot (outside Cape Arago)

**The Brookings campus is a tobacco-free campus.**

# LAKER CODE OF CONDUCT

1. Students have the responsibility to obey and follow the Laker Code, College policy and procedures, Board policies, the ASG bylaws, federal and state statutes, and city ordinances. The ASG constitution and bylaws and College policy and procedures shall provide means for student involvement.
2. Students are responsible for fulfilling the requirements of their courses
3. Students are responsible for the effects of their decisions and behavior that becomes destructive to the educational goals and processes of Southwestern Oregon Community College.

The following activities may result in disciplinary action:

- **Academic Plagiarism:** The intentional submission for evaluation to a College instructor or administrator of material based on ideas or work done by someone other than the submitter, without reasonable written documentation of material's original source.
- **Academic Cheating:** The intentional submission for evaluation to a College instructor or administrator of material based, in part, on a source or sources forbidden by generally accepted standards or by regulations established by the evaluator and disclosed in a reasonable manner.
- **Animal Abuse:** Intentionally, knowingly, or recklessly causing physical injury to an animal in violation of ORS 167.
- **Furnishing false information** to the College with the intent to deceive.
- **Forgery, alterations, or misuse** of college documents, records, or identification cards.
- **Detention, physical abuse, or conduct** that threatens imminent physical abuse of any person in the college community.
- **Malicious destruction, damage, or misuse** of college or personal property on the college campus. College property is defined as all real and/or tangible property owned or controlled by the College, including but not limited to buildings, grounds, equipment, motor vehicles, library, or other instructional materials.
- **Theft or extensive damage** to another's property at the College or College-related environment.
- **Hazing:** Any initiation rites, on or off campus, involving any intentional action or situation that a reasonable person would foresee as causing mental or physical discomfort, embarrassment, or ridicule. Individual acceptance of or acquiescence to any activity that occurs during an initiation rite does not affect a determination of whether the activity constitutes hazing.
- **The possession, use, or threatened use of firearms, ammunition, knives, explosives, dangerous chemicals, or any other objects as weapons** on College property, except as expressly authorized by law or institutional regulations. AP 3530
- **The possession of alcoholic beverages or controlled substances** on the College campus Updated 3/2/2021 or any other facility that is rented, leased, owned, or occupied by the College at any time when classes or student activities are scheduled. APP 7135, BP 7135, APP 3560
- **Sexual Harassment:** Repeated and unwanted sexual advances, requests for sexual favors, and other verbal and physical conduct which results in inhibition of unconstrained academic interchange or career advancement, or creates an intimidating, hostile, or offensive environment for one of the parties. APP 7165
- **Substantial and material interference** with the operation of the College.
- **Failure to comply** with the terms of any penalties applied under this Student Conduct Code.
- **Disorderly Conduct:** Knowingly and intentionally engaging in violent, tumultuous, or threatening behavior which results in inconvenience, annoyance, or alarm, creates unreasonable noise, or disturbs any lawful assembly of persons.
- **Eluding** or attempting to elude a College Campus Safety officer who is pursuing official duty.

# FERPA

Confidentiality laws prohibit Southwestern Oregon Community College faculty and staff from discussing students' information without written consent.

### What is FERPA?

Students' privacy is protected under the federal Family Educational Rights and Privacy Act, 20 U.P.S.C. Section 1232g; 34 CFR Part 99 (2000) and related state laws. SWOCC has developed procedures in accordance with the law. I Legal References: ORS 166.065, 341.290 (2) (3) (17), 659.850, 659.865, OAR 166-450-0000 to 0125, 589-010-0100, 589-002-0200 (1) (e), 591-004- 0100 to 0750, 591-004-0500.

### What does FERPA mean for college parents/advocates?

Generally, FERPA rules mean at the post-secondary level:

- Student academic information will be given to the student and not to the parents/advocates.
- College representatives are prohibited from discussing information about the student's academic record with parents/advocates.
- Parents and advocates do not have access to disability-related records unless the student provides express written consent.

For detailed FERPA information, see https://www.socc.edu/consumer-information.

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