



2025-26

CATALOG



Clatsop
Community
College

www.clatsopcc.edu

MISSION STATEMENT
EMPOWERING ALL STUDENTS TO REACH THEIR FULL POTENTIAL.

OUR VALUES

Accessibility | Collaboration | Community | Inclusivity | Integrity

OUR VISION

We envision Clatsop Community College as a diverse, dynamic center for education, workforce development, and community enrichment.

STRATEGIC PRIORITIES

- 1. Improve Student Access**
- 2. Increase Student Success**
- 3. Strengthen Our Reputation**
- 4. Increase Organizational Effectiveness**
- 5. Build & Sustain Partnerships**

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

Clatsop Community College Admissions Office 1651 Lexington Ave., Astoria, OR 97103
(503) 338-2411

email: admissions@clatsopcc.edu

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

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

Affirmative Action Officer/Human Resources Director

Non-Discrimination Declaration

It is the policy of Clatsop Community College that there will be no discrimination or harassment on the grounds of race, color, sex, gender, marital status, religion, national origin, age, sexual orientation, gender identity or expression or disability in any educational programs, activities, or employment. Questions or complaints should be directed to Anita Jensen, Affirmative Action/Gender Equity (Title IX) Office, Lower Library, Suite 102, ajensen@clatsopcc.edu (503) 338-2450; TDD : Oregon Relay- Dial 711. For Student Access Services, contact Faith Forster, Columbia Hall, Room 111, fforster@clatsopcc.edu (503) 338-2313.

Accommodations

Students having questions about or a request for classroom accommodations should contact Faith Forster, Columbia Hall, Room 111, fforster@clatsopcc.edu (503) 338-2313.

Community members having questions about or a request for special needs and accommodation should contact Anita Jensen, Lower Library, Suite 102, ajensen@clatsopcc.edu (503) 338-2450; TDD: Oregon Relay- Dial 711. Please send special needs and accommodations requests here. Contact should be made at least two business days in advance of the event.

Declaración de no-discriminación

Es la política de Clatsop Community College que no habrá ningún tipo de discriminación o acoso por razón de raza, color, sexo, género, estado civil, religión, origen nacional, edad, orientación sexual, identidad de género o expresión de discapacidad en los programas educativos, actividades o en la contratación. Preguntas o quejas deben ser dirigidas al Anita Jensen, Oficial de Acción Afirmativa / Título IX localizada en la biblioteca, oficina número 102 ajensen@clatsopcc.edu número de teléfono (503) 338-2450, TDD (discapacidad auditiva) marcar 711 en su teléfono. Para servicios de acceso para estudiantes, comuníquese con Faith Forster localizada en Columbia Hall, oficina número 111, fforster@clatsopcc.edu (503) 338-2313.

Ayuda a personas discapacitadas

Estudiantes que tengan preguntas o una requieran solicitud de adaptaciones en el aula deben comunicarse con Faith Forster, localizada en Columbia Hall, oficina número 111, fforster@clatsopcc.edu (503) 338-2313.

En cuanto a los miembros de la comunidad, se les pide que se comuniquen con Anita Jensen, localizada en la biblioteca, oficina número 102 ajensen@clatsopcc.edu número de teléfono (503) 338-2450, TDD (discapacidad auditiva marcar 711 en su teléfono. Haga el favor de notificar a la oficina para que se le pueda proporcionar apoyo. La comunicación debe tomar lugar por lo menos dos días de trabajo antes del evento por el cual se requiera tal ayuda. Para más información, vea la página Web de Clatsop Community College bajo Información en Español.



**Clatsop
Community
College**



WELCOME TO CLATSOP COMMUNITY COLLEGE!



As President, I'm thrilled to welcome you to a place where your educational goals are our priority. Whether you're here to earn a degree, start a new career, continue your education, or launch a business, we are here to support you every step of the way.

At the core of everything we do is our mission: Empowering all students to reach their full potential. We are committed to creating a supportive and welcoming environment where every student—regardless of background—can access the resources they need to achieve their educational goals.

We envision Clatsop Community College as a diverse, dynamic center for education, workforce development, and community enrichment. Through academic programs, internships, and leadership opportunities, your time here will not only shape your future but also contribute to the growth of our entire community.

We are more than a college; we are a community. You will find faculty, staff, advisors, and peers all dedicated to your success. I encourage you to get involved in student government, clubs, and activities to enhance your college experience and develop personally and professionally.

I'm honored to be part of your educational journey and excited to see all that you will accomplish. Thank you for choosing Clatsop Community College.

Sincerely,

Jarrod Hogue
President
Clatsop Community College



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

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

INSTITUTIONAL STUDENT LEARNING OUTCOMES

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

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

ACCREDITATION

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

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

CONVENIENT, STUDENT-CENTERED FACILITIES

The College's historic main campus in Astoria, on a hillside overlooking the magnificent Columbia River, has undergone extensive redevelopment to provide state-of-the-art laboratories and classrooms, full-accessibility, and inviting, student-centered learning spaces. Columbia Hall houses the Bookstore, cafe, student classrooms, modern science labs, Student Services, and a community meeting room. Patriot Hall opened Summer 2017 and features a new gymnasium, classrooms, and indoor running track. In addition to the main campus, the College's MERTS campus, approximately four miles east of Astoria, houses maritime science, fire science, and industrial technology training facilities for welding/fabrication, automotive, and historic preservation and restoration. The South County Campus in Seaside is the location for small business and economic development services as well as various classes convenient to South County residents.

A SENSE OF PLACE

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

2025-2026 Student Academic Calendar

25-May						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

25-Jun						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

25-Jul						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

25-Aug						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

25-Sep						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

25-Oct						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

25-Nov						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

MAY

23 Last Day to Change to an Audit/Credit or Withdraw

JUNE

9 Finals Week: June 9 thru June 13

13 2025 SPRING TERM ENDS

13 2025 Commencement Ceremony

17 Spring Term Grades Posted Online

JULY

7 2025 SUMMER TERM BEGINS

14 Payment Due/Last Day to Drop a Course

AUGUST

18 Last Day to Change to an Audit/Credit or Withdraw

25 Finals Week: Aug 25 thru Aug 28

28 2025 SUMMER TERM ENDS

SEPTEMBER

2 Summer Term Grades Posted Online

18 Fall Waitlist Cleared

22 2025 FALL TERM BEGINS

22 Last Day to Register

29 Payment Due/Last Day to Drop a Course

OCTOBER

NOVEMBER

3 Winter Registration Opens

14 Last Day to Change to an Audit/Credit or Withdraw

DECEMBER

8 Finals Week: Dec 8 thru Dec 12

12 2025 FALL TERM ENDS

16 Fall Term Grades Posted Online

JANUARY

2 Winter Waitlist Cleared

5 2026 WINTER TERM BEGINS

5 Last Day to Register

12 Payment Due/Last Day to Drop a Course

FEBRUARY

9 Spring Registration Opens*

27 Last Day to Change to an Audit/Credit or Withdraw

MARCH

16 Finals Week: Mar 16 thru Mar 20

20 2026 WINTER TERM ENDS

24 Winter Term Grades Posted Online

26 Spring Waitlist Cleared

30 2026 SPRING TERM BEGINS

30 Last Day to Register

APRIL

6 Payment Due/Last Day to Drop a Course

MAY

7 Graduation Applications Due for Commencement Bulletin

11 Summer and Fall Registration Opens*

22 Last Day to Change to an Audit/Credit or Withdraw

JUNE

8 Finals Week: June 8 thru June 12

12 2026 SPRING TERM ENDS

12 2026 Commencement Ceremony

16 Spring Term Grades Posted Online

25-Dec						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

26-Jan						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

26-Feb						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

26-Mar						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

26-Apr						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

26-May						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

26-Jun						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

*Registration for Veterans opens two days prior to posted date & registration for 45+ credits opens one day prior to posted date.

Calendar Key	
Term Begin/End Registration	
Opens	
Campus Closed	
Break- Campus Open	

DEGREES & CERTIFICATES

DEGREES

The College offers five degrees:

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

CERTIFICATES

The College also offers structured state-approved certificates. A one-year certificate may not be awarded concurrently with or subsequent to a degree in the same applied science program.

WORK TOWARDS A TRANSFER DEGREE (AAOT & AGS DEGREES) <i>Take classes in areas such as:</i> • Anthropology • Art • Biology & Botany • Chemistry • Communications • Economics • English • General Science • Health, Physical Education & Nutrition • History • Math • Music • Philosophy • Physics • Political Science • Psychology • Sociology • Spanish • Women & Gender Studies • Writing	APPLIED SCIENCE STUDY AREAS	2-YEAR DEGREE (AAS)	1-YEAR CERTIFICATE	CAREER PATHWAY CERTIFICATES
	ACCOUNTING	•		•
	AUTOMOTIVE TECHNICIAN	•	•	• (6)
	BUSINESS	•	•	• (5)
	CADD TECHNICIAN		•	
	CRIMINAL JUSTICE	•		• (2)
	FIRE SCIENCE	•		•
	HISTORIC PRESERVATION & RESTORATION	•	•	•
	MARITIME SCIENCE	•		•
	MEDICAL ASSISTANT		•	
	NURSING (RN)	•		
	WELDING	•	•	• (8)
	TRANSFER DEGREES <i>For students intending to transfer into a major at a senior four-year institution.</i> ASSOCIATE OF ARTS OREGON TRANSFER (AAOT) DEGREE ASSOCIATE OF SCIENCE TRANSFER DEGREE IN BIOLOGY (AST-BIOLOGY) ASSOCIATE OF SCIENCE TRANSFER DEGREE IN BUSINESS (AST-BUSINESS) ASSOCIATE OF ARTS TRANSFER DEGREE IN ENGLISH (AAT-ENGLISH) APPRENTICESHIPS <i>North Coast Plumbers JATC provides paid Apprenticeship opportunities.</i> PLUMBING DEGREE PARTNERSHIPS <i>Degree is awarded by the partner institution.</i> Diagnostic Imaging (Linn-Benton CC Partnership) Occupational Therapy (Linn-Benton CC Partnership) OTHER OPPORTUNITIES ASSOCIATE OF GENERAL STUDIES (AGS) DEGREE <i>For students wanting to focus their studies in an area of personal choice.</i> OREGON TRANSFER MODULE (OTM) <i>Approximately half (45 credits) of an associate degree.</i> PREP FOR LICENSE EXAMS <i>Emergency Medical Technician (EMT)</i> <i>Nursing Assistant (CNA)</i>			

DISCIPLINE COURSE LIST

This list of courses can be used to satisfy the discipline requirements for degrees and certificates.

Arts & Letters

ARCH 215	History Pacific NW Architecture	3
ARCH 216	Northwest Architects	3
ART 115,116,117	Basic Design I, II, III	3 ea
ART 131,132,133	Intro to Drawing I, II, III	3 ea
ART 161,162,163	Intro to Photography I, II, III	3 ea
ART 204,205,206	History of Western Art I, II, III	3 ea
ART 225, 226	Graphic Design I, II	3 ea
◊ COM 111Z	Fundamentals of Public Speaking	4
◊ COM 112	Persuasive Speech	4
◊ COM 115	Intro to Intercultural Communication	4
COM 218Z	Interpersonal Communication	4
◊ COM 219	Small Group Discussion	4
ENG 104Z	Intro to Fiction	4
ENG 105Z	Intro to Drama	4
ENG 106Z	Intro to Poetry	4
ENG 110	Introduction to Film Studies	4
◊ ENG 201	Introduction to Shakespeare	4
◊ ENG 204	English Literature-Medieval	4
◊ ENG 205	English Literature-Renaissance	4
◊ ENG 206	English Literature-Victorian/Modern	4
◊ ENG 220	Multicultural American Literature	4

◊ ENG 221	Intro to Children's Literature	4
◊ ENG 253	Survey of American Literature: Pre-Civil War	4
◊ ENG 254	Survey of American Literature: Post-Civil War	4
◊ ENG 263	Autism in Literature	4
◊ ENG 265	Gothic Literature	4
◊ ENG 271	World Lit.-The Ancient World	4
◊ ENG 272	World Lit.-Medieval/Renaissance	4
◊ ENG 273	World Lit.-Africa/Asia/Latin Am	4
◊ HUM 101,102,103	Introduction to Humanities	4 ea
MUS 105	Music Appreciation	3
◊ MUS 206	Intro to History of Rock Music	3
PHL 101	Philosophical Problems	3
PHL 102	Ethics	3
PHL 103	Critical Reasoning	3
◊ SPAN 201,202,203	Second Year Spanish	4 ea
WR 240	Creative Writing-Nonfiction	3
WR 241	Creative Writing-Fiction	3
WR 242	Creative Writing-Poetry	3
WR 249	Writing Children's Books	4
WR 270	Literary Publishing	4
WR 271	Advanced Literary Publications	4

Social Science:

ANTH 101	Intro to Biological Anthropology	4
◊ ANTH 102	Intro to Archaeology & Prehistory	4
◊ ANTH 103	Intro to Cultural Anthropology	4
EC 201Z,202Z	Principles of Economics	4 ea
◊ HST 101,102,103	History of Western Civilization	3 ea
◊ HST 104,105,106	World History I, II, III	4 ea
◊ HST 201,202,203	History of the United States	3 ea
HST 218	Native American History	3
HST 245	Lewis/Clark Course of Discovery	3
HST 277	History of the Oregon Trail	3
PS 201	American Government	3

PSY 101	Psychology of Human Relations	3
PSY 201Z,202Z	General Psychology	4 ea
PSY 215	Intro. to Developmental Psychology	3
PSY 219	Intro to Abnormal Psychology	3
◊ SOC 204Z	Introduction to Sociology	4
◊ SOC 205Z	Social Change and Institutions	4
◊ SOC 206Z	Social Problems	4
◊ SOC 225	General Sociology: Global Issues	4
◊ WGS 111	Gender Beauty Ideals and Media	4
◊ WGS 201	Intro to Women's Studies	4
◊ WGS 210	Cultural Perspectives of Women of Color	4
◊ WGS 230	Women and Social Action	4

Science / Mathematics

* BI 101,102,103	General Biology	4 ea
* BI 143	Marine Biology	4
* BI 221Z,222Z,223Z	Principles of Biology I, II, III	5 ea
* BI 231,232,233	Human Anat. and Physiology I, II, III	4 ea
* BI 234	Introductory Microbiology	4
* BOT 101	Botany	4
* CH 104,105	Introductory Chemistry I, II	4 ea
* CH 221Z,222Z,223Z	General Chemistry	5 ea
* GS 104	Physical Science-Physics	4
* GS 105	Physical Science-Chemistry	4
* GS 106	Physical Science-Geology	4

* GS 108	Physical Science-Oceanography	4
* GS 109	Physical Science-Meteorology	4
* GS 112	Chem and Cell Biology	5
* GS 120	Physical Science-Atmospheric Phenomena	4
GS 161	Field Biology of Oregon	3
MTH 105Z	Math in Society	4
MTH 111Z	Precalculus I	4
MTH 112Z	Precalculus II	4
MTH 211, 212, 213	Fundamentals of Elementary Mathematics I, II, III	4 ea
MTH 251Z	Calculus I	4
MTH 252Z,253Z	Calculus II,III	4 ea
* PH 201,202,203	General Physics	5 ea
* PH 211,212,213	General Physics with Calculus	5 ea
STAT 243Z, 244	Intro. to Probability and Statistics	4 ea

Human Relations: 1 course from the following list: BA 206, BA 285, BLD 207, COM 115, COM 219, MAS 207, or PSY 101.

** Courses that meet lab science requirement.*

◊ Courses that meet the Cultural Literacy requirement.

ASSOCIATE OF ARTS, OREGON TRANSFER DEGREE (AAOT)

ROLE DESCRIPTIONS:

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

INTENDED LEARNING OUTCOMES:

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

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

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

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

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

FOUNDATIONAL REQUIREMENTS

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

ASSOCIATE OF ARTS, OREGON TRANSFER DEGREE (AAOT)

DISCIPLINE REQUIREMENTS

- **Arts & Letters:** Students must complete three courses chosen from two or more disciplines. The second year of a foreign language, but not the first year, may be included among courses that count toward the Arts and Letters requirement.
- **Social Science:** Students must complete four courses chosen from two or more disciplines.
- **Science/Mathematics:** Students must complete four courses from at least two disciplines, including at least three laboratory courses in biological and/or physical science.

ELECTIVES

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

Students may complete any college-level course that would bring total credits to 90 quarter hours with the following limitations:

- 18 credits Cooperative Work Experience.
- 6 credits Physical Education (PE).
- A maximum of 12 credits in Individual Music Lessons (MUP) will apply to a two-year degree with courses numbered MUP 171-192 and 271-292. A total of 18 credits of MUP courses are allowed.
 - 12 credits on a primary instrument can be taken.
 - 6 credits on a secondary instrument can be taken.
 - Students may combine primary and secondary instrument MUP courses totaling 12 credits.
- 12 credits of Career and Technical Education course that include the following prefixes:
TRN 9999, APR, AUTO, BA (131, 132, 141, 177, 214, 228, 249, 295A and 295M), BT, BLD, CJ, CS (except CS 131), CIS, CSL, DRF, ECE, EM, EMT, FRP, IT, MA, MAS, MSE, MIC, NRS/NUR, OA, SET and WLD.

INSTITUTIONAL REQUIREMENTS

- Complete a total of 90 credits of college-level coursework. College-level courses are numbered 100 or higher. Courses numbered 001-099 are considered developmental.
- Complete at least 24 credits at Clatsop Community College.
- All courses must be passed with a grade of "C" or better.
- A maximum of 24 credits of "P" (Pass) may be used toward a degree.
- Cumulative GPA must be at least 2.0 at the time when the degree is awarded.

FOREIGN LANGUAGE

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

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

FOREIGN LANGUAGE FOR TRANSFER STUDENTS

Students who plan to earn a Bachelor of Arts degree when transferring to a public four-year university in Oregon must complete 8 credits (over two terms) in foreign language prior to transferring.

ASSOCIATE OF ARTS, OREGON TRANSFER DEGREE (AAOT)

ART - GUIDED PATHWAY

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

YEAR ONE	CORE COURSES	CORE COURSES	SUGGESTED DISCIPLINE AREA COURSES	AAOT GENERAL REQUIREMENT	AAOT GENERAL REQUIREMENT	ELECTIVES	CR.
FALL	Basic Design ART 115 3 Cr.	Introduction to Drawing I ART 131 3 Cr.	History of Western Civilization I HST 101 3 Cr.	PE Activity PE 185 1 Cr.	English Composition WR 121Z 4 Cr.		14
WINTER	Basic Design ART 116 3 Cr.	Introduction to Drawing II ART 132 3 Cr.	History of Western Civilization II HST 102 3 Cr.	PE Activity PE 185 1 Cr.	Advanced Composition WR 122Z 4 Cr.	Studio Art Elective 3 Cr.	17
SPRING	Basic Design ART 117 3 Cr.	Introduction to Drawing III ART 133 3 Cr.	History of Western Civilization III HST 103 3 Cr.	PE Activity PE 185 1 Cr.	Math in Society MTH 105Z, 4 Cr.		14
					OR Precalculus I MTH 111Z, 4 Cr.		

YEAR TWO	CORE COURSES	CORE COURSES	SUGGESTED DISCIPLINE AREA COURSES	SUGGESTED DISCIPLINE AREA COURSES	AAOT GENERAL REQUIREMENT	ELECTIVES	CR.
FALL	History of Western Art I ART 204 3 Cr.	Drawing: Intermediate I ART 231, 3 Cr. OR Intro to Ceramics I ART 250, 3 Cr.	Psychology of Human Relations PSY 101 3 Cr.	Lab Science 4 Cr.		Studio Art Elective 3 Cr.	16
WINTER	History of Western Art II ART 205 3 Cr.	Introduction to Drawing II ART 132, 3 Cr. OR Intro to Ceramics II ART 251, 3 Cr.	Science / Math 3+ Cr.	Lab Science 4 Cr.	Fundamentals of Public Speaking COM 111Z 4 Cr.		17+
SPRING	History of Western Art III ART 206 3 Cr.	Drawing: Intermediate III ART 233, 3 Cr. OR Intro to Ceramics III ART 252, 3 Cr.	Multicultural American Literature ♦ ENG 220 3 Cr.	Lab Science 4 Cr.		Studio Art Elective 3 Cr.	16

♦ Satisfies the Cultural Literacy Requirement.

ASSOCIATE OF ARTS, OREGON TRANSFER DEGREE (AAOT)

BIOLOGICAL SCIENCE - GUIDED PATHWAY

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

YEAR ONE	CORE COURSES	CORE COURSES	CORE COURSES / AAOT GENERAL REQUIREMENTS	AAOT DISCIPLINE AREA REQUIREMENT	CR.
FALL	Principles of Biology I BI 221Z 5 Cr.	General Chemistry I CH 221Z 5 Cr.	English Composition WR 121Z 4 Cr.	Social Science 3+ Cr.	17+
WINTER	Principles of Biology II BI 222Z 5 Cr.	General Chemistry II CH 222Z 5 Cr.	Precalculus I MTH 111Z 4 Cr.	Social Science 3+ Cr.	17+
SPRING	Principles of Biology III BI 223Z 5 Cr.	General Chemistry III CH 223Z 5 Cr.	Elementary Functions, Trigonometry MTH 112Z 4 Cr.	Social Science 3+ Cr.	17+

YEAR TWO	CORE COURSES	CORE COURSES	CORE COURSES / AAOT GENERAL REQUIREMENTS	AAOT DISCIPLINE AREA REQUIREMENT	CR.
FALL	General Physics With Calculus PH 211 5 Cr.	Differential Calculus MTH 251Z 4 Cr.	English Composition WR 122Z 4 Cr.	Arts & Letters 3+ Cr.	17+
WINTER	General Physics With Calculus P H 212 5 Cr.	Integral Calculus, MTH 252Z 4 Cr.		Arts & Letters 2 Courses, 3+ Cr. Each	15+
SPRING	General Physics With Calculus PH 213 5 Cr.	Oral Communication Fundamentals of Public Speaking COM 111Z 4 Cr.	Health and Fitness for Life HPE 295 3 Cr.	Social Science 3+ Cr.	15+

Choose one AAOT Discipline Area Requirement that satisfies the Cultural Literacy Requirement.

ASSOCIATE OF ARTS, OREGON TRANSFER DEGREE (AAOT)

BUSINESS - GUIDED PATHWAY

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

YEAR ONE	CORE COURSES	CORE COURSES	SUGGESTED DISCIPLINE AREA COURSES	AAOT GENERAL REQUIREMENT/ DISCIPLINE AREA	AAOT GENERAL REQUIREMENT/ DISCIPLINE AREA	AAOT GENERAL REQUIREMENT	CR.
FALL	Intro to Business BA 101Z 4 Cr.		Lab Science 4 Cr.	Principles of Economics EC 201Z or EC 202Z 4 Cr.		PE Activity PE 185 1 Cr.	13
WINTER		Principles of Marketing BA 223 3 Cr.	Ethics PHL 102 3 Cr.	Oral Communication Fundamentals of Public Speaking COM 111Z 4 Cr.	English Composition WR 121Z 4 Cr.		14
SPRING	Intro to Computer Information Systems CS 131 4 Cr.	Intro to Business Law BA 226Z 4 Cr.	Principles of Economics EC 201Z or EC 202Z 4 Cr.		Math in Society MTH 105Z, 4 Cr. OR Precalculus I MTH 111Z, 4 Cr.	PE Activity PE 185 1 Cr.	17

YEAR TWO	CORE COURSES	CORE COURSES	SUGGESTED DISCIPLINE AREA COURSES	AAOT GENERAL REQUIREMENT/ DISCIPLINE AREA	AAOT GENERAL REQUIREMENT	CR.
FALL	Principles of Accounting BA 211Z 4 Cr.	Management Fundamentals BA 206 3 Cr.	American Government PS 201, 3 Cr. or Social Science, 3 Cr.	Lab Science 4 Cr.	PE Activity PE 185 1 Cr.	15
WINTER	Principles of Accounting II BA 212 4 Cr.	Human Resource Management BA 224 3 Cr.	Lab Science 4 Cr.	Intro. to Probability and Statistics STAT 243Z 4 Cr.		15
SPRING	Principles of Accounting III BA 213Z 4 Cr.	Social Science, 3 Cr.	Arts & Letters 3+ Cr.	Arts & Letters 3+ Cr.	Technical Report Writing WR 227Z 4 Cr.	17

◆ Satisfies the Cultural Literacy Requirement.

ASSOCIATE OF ARTS, OREGON TRANSFER DEGREE (AAOT)

CHEMISTRY - GUIDED PATHWAY

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

YEAR ONE	CORE COURSES	CORE COURSES	AAOT DISCIPLINE AREA REQUIREMENT	AAOT GENERAL REQUIREMENT	CR.
FALL	Precalculus I MTH 111Z 4 Cr.	General Chemistry I CH 221Z 5 Cr.	Social Science 3+ Cr.	English Composition WR 121Z, 4 Cr.	16
WINTER		General Chemistry II CH 222Z 5 Cr.	Social Science 3+ Cr.	English Composition WR 122Z, 4 Cr. OR Technical Writing WR 227Z, 4 Cr.	16
SPRING	Precalculus II, Trigonometry MTH 112Z 4 Cr.	General Chemistry III CH 223Z 5 Cr.	Social Science 3+ Cr.	Fundamentals of Public Speaking COM 111Z, 4 Cr.	16

YEAR TWO	CORE COURSES	CORE COURSES	AAOT DISCIPLINE AREA REQUIREMENT	AAOT DISCIPLINE AREA REQUIREMENT	AAOT GENERAL REQUIREMENT	CR.
FALL	General Physics With Calculus PH 211 5 Cr.	Differential Calculus MTH 251Z 4 Cr.	Arts & Letters 3+ Cr.	Social Science 3+ Cr.	PE Activity PE 185 1 Cr.	17
WINTER	General Physics With Calculus PH 212 5 Cr.	Integral Calculus, MTH 252Z 4 Cr.	Arts & Letters 3+ Cr.		PE Activity PE 185 1 Cr.	13
SPRING	General Physics With Calculus PH 213 5 Cr.	Calculus III, MTH 253Z 4 Cr.	Arts & Letters 3+ Cr.		PE Activity PE 185 1 Cr.	13

Choose one AAOT Discipline Area Requirement that satisfies the Cultural Literacy Requirement.

ASSOCIATE OF ARTS, OREGON TRANSFER DEGREE (AAOT)

ECONOMICS - GUIDED PATHWAY

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

YEAR ONE	CORE COURSES	CORE COURSES/ AAOT GENERAL REQUIREMENTS	AAOT GENERAL REQUIREMENT	AAOT GENERAL REQUIREMENT	CR.
FALL	Principles of Economics EC 201Z or EC 202Z 4 Cr.	Principles of Accounting I BA 211Z 4 Cr.	Precalculus I MTH 111Z 4 Cr.	English Composition WR 121Z 4 Cr.	16
WINTER	Principles of Economics EC 201Z or EC 202Z 4 Cr.	Principles of Accounting II BA 212 4 Cr.	Social Science 3+ Cr.	Technical Report Writing, WR 227Z, 4 Cr. OR English Composition WR 122Z, 4 Cr.	15+
SPRING	Principles of Accounting III BA 213Z 4 Cr.	Arts & Letters 3+ Cr.	Precalculus II, Trigonometry MTH 112Z 4 Cr.	Fundamentals Public Speaking COM 111Z 4 Cr.	15

YEAR TWO	CORE COURSES	CORE COURSES/ AAOT GENERAL REQUIREMENTS	AAOT GENERAL REQUIREMENT	AAOT GENERAL REQUIREMENT	CR.
FALL		Arts & Letters 3+ Cr.	PE Activity PE 185 1 Cr.	Lab Science 4 Cr.	14
WINTER	Intro: Probability & Statistics STAT 243Z 4 Cr.	Social Science 3+ Cr.	PE Activity PE 185 1 Cr.	Lab Science 4 Cr.	18+
SPRING	Intro: Probability & Statistics STAT 244 4 Cr.	Arts & Letters 3+ Cr.	PE Activity PE 185 1 Cr.	Lab Science 4 Cr.	15

◆ Satisfies the Cultural Literacy Requirement.

ASSOCIATE OF ARTS, OREGON TRANSFER DEGREE (AAOT)

ENGLISH - GUIDED PATHWAY

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

YEAR ONE	CORE COURSES	CORE COURSES	SUGGESTED DISCIPLINE AREA COURSES	SUGGESTED DISCIPLINE AREA COURSES	AAOT GENERAL REQUIREMENT	ELECTIVES	CR.
FALL	World Literature ENG 271 4 Cr.	Introduction to Fiction ENG 104Z 4 Cr.	History of Western Civilization I HST 101 3 Cr.		English Composition WR 121Z 4 Cr.		14
WINTER	World Literature ENG 272 4 Cr.	Introduction to Poetry ENG 106Z 4 Cr.	History of Western Civilization II HST 102 3 Cr.	Science / Math 3+ Cr.	Advanced Composition WR 122Z 4 Cr.		17
SPRING	World Literature ENG 273 4 Cr.	Introduction to Film Studies ENG 110 4 Cr.	History of Western Civilization III HST 103 3 Cr.		Math in Society MTH 105Z, 4 Cr.	Transfer Electives 3+ Cr.	18

YEAR TWO	CORE COURSES	CORE COURSES	SUGGESTED DISCIPLINE AREA COURSES	SUGGESTED DISCIPLINE AREA COURSES	AAOT GENERAL REQUIREMENT	ELECTIVES	CR.
FALL	Arts and Letters 3 Cr.	English Literature: Medieval ENG 204 4 Cr.	Arts & Letters 3+ Cr.	Lab Science 4 Cr.	English Composition WR 121Z 4 Cr.		18+
WINTER	Literary Publications WR 270 4 Cr.	English Literature: Renaissance ENG 205 4 Cr.		Lab Science 4 Cr.	Health & Fitness For Life HPE 295 3 Cr.		15
SPRING	Multicultural American Literature ♦ ENG 220 3 Cr.	English Literature: Victorian/ Modern ENG 206 4 Cr.	Intro: Cultural Anthropology ♦ ANTH 103 4 Cr.	Lab Science 4 Cr.		Transfer Elective 3+ Cr.	18+

♦ Satisfies the Cultural Literacy Requirement.

ASSOCIATE OF ARTS, OREGON TRANSFER DEGREE (AAOT)

HISTORY - GUIDED PATHWAY

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

YEAR ONE	CORE COURSES	CORE COURSES	SUGGESTED DISCIPLINE AREA COURSES	AAOT GENERAL REQUIREMENT	CR.
FALL	History of Western Civilization I ♦HST 101 3 Cr.	World History I HST 104 4 Cr.	World Literature: The Ancient World ♦ENG 271 4 Cr.	English Composition WR 121Z 4 Cr.	15
WINTER	History of Western Civilization II ♦HST 102 3 Cr.	World History II HST 105 4 Cr.	World Literature: Medieval / Renaissance ♦ENG 272 4 Cr.	Advanced Composition WR 122Z 4 Cr.	15
SPRING	History of Western Civilization III ♦HST 103 3 Cr.	World History III HST 106 4 Cr.	World Literature: Africa / Asia / Latin America ♦ENG 273 4 Cr.	Math in Society MTH 105Z, 4 Cr.	15

YEAR TWO	CORE COURSES	CORE COURSES	SUGGESTED DISCIPLINE AREA COURSES	SUGGESTED DISCIPLINE AREA COURSES	AAOT GENERAL REQUIREMENT	AAOT GENERAL REQUIREMENT	CR.
FALL	History of the United States I HST 201 3 Cr.	Lewis & Clark Course of Discovery HST 245 3 Cr.	Social Science (do not choose HST) 4+ Cr.	Lab Science 4 Cr.		PE Activity PE 185 1 Cr.	15
WINTER	History of the United States II HST 202 3 Cr.	History of the Oregon Trail HST 277 3 Cr.	Intro. Probability & Statistics STAT 243Z 4 Cr.	Lab Science 4 Cr.	Arts & Letters (do not choose ENG) 3+ Cr.	PE Activity PE 185 1 Cr.	18+
SPRING	History of the United States III HST 203 3 Cr.	Native American History HST 218 3 Cr.		Lab Science 4 Cr.	Fundamentals of Public Speaking COM 111Z 4 Cr.	PE Activity PE 185 1 Cr.	16

♦ Satisfies the Cultural Literacy Requirement.

ASSOCIATE OF ARTS, OREGON TRANSFER DEGREE (AAOT)

MATHEMATICS - GUIDED PATHWAY

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

YEAR ONE	CORE COURSES	CORE COURSES	SUGGESTED DISCIPLINE AREA COURSES	SUGGESTED DISCIPLINE AREA COURSES	AAOT GENERAL REQUIREMENT	CR.
FALL	Precalculus I MTH 111Z 4 Cr.		Arts & Letters 3+ Cr.	Social Science 3+ Cr.	English Composition WR 121Z 4 Cr.	14
WINTER	Transfer Elective 4+ Cr.	Intro. to Probability & Statistics STAT 243Z 4 Cr.	Arts & Letters 3+ Cr.		Advanced Comp. WR 122Z, 4 Cr. OR Technical Writing WR 227Z, 4 Cr.	15
SPRING	Precalculus II, Trigonometry MTH 112Z 4 Cr.	Intro. to Probability & Statistics STAT 244 4 Cr.	Arts & Letters 3+ Cr.		Fundamentals of Public Speaking COM 111Z 4 Cr.	14

YEAR TWO	CORE COURSES	SUGGESTED DISCIPLINE AREA COURSES	SUGGESTED DISCIPLINE AREA COURSES	AAOT GENERAL REQUIREMENT	AAOT GENERAL REQUIREMENT	CR.
FALL	Differential Calculus MTH 251Z 4 Cr.	Social Science 3+ Cr.	General Physics with Calculus PH 211 5 Cr.	Health and Fitness For Life HPE 295 3 Cr.		16
WINTER	Integral Calculus MTH 252Z 4 Cr.	Social Science 3+ Cr.	General Physics with Calculus PH 212 5 Cr.		Transfer Electives 3+ Cr.	15
SPRING	Calculus III MTH 253Z 4 Cr.	Social Science 3+ Cr.	General Physics with Calculus PH 213 5 Cr.		Transfer Electives 4+ Cr.	16

Choose one AAOT Discipline Area Requirement that satisfies the Cultural Literacy Requirement.

ASSOCIATE OF ARTS, OREGON TRANSFER DEGREE (AAOT)

PHYSICS - GUIDED PATHWAY

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

YEAR ONE	CORE COURSES	SUGGESTED DISCIPLINE AREA COURSES	SUGGESTED DISCIPLINE AREA COURSES	AAOT GENERAL REQUIREMENT	AAOT GENERAL REQUIREMENT	CR.
FALL	Precalculus I MTH 111Z 4 Cr.	Arts & Letters 3+ Cr.	Social Science 3+ Cr.	English Composition WR 121Z 4 Cr.	PE Activity PE 185 1 Cr.	15
WINTER	Transfer Elective STAT 243Z Recommended	Arts & Letters 3+ Cr.	Social Science 3+ Cr.	Technical Report Writing WR 227Z 4 Cr.	PE Activity PE 185 1 Cr.	15
SPRING	Precalculus II, Trigonometry MTH 112Z 4 Cr.	Arts & Letters 3+ Cr.	Social Science 3+ Cr.	Fundamentals of Public Speaking COM 111Z 4 Cr.	PE Activity PE 185 1 Cr.	15

YEAR TWO	CORE COURSES	CORE COURSES	SUGGESTED DISCIPLINE AREA COURSES	RECOMMENDED ELECTIVE	ELECTIVES	CR.
FALL	General Physics with Calculus PH 211 5 Cr.	Differential Calculus MTH 251Z 4 Cr.	Principles of Economics EC 201Z or EC 202Z 4 Cr.		Transfer Electives 1+ Cr.	15
WINTER	General Physics with Calculus PH 212 5 Cr.	Integral Calculus MTH 252Z 4 Cr.		Engineering Orientation EGR 101 3 Cr. or Other 3 Cr. Elective	Transfer Electives 3+ Cr.	15
SPRING	General Physics with Calculus PH 213 5 Cr.	Calculus III MTH 253Z 4 Cr.			Transfer Electives 6+ Cr.	15

◆ Satisfies the Cultural Literacy Requirement.

ASSOCIATE OF ARTS, OREGON TRANSFER DEGREE (AAOT)

PRE-MEDICINE, PRE-DENTAL, PRE-PHYSICAL THERAPY, PRE-VETERINARY, DIAGNOSTIC IMAGING - GUIDED PATHWAY

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

YEAR ONE	CORE COURSES	CORE COURSES	AAOT DISCIPLINE AREA REQUIREMENT	AAOT GENERAL REQUIREMENT	CR.
FALL	Precalculus I MTH 111Z, 4 Cr.	General Chemistry I CH 221Z 5 Cr.	Social Science 3+ Cr.	English Composition WR 121Z 4 Cr.	16
	OR Differential Calculus MTH 251Z, 4 Cr.				
WINTER	Integral Calculus MTH 252Z, 4 Cr.	General Chemistry II CH 222Z 5 Cr.	Social Science 3+ Cr.	English Composition WR 122Z, 4 Cr.	16
				OR Technical Report Writing, WR 227Z, 4 Cr.	
SPRING	Precalculus II, Trigonometry MTH 112Z, 4 Cr.	General Chemistry III CH 223Z 5 Cr.	Social Science 3+ Cr.	Fundamentals Public Speaking COM 111Z 4 Cr.	16
	OR Calculus III MTH 253Z, 4 Cr.				

YEAR TWO	CORE COURSES	CORE COURSES	AAOT DISCIPLINE AREA REQUIREMENT	AAOT DISCIPLINE AREA REQUIREMENT	AAOT GENERAL REQUIREMENT	CR.
FALL	Principles of Biology BI 221Z, 5 Cr.	General Physics PH 201, 5 Cr.*	Arts & Letters 3+ Cr.	Social Science 3+ Cr.	PE Activity PE 185 1 Cr.	17
WINTER	Principles of Biology BI 222Z, 5 Cr.	General Physics PH 202, 5 Cr.*	Arts & Letters 3+ Cr.		PE Activity PE 185 1 Cr.	14
SPRING	Principles of Biology BI 223Z, 5 Cr.	General Physics PH 203, 5 Cr.*	Arts & Letters 3+ Cr.		PE Activity PE 185 1 Cr.	14+
		OR Elective				

Choose one AAOT Discipline Area Requirement that satisfies the Cultural Literacy Requirement.

*Dependent on specific 4-year university requirements.

ASSOCIATE OF ARTS, OREGON TRANSFER DEGREE (AAOT)

HEALTH AND PHYSICAL EDUCATION, EXERCISE SCIENCE - GUIDED PATHWAY

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

YEAR ONE	CORE COURSES	CORE COURSES	AAOT GENERAL REQUIREMENT	AAOT GENERAL REQUIREMENT	AAOT GENERAL REQUIREMENT	CR.
FALL	General Biology BI 101, 4 Cr.	Precalculus I MTH 111Z 4 Cr.	Psychology of Human Relations PSY 101 3 Cr.	English Composition WR 121Z 4 Cr.	PE Activity PE 185 1 Cr.	16
	OR Principles of Biology I BI 221Z, 5 Cr.					
WINTER	General Biology BI 102, 4 Cr.		Transfer Elective 3+ Cr.	English Composition WR 122Z, 4 Cr.	Human Nutrition NFM 225 4 Cr.	16
	OR Principles of Biology II BI 222Z, 5 Cr.			OR Technical Report WR 227Z, 4 Cr.		
SPRING	General Biology BI 102, 4 Cr.	Precalculus II, Trigonometry MTH 112 4 Cr.	Health and Fitness for Life HPE 295 3 Cr.	Fundamentals of Public Speaking COM 111Z 4 Cr.	PE Activity PE 185 1 Cr.	16
	OR Principles of Biology II BI 223Z, 5 Cr.					

YEAR TWO	CORE COURSES	CORE COURSES	AAOT GENERAL REQUIREMENT	AAOT GENERAL REQUIREMENT	AAOT GENERAL REQUIREMENT	CR.
FALL	Human Anatomy and Physiology I BI 231, 4 Cr.		Social Science 3+ Cr.	Arts & Letters 3+ Cr.	Arts & Letters 4 Cr.	14
	OR General Physics PH 201, 5 Cr*					
WINTER	Human Anatomy and Physiology II BI 231, 4 Cr.	Introduction to Probability and Statistics Math 243 4 Cr.	Social Science 3+ Cr.	Arts & Letters 4 Cr.		15
	OR General Physics PH 202, 5 Cr*					
SPRING	Human Anatomy and Physiology III BI 231, 4 Cr.	Small Group Discussion COM 219 4 Cr.	Social Science 3+ Cr.	PE Activity PE 185 1 Cr.	Transfer Elective 3+ Cr.	15
	OR General Physics PH 203, 5 Cr*					

Choose one AAOT Discipline Area Requirement that satisfies the Cultural Literacy Requirement.

*Dependent on specific 4-year university requirements.

ASSOCIATE OF ARTS, OREGON TRANSFER DEGREE (AAOT)

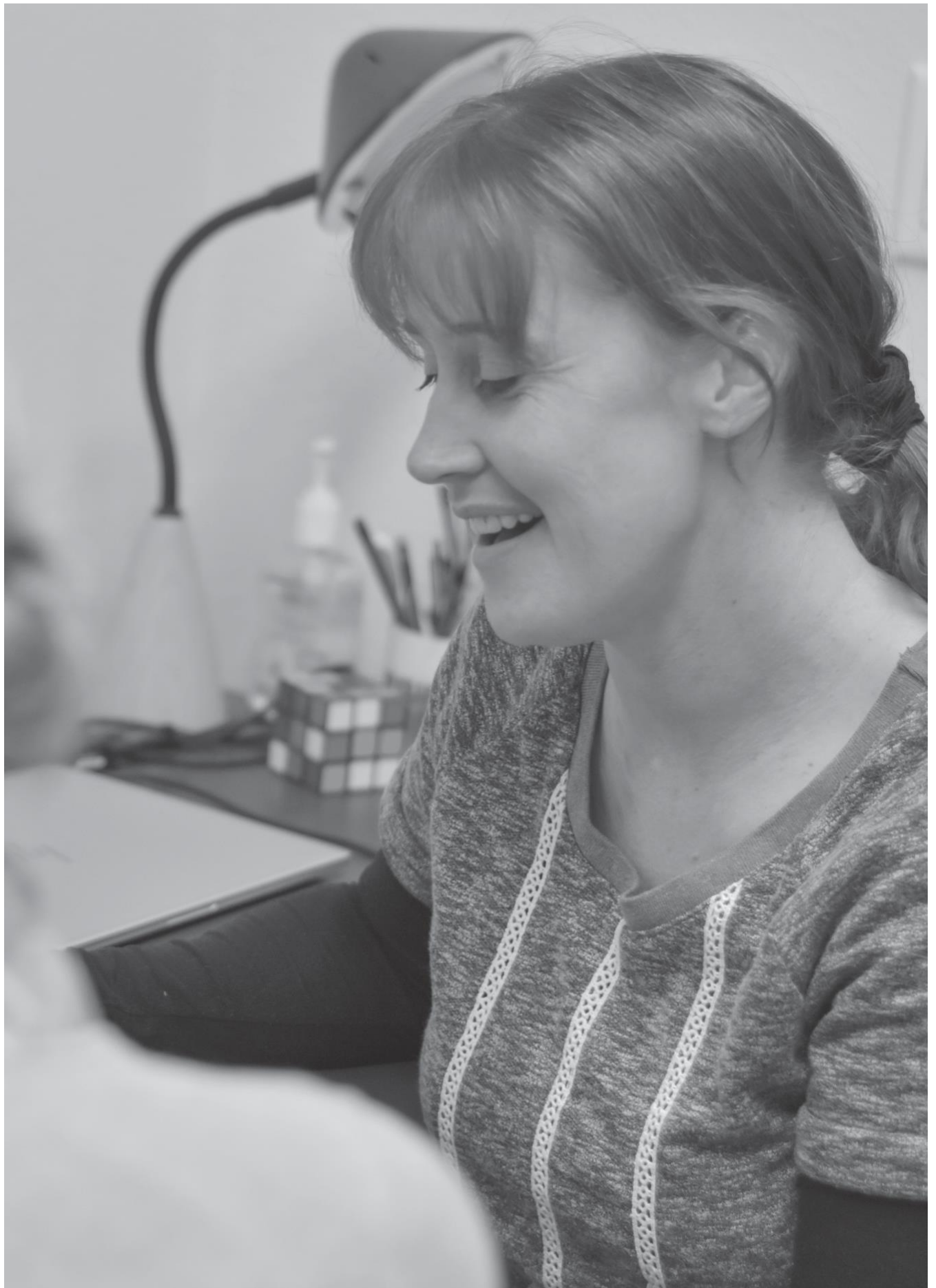
PSYCHOLOGY AND SOCIAL SERVICES - GUIDED PATHWAY

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

YEAR ONE	CORE COURSES	CORE COURSES	SUGGESTED DISCIPLINE AREA COURSES	SUGGESTED DISCIPLINE AREA COURSES	AAOT GENERAL REQUIREMENT	ELECTIVES	CR.
FALL	General Psychology PSY 201Z 4 Cr.		Arts & Letters 3+ Cr.	English Composition WR 121Z 4 Cr.	Math in Society MTH 105Z, 4 Cr. OR Differential Calculus MTH 251Z, 4 Cr.	Information Research Skills LIB 127 1 Cr.	14+
WINTER	General Psychology PSY 202Z 4 Cr.	Psychology of Human Relations PSY 101 3 Cr.		English Composition WR 122Z, 4 Cr. OR Technical Writing WR 227Z, 4 Cr.	Transfer Elective 4+ Cr.		14
SPRING	General Psychology PSY 203 3 Cr.	Intro. to Women's Studies WGS 201 3 Cr.	Intro. to Cultural Anthropology ♦ ANTH 103 4 Cr.	Fundamentals of Public Speaking COM 111Z 4 Cr.	Transfer Elective 4+ Cr.		18

YEAR TWO	CORE COURSES	CORE COURSES	SUGGESTED DISCIPLINE AREA COURSES	SUGGESTED DISCIPLINE AREA COURSES	AAOT GENERAL REQUIREMENT	ELECTIVES	CR.
FALL	General Sociology: Intro SOC 204Z 4 Cr.	General Biology BI 101 4 Cr.	History of Western Civilization I ♦ HST 101 3 Cr.	Arts & Letters 3+ Cr.	PE Activity PE 185 1 Cr.	Transfer Electives 1+ Cr.	15
WINTER	Developmental Psychology PSY 215 3 Cr.	General Biology BI 102 4 Cr.	History of Western Civilization II ♦ HST 102 3 Cr.		PE Activity PE 185 1 Cr.	Intro: Probability & Statistics STAT 243Z 4 Cr.	15
SPRING		General Biology BI 103 4 Cr.	History of Western Civilization III ♦ HST 103 3 Cr.	Arts & Letters 3+ Cr.	PE Activity PE 185 1 Cr.	Intro: Probability & Statistics STAT 244 4 Cr.	15

♦ Satisfies the Cultural Literacy Requirement.



ASSOCIATE OF SCIENCE, TRANSFER DEGREE IN BIOLOGY (AST-BIOLOGY)

ASSOCIATE OF SCIENCE, TRANSFER DEGREE IN BIOLOGY (AST-BIOLOGY)

INTENDED LEARNING OUTCOMES:

- Apply the process of science to biological phenomena.
- Use quantitative reasoning to present evidence-based arguments.
- Communicate an emerging understanding of the impact of scientific discovery and research on society.

This transfer degree outlines specific course requirements for students at any participating Oregon community college who plan to transfer to a participating four-year public university and earn a Bachelor of Science in Biology.

This degree is intended for students who know they want to transfer and earn a Bachelor of Science in Biology, but who are *unsure of their intended transfer destination*. Students who are certain of both their major *and* their intended transfer destination should consult an advisor for information on any existing specific articulation agreement or degree that will prescribe their course requirements.

A completed “Core Transfer Map” is guaranteed to transfer to any of the 7 Oregon Public Universities.

Note that in order for a student to successfully transfer to an Oregon public university, students must at a minimum:

1. Earn a grade of a “C-” or better in courses in the major
2. Take courses in the major for a grade— Oregon public universities do not accept “pass/no pass”
3. Earn a cumulative grade point average of 2.0

Students are strongly encouraged to seek advising before their first term of college and after they have completed the 30-35 credits of the Core Transfer Map Requirements.

CORE TRANSFER MAP REQUIREMENTS

		Credits
Writing	WR 121Z	4
Mathematics	MTH 111Z or higher, including STAT 243Z	4-5
Arts & Letters	Select from Discipline Course List	4
	Select another subject from Discipline Course List	4
Natural Sciences	BI 221Z	5
	CH 221Z & CH 227Z	5
Social Sciences	Select from Discipline Course List	4
	Select another subject from Discipline Course List	4
Cultural Literacy	Select additional course from Discipline Course List	4
Core Transfer Map Total		38-39

ASSOCIATE OF SCIENCE, TRANSFER DEGREE IN BIOLOGY (AST-BIOLOGY)

BIOLOGY MAJOR REQUIREMENTS

		Credits
Biology	BI 222Z-223Z	10
Chemistry	CH 222Z & 228Z CH 223Z & 229Z	5 5
Mathematics	MTH 112Z or higher	4-5
Physics	PH 201-203 or PH 211-213	12-15
Biology Major Total		36-40

ADDITIONAL GENERAL EDUCATION REQUIREMENTS

		Credits
Writing	WR 227Z	4
General Education Total		4

ADDITIONAL COURSES AND ELECTIVES

	Credits
Work with an advisor to take courses that will apply to the Biology major. Work with an advisor to take courses that will apply to General Education or the minor of choice. Work with an advisor to take transferable electives to reach 90 credits.	
Electives Total	7-12

BIOLOGY GRAND TOTAL

90

YEAR ONE | AST DEGREE

FALL	Principles of Biology I BI 221Z 5 Cr.	Chemistry I CH 221Z CH 227Z 5 Cr.	English Composition WR 121Z 4 Cr.	Social Science from Discipline List 4 Cr.
WINTER	Principles of Biology II BI 222Z 5 Cr.	Chemistry II CH 222Z CH 228Z 5 Cr.	Algebra MTH 111Z or higher 4 Cr.	Social Science from Discipline List 4 Cr.
SPRING	Principles of Biology II BI 223Z 5 Cr.	Chemistry III CH 223Z CH 229Z 5 Cr.	Trigonometry MTH 112Z or higher 4 Cr.	Cultural Literacy from Discipline List 4 Cr.

YEAR TWO | AST DEGREE

FALL	General Physics with Calculus PH 211S Cr.	OR	General Physics I PH 201 4 Cr.	Technical Writing WR 227Z 4 Cr.	Arts and Letters from Discipline List 4 Cr.
WINTER	General Physics with Calculus PH 212 5 Cr.	OR	General Physics II PH 202 4 Cr.	Electives	Arts and Letters from Discipline List 4 Cr.
SPRING	General Physics with Calculus PH 213 5 Cr.	OR	General Physics III PH 203 4 Cr.	Electives	Electives

ASSOCIATE OF SCIENCE, TRANSFER DEGREE IN BUSINESS (AST-BUSINESS)

ASSOCIATE OF SCIENCE, TRANSFER DEGREE IN BUSINESS (AST-BUSINESS)

INTENDED LEARNING OUTCOMES:

- Integrate diverse cultural perspectives and ethical reasoning and actions into business decisions.
- Integrate diverse cultural perspectives and ethical reasoning and actions into business decisions.
- Demonstrate effective oral and written communication skills.
- Apply critical thinking and analytical reasoning skills to business decisions.

This transfer degree outlines specific course requirements for students at any participating Oregon community college who plan to transfer to a participating four-year public university and earn a Bachelor of Science in Business.

This degree is intended for students who know they want to transfer and earn a Bachelor of Science in Business, but who are *unsure of their intended transfer destination*. Students who are certain of both their major *and* their intended transfer destination should consult an advisor for information on any existing specific articulation agreement or degree that will prescribe their course requirements.

A completed “Core Transfer Map” is guaranteed to transfer to any of the 7 Oregon Public Universities.

Note that in order for a student to successfully transfer to an Oregon public university, students must at a minimum:

1. Earn a grade of a “C-” or better in courses in the major
2. Take courses in the major for a grade— Oregon public universities do not accept “pass/no pass”
3. Earn a cumulative grade point average of 2.0

Students are strongly encouraged to seek advising before their first term of college and after they have completed the 30-35 credits of the Core Transfer Map Requirements.

CORE TRANSFER MAP REQUIREMENTS

Credits

Writing	WR 121Z	4
Mathematics	MTH 105Z or higher	4
Arts & Letters	Select from Discipline Course List	4
	Select from Discipline Course List	4
Natural Sciences	Select Lab Course from Discipline Course List	4
	Select Lab Course from Discipline Course List	4
Social Sciences	EC 201Z	4
	EC 202Z	4
Cultural Literacy	Select additional course from Discipline Course List	4
Core Transfer Map Total		36

ASSOCIATE OF SCIENCE, TRANSFER DEGREE IN BUSINESS (AST-BUSINESS)

BUSINESS MAJOR REQUIREMENTS

Credits

Excel Skills	BA 169Z	4
Introduction to Business	BA 101Z	4
Financial and Managerial Accounting	BA 211Z BA 213Z	4 4
Business Law	BA 226Z	4
Statistics	STAT 243Z	4
Business Major Total		24

GENERAL EDUCATION REQUIREMENTS

Credits

Writing	WR 227Z	4
Communications	COM 111Z	4
General Education Total		8

ADDITIONAL COURSES AND ELECTIVES

Credits

Work with an advisor to take courses that will apply to the Business major.		
Work with an advisor to take courses that will apply to General Education or the minor of choice.		
Work with an advisor to take transferable electives to reach 90 credits.		
Electives Total		22

BUSINESS GRAND TOTAL

90

ASSOCIATE OF SCIENCE, TRANSFER DEGREE IN BUSINESS (AST-BUSINESS)

YEAR ONE | AST DEGREE

FALL	Intro to Business BA 101Z 4 Cr.	Lab Science from Discipline List 4 Cr.	Principles of Economics EC 201Z 4 Cr.	Arts and Letters from Discipline List 4 Cr.
WINTER	Principles of Biology II BI 222Z 5 Cr.	Communications COM 111Z 4 Cr.	English Composition WR 121Z 4 Cr.	Arts and Letters from Discipline List 4 Cr.
SPRING	Excel Skills BA 169Z 4 Cr.	Business Law 226Z 4 Cr.	Principles of Economics EC 202Z 4 Cr.	MTH 105Z or higher 4 Cr.

YEAR TWO | AST DEGREE

FALL	Principles of Accounting BA 211Z 4 Cr.	Lab Science from Discipline List 4 Cr.	Cultural Literacy from Discipline List 4 Cr.	Electives
WINTER	Electives	Electives	Statistics STAT 243Z 4 Cr.	Electives
SPRING	Principles of Accounting III BA 213Z 4 Cr.	Electives	Electives	Technical Writing WR 227Z 4 Cr.

ASSOCIATE OF ARTS, TRANSFER DEGREE IN ENGLISH (AAT-ENGLISH)

ASSOCIATE OF ARTS, TRANSFER DEGREE IN ENGLISH (AAT-ENGLISH)

INTENDED LEARNING OUTCOMES:

- Demonstrate understanding of literary works in context, including the ways texts engage notions of genre, culture, history, class, race, gender and/or sexuality.
- Use a variety of written, verbal, and/or multimedia forms to respond to, analyze, and/or produce texts.

This transfer degree outlines specific course requirements for students at any participating Oregon community college who plan to transfer to a participating four-year public university and earn a Bachelor of Arts in English.

This degree is intended for students who know they want to transfer and earn a Bachelor of Arts in English, but who are *unsure of their intended transfer destination*. Students who are certain of both their major *and* their intended transfer destination should consult an advisor for information on any existing specific articulation agreement or degree that will prescribe their course requirements.

A completed “Core Transfer Map” is guaranteed to transfer to any of the 7 Oregon Public Universities.

Note that in order for a student to successfully transfer to an Oregon public university, students must at a minimum:

1. Earn a grade of a “C-” or better in courses in the major
2. Take courses in the major for a grade— Oregon public universities do not accept “pass/no pass”
3. Earn a cumulative grade point average of 2.0

Students are strongly encouraged to seek advising before their first term of college and after they have completed the 30-35 credits of the Core Transfer Map Requirements.

CORE TRANSFER MAP REQUIREMENTS

Credits

Writing	WR 121Z	4
Mathematics	MTH 105Z or higher	4
Arts & Letters	Any 200-level ENG or WR from Discipline Course List	4
	Any 200-level ENG or WR from Discipline Course List	4
Natural Sciences	Select Lab Course from Discipline Course List	4
	Select Lab Course from Discipline Course List	4
Social Sciences	Select from Discipline Course List	4
	Select from Discipline Course List	4
Cultural Literacy	Select from Discipline Course List	4
Core Transfer Map Total		36

ASSOCIATE OF ARTS, TRANSFER DEGREE IN ENGLISH (AAT-ENGLISH)

ENGLISH MAJOR REQUIREMENTS

Credits

English	Any 200-level ENG from Discipline Course List	4
<i>Cannot be used for Arts & Letters</i>	Any 200-level ENG from Discipline Course List	4
English Major Total		8

GENERAL EDUCATION REQUIREMENTS

Credits

Writing	WR 122Z or WR 227Z	4
General Education Total		4

ADDITIONAL COURSES AND ELECTIVES

Credits

Second Language	SPAN 201	4
	SPAN 202	4
	SPAN 203	4
Work with an advisor to take courses that will apply to the English major. Work with an advisor to take courses that will apply to General Education or the minor of choice. Work with an advisor to take transferable electives to reach 90 credits.		
Electives Total		30

ENGLISH GRAND TOTAL

90

YEAR ONE | AAT DEGREE

FALL	Arts and Letters from Discipline List 200-Level ENG or WR 4 Cr.	Social Sciences from Discipline List 4 Cr.	English Composition WR 121Z 4 Cr.	
WINTER	Arts and Letters from Discipline List 200-Level ENG or WR 4 Cr.	Social Sciences from Discipline List 4 Cr.	English Composition II WR 122Z 4 Cr.	Technical Writing WR 227Z 4 Cr.
SPRING	Elective 4 Cr.	Cultural Literacy from Discipline List 4 Cr.	MTH 105Z or higher 4 Cr.	Elective 4 Cr.

YEAR TWO | AAT DEGREE

FALL	Any 200-Level ENG 4 Cr.	Lab Science from Discipline List 4 Cr.	Elective 4 Cr.	Foreign Language 4 Cr.
WINTER	Any 200-Level ENG 4 Cr.	Lab Science from Discipline List 4 Cr.	Elective 4 Cr.	Foreign Language 4 Cr.
SPRING	Elective 4 Cr.	Elective 4 Cr.	Elective 4 Cr.	Foreign Language 4 Cr.

OREGON TRANSFER MODULE (OTM)

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

GUIDELINES:

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

FOUNDATIONAL SKILLS

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

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

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

DISCIPLINE REQUIREMENTS

- **Arts & Letters:** Students must complete three courses chosen from two or more disciplines.
- **Social Science:** Students must complete three courses chosen from two or more disciplines.
- **Science/Mathematics:** Students must complete two courses totaling at least ten credits, including at least one laboratory courses in biological and/or physical science.

ELECTIVES:

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

INSTITUTIONAL REQUIREMENTS:

- Earn a "C" grade or higher on all Clatsop Community College coursework.
- Have earned a "C" grade or higher on all coursework transferred from other institutions that is to be included in a Clatsop Community College OTM, degree or certificate.
- You may apply a maximum of 12 credits of "pass" grades toward the OTM. However, Foundational Skills courses must be taken for a grade.
- Complete at least 12 credits at Clatsop Community College.

ASSOCIATE OF GENERAL STUDIES

ASSOCIATE OF GENERAL STUDIES (AGS)

ROLE DESCRIPTIONS:

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

INTENDED LEARNING OUTCOMES:

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

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

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

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

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

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

COMPLETE THE FOLLOWING GENERAL EDUCATION REQUIREMENTS:

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

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

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

**Arts & Letters /
Social Sciences:** Six credits of Arts & Letters, Social Science and/or Science courses.

GUIDELINES

- Complete a total of 90 credits of college-level coursework. College-level courses are numbered 100 or higher. Courses numbered 001-099 are considered developmental.
- Complete at least 24 credits at Clatsop Community College.
- Specific courses must be passed with a grade of "C" or better.
- Maximum 24 credits "P" may be used toward degree.
- Cumulative GPA must be at least 2.0 at the time when the degree is awarded.



ASSOCIATE OF APPLIED SCIENCE (AAS)

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

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

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

GENERAL REQUIREMENTS

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

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

Mathematics: Four credits, with a "C", "P" or better, in MTH 065 Mathematics for the Applied Sciences or MTH 095 Intermediate Algebra or a higher numbered math course.

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

Human Relations: 1 course from the following list: BA 206, BA 285, BLD 207, COM 115, COM 219, MAS 207, or PSY 101

PROGRAM COURSES

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

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

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

GUIDELINES

- Complete a total of 90 credits of college-level coursework. College-level courses are numbered 100 or higher. Courses numbered 001-099 are considered developmental.
- Complete at least 24 credits at Clatsop Community College.
- Specific courses must be passed with a grade of "C" or better.
- Maximum 24 credits "P" may be used toward degree.
- Cumulative GPA must be at least 2.0 at the time when the degree is awarded.

ASSOCIATE OF APPLIED SCIENCE (AAS)

ANNUAL NOTICE OF NONDISCRIMINATION IN CAREER AND TECHNICAL EDUCATION PROGRAMS

Clatsop Community College offers Career and Technical Education (CTE) programs in Automotive Technician, Business-Accounting or Management, Computer Aided Design and Drafting, Computer Science, Construction Trades and Apprenticeship, Criminal Justice, Emergency Medical Technician, Fire Science, Historic Preservation and Restoration, Maritime-Vessel Operation or Seamanship, Medical Assistant, Nursing and Certified Nursing Assistant, Welding. Clatsop Community College has an open admission policy. Students must apply for admission and register for credit-bearing classes. The college will take steps to ensure that the lack of English language skills will not be a barrier to admission, participation in career training education programs, or access to services or activities.

The college provides equal opportunity in education and in employment per state and federal law. The college prohibits discrimination against race, color, sex, gender, marital status, religion, national origin, age, sexual orientation, gender identity or expression or disability in any educational program or activity. The following persons have been designated to handle inquiries regarding Title IX/504 compliance, nondiscrimination, equal opportunity, affirmative action, and the Americans with Disabilities Act policies:

Report Violations to:

Anita Jensen, Title IX Coordinator

Lower Library, Suite 102 – Lexington Campus
ajensen@clatsopcc.edu 503-338-2450

Faith Forster, Title II/Section 504 Coordinator Columbia Hall, Suite 111 fforster@clatsopcc.edu
503-338-2313

AVISO ANUAL DE NO DISCRIMINACIÓN EN PROGRAMAS DE EDUCACIÓN PROFESIONAL Y TÉCNICA

Clatsop Community College ofrece programas de Educación Profesional y Técnica (CTE) en Técnico Automotriz, Contabilidad o Administración de Negocios, Diseño y Dibujo Asistido por Computadora, Ciencias de la Computación, Comercio y Aprendizaje en Construcción, Justicia Criminal, Técnico Médico de Emergencia, Ciencias de Incendios, Preservación y Restauración Histórica, Operación de Naves Marítimas o Marinería, Asistente Médico, Asistente de Enfermería y Asistente de Enfermería Certificada, Soldadura. Clatsop Community College tiene una política de admisión abierta. Los estudiantes deben solicitar la admisión y registrarse para clases con créditos. El colegio tomará medidas para asegurar que la falta de habilidades en el idioma inglés no sea una barrera para la admisión, la participación en programas de educación para la formación profesional o el acceso a servicios y actividades.

El colegio ofrece igualdad de oportunidades en la educación y en el empleo de acuerdo con las leyes estatales y federales. El colegio prohíbe la discriminación por raza, color, sexo, género, estado civil, religión, origen nacional, edad, orientación sexual, identidad o expresión de género o discapacidad en cualquier programa o actividad educacional. Las siguientes personas han sido designadas para responder a las preguntas relacionadas con el cumplimiento del Título IX/504, la no discriminación, la igualdad de oportunidades, la acción afirmativa y las políticas de la Ley de Estadounidenses con Discapacidades:

Anita Jensen, Oficial de Acción Afirmativa / Equidad de Género (Título IX)

Lower Library, Suite 102 – Lexington Campus
ajensen@clatsopcc.edu 503-338-2450

Faith Forster, Coordinadora del Título II / Sección 504

Columbia Hall, Suite 111 fforster@clatsopcc.edu 503-338-2313

CAREER PATHWAYS • AUTOMOTIVE TECHNICIAN

STARTING OPTIONS

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

COLLEGE NOW/HIGH SCHOOL ARTICULATION COURSES:

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

CAREER PATHWAY CERTIFICATES

AUTOMOTIVE TECHNICIAN

LENGTH OF TRAINING:

Approximately 9 months (12-17+ Credits)

	IT 140 1 Cr.	WLD 100 3 Cr.	AUTO 101 4 Cr.	AUTO 108 4 Cr.	AUTO 120 4 Cr.	AUTO 125 4 Cr.	AUTO 130 4 Cr.	AUTO 135 4 Cr.	AUTO 209 4 Cr.	AUTO 210 4 Cr.	AUTO 224 4 Cr.	AUTO 229 4 Cr.	AUTO 230 4 Cr.	AUTO 234 4 Cr.
AUTOMOTIVE TECHNICIAN	•		•	•		•	• or 229					• or 130		
CHASSIS/SUSPENSION					•		•			•				
DRIVABILITY BASICS				•		•					•			•
ELECTRICAL/ ELECTRONICS						•		•					•	
POWERTRAIN BASICS				•					•			•		
HIGH SCHOOL	•	•	•			•								

ONE YEAR CERTIFICATE

AUTOMOTIVE TECHNICIAN

LENGTH OF TRAINING:

Approximately 9 months (48+ Credits)

AAS DEGREE

AUTOMOTIVE TECHNICIAN

LENGTH OF TRAINING:

Approximately 24 months (minimum 92 Credits)

CLASSES:

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

ADDITIONAL AAS DEGREE OPTIONS

BUSINESS MANAGEMENT

LENGTH OF TRAINING:

Depends on coursework completed for AAS Automotive Technician.

CAREERS

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

CAREERS

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

CAREERS

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

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

CAREERS

- Transportation Supervisor/Manager
- Service Department Manager

AUTOMOTIVE TECHNICIAN

CAREER PATHWAY CERTIFICATES *or* ONE-YEAR CERTIFICATE *or* ASSOCIATE OF APPLIED SCIENCE DEGREE

LEARNING OUTCOMES

ROLE DESCRIPTIONS

The Automotive Technician Program is designed to prepare persons intending to enter the workforce as entry-level technicians in the automotive repair industry. Learning experiences in this program are designed to assist the student in realizing the following outcomes:

PROGRAM LEARNING OUTCOMES: ONE-YEAR CERTIFICATE

1. Performing quality mechanical diagnosis and repairs to automotive systems.
2. Applying personal employability skills, including work time management and communication skills, to maximize continued employment.
3. Assessing and resolving safety issues in the work environment using all the senses.

PROGRAM LEARNING OUTCOMES: AUTOMOTIVE AAS DEGREE

1. Performing quality mechanical diagnosis and repairs to automotive systems.
2. Applying personal employability skills, including work time management and communication skills, to maximize continued employment.
3. Assessing and resolving safety issues in the work environment using all the senses.
4. Assessing, prioritizing, and managing work tasks with a concern for customer satisfaction and fiscal responsibility.
5. Applying theory in assessing and diagnosing computer, module-based automotive repairs.

JOB DESCRIPTION:

The automotive program at CCC is a real world, work based program of study and experience in the motor vehicle repair trade. It prepares those with automotive desire and aptitude to become the auto repair workforce for a hungry industry. Training is done with up-to-date, industry recognized equipment and instruction which meets national standards. The facility and its instruction is reviewed regularly by the CCC Automotive Advisory Committee composed of industry and service professionals from the local area, so you can be assured that your training experience will relate to what's really out there. Successful completion of the Automotive Technology AAS Degree will prepare you to be a solid entry-level technician.

EMPLOYMENT OPPORTUNITIES:

The need for trained and competent technicians in this field is critical, and job outlooks are very good. This occupation is expected to grow at about the statewide average, while total job openings are projected to be much higher than the statewide average. Projected annual job openings in Oregon are running nearly 400 per year.

POTENTIAL EARNINGS:

Average hourly wage for Oregon is \$25.46, with top experienced wages running up to \$37.48 per hour. Statewide average annual income for this occupation is just above \$52,968.

ENTRANCE REQUIREMENTS:

If you have either a high school diploma or a GED®, the next step is to take a placement test to determine your basic proficiency in math and reading/writing.

CAREER PATHWAY AUTOMOTIVE

COURSE #	COURSE TITLE	CREDITS
AUTO 101	Introduction to Auto. Technology	4
AUTO 108	Engine Fundamentals and Repair	4
AUTO 125	Electrical / Electronics I	4
AUTO 130	Brake System I	4
or	--- or ---	
AUTO 229	Engine Diagnosis and Service	(4)
IT 140	Industrial Safety***	1

TOTAL CREDITS:

17

For More Information See Career Pathways:

Automotive Technician

Automotive Technician - Chassis/Suspension Automotive Technician - Drivability Basics

Automotive Technician - Electrical/Electronics

Automotive Technician - Powertrain Basics

* Minimum grade "C", "P" or higher. Math courses numbered higher than MTH 095 may be substituted.

*** IT 140 uses an online format. Satisfactory completion of this class is required before taking classes in any of the shop facilities.

AUTOMOTIVE TECHNICIAN

YEAR ONE | ONE-YEAR CERTIFICATE

FALL	Intro to Automotive Technology AUTO 101 4 Cr.	Brake Systems I AUTO 130 4 Cr.	Industrial Safety *** IT 140 1 Cr.	Fundamentals of Public Speaking COM 111Z 4 Cr.	Beginning Welding WLD 150 2 Cr.
WINTER	Steering & Suspension I AUTO 120 4 Cr.	Electrical / Electronics I AUTO 125 4 Cr.	Math for Applied Sciences* MTH 065, 4 Cr. Intermediate Algebra* MTH 095, 4 Cr.	Cooperative Work Experience Automotive AUTO 280, 2 Cr. Other Business Class, 2+ Cr. + WLD 1 Cr.	CWE Seminar: Automotive AUTO 281 1 Cr.
SPRING	Engine Fundamentals and Repair AUTO 108, 4 Cr.	Electrical / Electronics II AUTO 135, 4 Cr.	Any Human Relations Course 3 Cr.	English Composition** WR 121Z, 4 Cr.	

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

YEAR TWO | AAS DEGREE

FALL	Advanced Steering, Suspension/Brakes AUTO 210 4 Cr.	Engine Performance I AUTO 224 4 Cr.	Advanced Composition** WR 122Z, 4 Cr. Technical Writing** WR 227Z, 4 Cr.	Computer Aided Design I DRF 213 4 Cr. Other Computer Class, 3 Cr. + WLD 1 Cr.	
WINTER	Automotive HVAC AUTO 230 4 Cr.	Engine Performance II AUTO 234 4 Cr.	Shielded Metal Arc Welding WLD 101 2 Cr.	Intro to Intercultural Communication COM 115, 4 Cr. Any 3 Cr. from the Arts & Letters / Social Science List	Cooperative Work Experience AUTO 280, 2 Cr. Other Business Class, 2+ Cr. + WLD 1 Cr.
SPRING	Fluid Drive & Hydraulic Transmissions AUTO 209, 4 Cr.	Engine Diagnosis & Service AUTO 229, 4 Cr.	Applied Technology Project IT 110, 2 Cr.	Gas Metal Arc Welding WLD 102, 2 Cr.	Any 3 Cr. from the Arts & Letters / Social Science List

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

Note: All AUTO, IT and WLD courses must be completed with a grade "C" or higher.

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

Legend Notes:

* Minimum grade "C", "P" or higher. Math courses numbered higher than MTH 095 may be substituted.

** Minimum grade "C" or higher.

*** IT 140 uses an online format. Satisfactory completion of this class is required before taking classes in any of the shop facilities.

CAREER PATHWAYS • BUSINESS

STARTING OPTIONS

- General Education Diploma
- Adult Basic Education Courses
- High School Diploma
- College Now

COLLEGE NOW / HIGH SCHOOL ARTICULATION

- BA 101Z Introduction to Business (3 Cr.)
- BA 131 Accounting Procedures I (3 Cr.)
- BA 132 Accounting Procedures II (3 Cr.)
- BA 218 Personal Finance (2 Cr.)
- BA 223 Marketing (3 Cr.)
- BA 169Z Spreadsheets (3 Cr.)
- MIC 145 Introduction to Integrated Software (3 Cr.)

CAREER PATHWAY CERTIFICATES

LENGTH OF TRAINING: Approximately 9-12 months (11-19+ Credits)

		Business Professional 16+ Cr.	Entry-Level Accounting Clerk 11+ Cr.	Accounting for Business Management 12+ Cr.	Business Marketing 12+ Cr.	Entrepreneurship 22+ Cr.
BA 101Z	4 Cr.	•			•	•
BA 131	3 Cr.		•	•		•
BA 132	3 Cr.		•	•		
BA 177	3 Cr.			•		•
BA 218	2 Cr.	•	•		•	
BA 223	3 Cr.	•			•	•
BA 206	3 Cr.	• Choose one				
BA 224	3 Cr.	• Choose one				
BA 250	3 Cr.	• Choose one				•
BA 228	3 Cr.		• Choose one	•		•
BA 169Z	4 Cr.	•	• Choose one		• Choose one	• Choose one
CS 131	4 Cr.		• Choose one		• Choose one	• Choose one
MIC 145	3 Cr.		• Choose one		• Choose one	• Choose one

ONE YEAR CERTIFICATE

BUSINESS PROFESSIONAL

LENGTH OF TRAINING:
Approximately 12 months (46+ Credits)

ADDITIONAL DEGREE OPTIONS

- AAS DEGREE - BUSINESS MANAGEMENT
- AAS DEGREE - ACCOUNTING TECHNICIAN

LENGTH OF TRAINING:
Approximately 24+ months (90+ Credits)

CAREERS

- Bookkeeping/Accounting/Auditing Clerk
- Billing/Posting Clerk
- Bill/Account Collector
- Receptionist/Information Clerk
- Office Clerk
- Office/Administrative Support Worker
- Human Resource Assistant
- Court, Municipal or License Clerk
- Customer Service Representative
- Correspondence Clerk
- Office Machine Operator
- Self Employed, Small Business Owner

ADDITIONAL CAREERS

- Administrative Assistant
- Medical Secretary
- Legal Secretary

ADDITIONAL CAREERS

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

RELATED BACHELOR DEGREE OPTIONS

There are opportunities for educational advancement. Some credits may transfer.

- Oregon State University (OSU) Transfer Course Search
- Map of Post-Secondary schools in Oregon

ARTICULATED BACHELOR DEGREE OPTIONS

There are no current articulation agreements to Bachelor Degree programs at this time.

BUSINESS PROFESSIONAL

CAREER PATHWAY CERTIFICATES *or* ONE-YEAR CERTIFICATE PROGRAM

JOB DESCRIPTION:

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

EMPLOYMENT OPPORTUNITIES:

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

POTENTIAL EARNINGS:

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

CAREER PATHWAY BUSINESS PROFESSIONAL

COURSE #	COURSE TITLE	CREDITS
BA 101Z	Introduction to Business	4
BA 218	Personal Finance	2
BA 223	Marketing	3
BA 169Z	Spreadsheets	4
BA 206	Management Fundamentals	3
or --- or ---		
BA 250	Small Business Management	(3)
or --- or ---		
BA 224	Human Resource Management	(3)
TOTAL CREDITS:		16+

Some high schools have Dual Credit opportunities that can count towards this career pathway.

CAREER PATHWAY BUSINESS MARKETING

COURSE #	COURSE TITLE	CREDITS
BA 101Z	Introduction to Business	4
BA 218	Personal Finance	2
BA 223	Marketing	3
BA 169Z	Spreadsheets	4
or --- or ---		
CS 131	Introduction to Computer Information Systems	(4)
or --- or ---		
MIC 145	Introduction to Integrated Software	(3)
TOTAL CREDITS:		12+

Some high schools have Dual Credit opportunities that can count towards this career pathway.

CAREER PATHWAY ENTREPRENEURSHIP

COURSE #	COURSE TITLE	CREDITS
BA 101Z	Introduction to Business	4
BA 131	Accounting Procedures I	3
BA 177	Payroll & Business Tax Accounting	3
BA 223	Marketing	3
BA 228	Automated Accounting	3
BA 250	Small Business Management	3
BA 169Z	Spreadsheets	4
or --- or ---		
CS 131	Introduction to Computer Information Systems	(4)
or --- or ---		
MIC 145	Introduction to Integrated Software	(3)
TOTAL CREDITS:		22+

BUSINESS PROFESSIONAL

LEARNING OUTCOMES

BUSINESS PROFESSIONAL ONE-YEAR CERTIFICATE

ROLE DESCRIPTIONS:

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

INTENDED LEARNING OUTCOMES:

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

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

YEAR ONE | BUSINESS PROFESSIONAL ONE-YEAR CERTIFICATE

FALL	Introduction to Business** BA 101Z 4 Cr.	Accounting Procedures I+** BA 131 3 Cr.	Human Relations in Business** BA 285 3 Cr.	Intro. to Integrated Software** MIC 145 3 Cr.	English Composition** WR 121Z 4 Cr.
WINTER	Principles of Marketing** BA 223 3 Cr.	Accounting Procedures II+** BA 132 3 Cr.	Quantitative Literacy MTH 098, 5 Cr. OR Intermediate Algebra* MTH 095, 4 Cr. OR Math for Applied Sciences* MTH 065, 4 Cr.	Spreadsheets** BA 169Z 4 Cr.	
SPRING	Personal Finance** BA 218 2 Cr.	Automated Accounting** BA 228 3 Cr.	Intro to Computer Info Systems** CS 131 4 Cr.	Intro to Business Law** BA 226Z 4 Cr.	Ethics PHL 102 3 Cr.

Legend Notes:

* Minimum grade "C", "P" or higher. Math courses numbered higher than MTH 095 may be substituted.

** Minimum grade "C" or higher for successful completion of program.

+ Grade "C" or better required in BA 131 as a prerequisite to BA 132.

ACCOUNTING

ASSOCIATE OF APPLIED SCIENCE DEGREE

LEARNING OUTCOMES ACCOUNTING AAS

ROLE DESCRIPTIONS:

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

INTENDED LEARNING OUTCOMES:

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

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

JOB DESCRIPTION:

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

EMPLOYMENT OPPORTUNITIES:

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

CAREER PATHWAY ENTRY-LEVEL ACCOUNTING CLERK

COURSE #	COURSE TITLE	CREDITS
BA 131	Accounting Procedures I *	3
BA 132	Accounting Procedures II +	3
BA 218	Personal Finance	2
BA 228	Automated Accounting	3
or	---	or ---
BA 169Z	Spreadsheets	(4)
or	---	or ---
CS 131	Introduction to Computer Information Systems	(4)
or	---	or ---
MIC 145	Introduction to Integrated Software	(3)
TOTAL CREDITS:		11+

Some high schools have Dual Credit opportunities that can count towards this career pathway.

** Minimum grade of "C" or higher.*

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

ACCOUNTING

YEAR ONE

FALL	Introduction to Business** BA 101Z 4 Cr.	Accounting Procedures I+** BA 131 3 Cr.	Human Relations in Business** BA 285 3 Cr.	Intro. to Integrated Software** MIC 145 3 Cr.	English Composition** WR 121Z 4 Cr.
WINTER	Principles of Marketing** BA 223 3 Cr.	Accounting Procedures II+** BA 132 3 Cr.	Quantitative Literacy MTH 098, 5 Cr. OR Intermediate Algebra* MTH 095, 4 Cr. OR Math for Applied Sciences* MTH 065, 4 Cr.	Spreadsheets** BA 169Z 4 Cr.	
SPRING	Personal Finance** BA 218 2 Cr.	Automated Accounting** BA 228 3 Cr.	Intro to Computer Info Systems** CS 131 4 Cr.	Intro to** Business Law BA 226Z 4 Cr.	Ethics PHL 102 3 Cr.

YEAR TWO | ACCOUNTING TECHNICIAN AAS DEGREE

FALL	Principles of Accounting I** BA 211Z 4 Cr.	Payroll & Business Tax** BA 177 3 Cr.	Management Fundamentals** BA 206, 3 Cr. OR Small Business Management** BA 250, 3 Cr.	Business Communication** BA 214 4 Cr.
WINTER	Principles of Accounting II **+ BA 212 4 Cr.	Fundamentals of Public Speaking COM 111Z, 4 Cr. OR Small Group Discussion COM 219, 4 Cr.	Principles of Economics EC 201Z, 4 Cr. OR Principles of Economics EC 202Z, 4 Cr.	Electives 4 Cr.
SPRING	Principles of Accounting III*** + BA 213Z 4 Cr.	Cooperative Work Experience BA 280, 2 Cr. + OR 3 Cr. Elective (with Advisor Approval)	Cooperative Work Exp. Seminar ++ BA 281, 1 Cr.	Accounting Directed Project ** BA 295A 4 Cr. Electives 3 Cr.

Legend Notes:

* Minimum grade "C", "P" or higher. Math courses numbered higher than MTH 095 may be substituted.

** Minimum grade "C" or higher for successful completion of program.

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

++ The CWE Seminar requirement for any Business degree can be met by completing one of the following courses: BA 281, CS 281, or OA 281.

BUSINESS MANAGEMENT

ASSOCIATE OF APPLIED SCIENCE DEGREE

LEARNING OUTCOMES

BUSINESS MANAGEMENT AAS

ROLE DESCRIPTIONS:

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

INTENDED LEARNING OUTCOMES:

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

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

JOB DESCRIPTION:

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

EMPLOYMENT OPPORTUNITIES:

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

CAREER PATHWAY ACCOUNTING FOR BUSINESS MANAGEMENT

COURSE #	COURSE TITLE	CREDITS	
BA 131	Accounting Procedures I *	3	* Minimum grade of "C" or higher.
BA 132	Accounting Procedures II +	3	
BA 177	Payroll and Business Tax Accounting +	3	+ "C" grade or higher required in preceding course to take this level.
BA 228	Automated Accounting *	3	
TOTAL CREDITS:		12+	

BUSINESS MANAGEMENT

YEAR ONE

FALL	Introduction to Business** BA 101Z 4 Cr.	Accounting Procedures I+** BA 131 3 Cr.	Human Relations in Business** BA 285 3 Cr.	Intro. to Integrated Software** MIC 145 3 Cr.	English Composition** WR 121Z 4 Cr.
WINTER	Principles of Marketing** BA 223 3 Cr.	Accounting Procedures II+** BA 132 3 Cr.	Quantitative Literacy MTH 098, 5 Cr. OR Intermediate Algebra* MTH 095, 4 Cr. OR Math for Applied Sciences* MTH 065, 4 Cr.	Spreadsheets** BA 169Z 4 Cr.	
SPRING	Personal Finance** BA 218 2 Cr.	Automated Accounting** BA 228 3 Cr.	Intro to Computer Info Systems** CS 131 4 Cr.	Intro to** Business Law BA 226Z 4 Cr.	Ethics PHL 102 3 Cr.

YEAR TWO | BUSINESS MANAGEMENT AAS DEGREE

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

Legend Notes:

* Minimum grade "C" or higher. Math courses numbered higher than MTH 095 may be substituted.

** Minimum grade "C" or higher for successful completion of program.

+ Grade "C" or better required in BA 131 as a prerequisite to BA 132.

++ The CWE Seminar requirement for any Business degree can be met by completing one of the following courses: BA 281 or CS 281.

COMPUTER-AIDED DESIGN & DRAFTING

ONE-YEAR CERTIFICATE PROGRAM (CADD TECHNICIAN)

LEARNING OUTCOMES

ROLE DESCRIPTIONS:

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

INTENDED LEARNING OUTCOMES:

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

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

JOB DESCRIPTION:

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

EMPLOYMENT OPPORTUNITIES:

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

POTENTIAL EARNINGS:

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

COMPUTER-AIDED DESIGN & DRAFTING

YEAR ONE | CADD TECHNICIAN ONE-YEAR CERTIFICATE

FALL	Technical Print Interpretation DRF 139, 3 Cr.	OR	Computer* Aided Design I DRF 213 4 Cr.	Basic Design ART 115 3 Cr.	English Composition * WR 121Z 4 Cr.	Technical Electives 3 Cr.
	Print Reading for Construction BLD 140, 3 Cr.					
WINTER	Computer Aided Design II ** DRF 214 4 Cr.	OR	Math for Applied Science* MTH 065, 4 Cr.	Any Human Relations Course, 3 Cr. or 4 Cr.	Graphic Design I ART 225 3 Cr.	Technical Electives 3 Cr.
			Intermediate Algebra* MTH 095, 4 Cr. or higher			
SPRING	Computer Aided Design III * DRF 215 4 Cr.	OR	CADD Directed Project * DRF 295 4 Cr.	Cooperative Work Experience DRF 280, 2 Cr.	Graphic Design II ART 226 3 Cr.	
				Computer Aided Design Practicum DRF 294, 2 Cr.		

* Minimum grade "C" or higher.

Technical electives

Six (6) credits chosen from the following list:

ARCH 215	History of Pacific NW Architecture	3
ART 116	Basic Design II	3
ART 131	Introduction to Drawing	3
BLD 151	Building Codes I	3
BLD 206	Green Building	3
BLD 207	Project Management	3
CS 131	Intro to Computer Information Systems	4
DRF 150	Construction Drawing	3
WR 227Z	Technical Writing	4

CAREER PATHWAYS • CRIMINAL JUSTICE

STARTING OPTIONS

- General Education Diploma
- Adult Basic Education Courses
- High School Diploma
- College Now

CAREER PATHWAY CERTIFICATE

CRIMINAL JUSTICE

LENGTH OF TRAINING:

Approximately 3 - 9 months (minimum 15 Credits)

CLASSES:

- CJ 110 Introduction to Law Enforcement (3 Cr.)
- CJ 111 Introduction to Criminal Justice (3 Cr.)
- CJ 120 Introduction to Judicial Process (3 Cr.)
- CJ 121 Concepts of Criminal Law (3 Cr.)
- CJ 130 Introduction to Corrections (3 Cr.)

CAREER PATHWAY CERTIFICATE

CRIMINAL JUSTICE - PROFESSIONAL SKILLS

LENGTH OF TRAINING:

Approximately 3 - 9 months (minimum 15 Credits)

CLASSES:

- CJ 203 Crisis Intervention (3 Cr.)
- CJ 210 Criminal Investigation (3 Cr.)
- CJ 218 Interview & Interrogation Techniques (3 Cr.)

CHOOSE ONE OF THE CLASSES LISTED BELOW

- CJ 215 Issues in Criminal Justice Supervision and Administration (3 Cr.)
- CJ 219 Introduction to Community Policing (3 Cr.)
- CJ 225 Corrections Law (3 Cr.)
- CJ 232 Introductions of Corrections Casework (3 Cr.)

ADDITIONAL DEGREE OPTIONS

AAS DEGREE - CRIMINAL JUSTICE

LENGTH OF TRAINING:

Approximately 24 months or more (minimum 90 Credits)

CAREERS

- Animal Control - Entry Level
- Claims Investigator
- Correctional Office
- Court Clerk
- Gaming Surveillance/Investigation
- Dispatcher
- Fish & Game Warden
- Homeland Security
- Transportation Security Aide
- Loss Prevention Specialist
- Parole Office
- Police Office
- Private Detective/Investigator
- Private Security
- Probation Office
- Protective Service Worker
- Reserve Police Office
- Security Guard

Additional education and experience can enhance career placement and advancement opportunities.

ADDITIONAL CAREERS

- Port Security Office
- Oregon Youth Authority Group Life Coordinator
- Oregon Youth Authority Parole Office
- Residential Program Aide
- Child Support Specialist

RELATED BACHELOR DEGREE OPTIONS

There are opportunities for educational advancement.
Some credits may transfer.

GENERAL TRANSFER INFORMATION:

- CCC's OUS Transfer Lists A & B
- Oregon University System
- Career Options
- Map of Post Secondary Institutions in Oregon

ARTICULATED BACHELOR DEGREE TRANSFER OPTIONS

There are no current articulation agreements to Bachelor degree programs at this time.

CRIMINAL JUSTICE

ASSOCIATE OF APPLIED SCIENCE DEGREE

LEARNING OUTCOMES:

ROLE DESCRIPTION:

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

INTENDED LEARNING OUTCOMES:

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

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

JOB DESCRIPTION:

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

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

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

EMPLOYMENT OPPORTUNITIES:

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

POTENTIAL EARNINGS:

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

CAREER PATHWAY CRIMINAL JUSTICE

COURSE #	COURSE TITLE	CREDITS
CJ 110	Introduction to Law Enforcement	3
CJ 111	Introduction to Criminal Justice	3
CJ 120	Introduction to Judicial Process	3
CJ 121	Concepts of Criminal Law	3
CJ 130	Introduction to Corrections	3
TOTAL CREDITS:		15

CAREER PATHWAY PROFESSIONAL SKILLS

COURSE #	COURSE TITLE	CREDITS
CJ 203	Crisis Intervention	3
CJ 210	Criminal Investigation	3
CJ 218	Interview & Interrogation Techniques	3
CJ 215 or	Issues in Criminal Justice Supervision and Administration -- or	3
CJ 219 or	Introduction to Community Policing -- or	(3)
CJ 225 or	Corrections Law -- or	(3)
CJ 232	Introductions of Corrections Casework	(3)
TOTAL CREDITS:		15

CRIMINAL JUSTICE

YEAR ONE

FALL	Intro to Criminal Justice CJ 111 3 Cr.	Intro to Corrections CJ 130 3 Cr.	English Composition I * WR 121Z 4 Cr.	Social Science/ Humanities *** 3 Cr.	Electives 3 Cr.
WINTER	Intro to Law Enforcement CJ 110 3 Cr.	English Composition * WR 122Z 4 Cr. OR Technical Report Writing WR 227Z, 4 Cr.	Social Science/ Humanities *** 3 Cr.	Technical Electives 3 Cr.	Electives 3 Cr.
SPRING	Intro to the Judicial Process CJ 120 3 Cr.	Concepts of Criminal Law CJ 121 3 Cr.	Fundamentals of Public Speaking COM 111Z 4 Cr.	Social Science/ Humanities *** 3 Cr.	Intro to Computer Info Systems CS 131, 4 Cr. OR Work Experience CJ 280, 2 Cr.. + Intro to Integrated Software MIC 145, 3 Cr.

YEAR TWO | CRIMINAL JUSTICE AAS DEGREE

FALL	Alcohol and Other Dangerous Drugs CJ 243, 3 Cr.	Crisis Intervention CJ 203, 3 Cr.	Introduction to Intercultural Communications COM 115, 4 Cr.	OR Psychology of Human Relations PSY 101, 3 Cr.	OR Small Group Discussion COM 219, 4 Cr.	Report Writing in Criminal Justice CJ 212, 3 Cr.	Social Science/ Humanities ** 3 Cr.
WINTER	Criminal Justice Workshop CJ 107, 3 Cr.	Criminal Investigation CJ 210, 3 Cr.	Coop. Work Experience CJ 280, 2 Cr. + OR 3 Cr. of Electives Approved by Advisor	CWE Seminar - Criminal Justice CJ 281, 1 Cr.	Quantitative Reasoning MTH 098, 5 Cr. OR Intermediate Algebra MTH 095, 4 Cr. or higher	Technical Electives * 3 Cr.	
SPRING	Interview & Interrogation Techniques CJ 218, 3 Cr.	Coop. Work Experience CJ 280 3 Cr. OR 3 Cr. of Electives Approved by Advisor		Technical Electives 6 Cr.	Electives 3 Cr.		

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

* Minimum grade "C" or higher. | ** Selected from Arts and Letters and Social Science. Psychology and/or sociology strongly recommended.

TECHNICAL ELECTIVES

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

COURSE #	COURSE TITLE	CR	COURSE #	COURSE TITLE	CR
CJ 114	Gender, Race, Class & Crime	3	HS 101	Alcohol Use, Misuse and Addiction	3
CJ 205	Female Offenders	3	HS 102	Drug Use, Misuse and Addiction	3
CJ 215	Issues in CJ Supervision and Admin	3	HS 154	Community Resources	3
CJ 219	Introduction to Community Policing	3	HS 201	Family Alcoholism/Addiction	3
CJ 225	Corrections Law	3	PHL 102	Ethics	3
CJ 230	Intro. to Juvenile Corrections	3	PSY 219	Intro. to Abnormal Psychology	3
CJ 232 or	Intro. to Corrections Casework --- or -	3	SOC 221	Juvenile Delinquency	3
HS 155	Interviewing for Social Services	(3)	COM 112	Persuasive Speech	3
CJ 280	Cooperative Work Experience - C.J.	3	SPAN 101,102, 103	First Year Spanish	4 ea

CAREER PATHWAYS • FIRE SCIENCE

STARTING OPTIONS

- General Education Diploma
- Adult Basic Education Courses
- High School Diploma
- College Now

CAREER PATHWAY CERTIFICATE

FIRE SCIENCE

LENGTH OF TRAINING:

Approximately 6 months (minimum 26 Credits)

CLASSES:

- EMT 151 EMT Part 1 (6 Cr.)
- EMT 152 EMT Part 2 (6 Cr.)
- FRP 101 Principles of Emergency Service (4 Cr.)
- FRP 110 Firefighter Skills I (1 Cr.)
- FRP 111 Firefighter Skills II (1 Cr.)
- FRP 112 Firefighter Skills III (1 Cr.)
- FRP 113 Firefighter Skills I (1 Cr.)
- FRP 114 Firefighter Skills V (1 Cr.)
- FRP 115 Firefighter Skills VI (1 Cr.)
- FRP 190 Introduction to Wildland Firefighting (4 Cr.)

CAREERS

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

CAREERS

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

Education and experience provide for career advancement.

AAS

FIRE SCIENCE

LENGTH OF TRAINING:

Approximately 22 months (minimum 90 Credits)

RELATED BACHELOR DEGREE OPTIONS

There are opportunities for educational advancement. Some credits may transfer.

- Oregon State University (OSU) Transfer Course Search
- Map of Post-Secondary schools in Oregon

ARTICULATED BACHELOR DEGREE OPTIONS

There are no current articulation agreements to Bachelor Degree programs at this time.

CAREERS

- Fire Science Administrator

FIRE SCIENCE

CAREER PATHWAY CERTIFICATE *or* ASSOCIATE OF APPLIED SCIENCE DEGREE

JOB DESCRIPTION:

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

LEARNING OUTCOMES

FIRE SCIENCE: ASSOCIATE OF SCIENCE DEGREE

ROLE DESCRIPTIONS:

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

INTENDED LEARNING OUTCOMES:

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

1. Demonstrate safe practices in the areas of rescue, EMS, and in both emergency and nonemergency situations while under supervision to prevent the loss of life, create incident stabilization, and promote incident stabilization by utilizing appropriate strategy, tactics, firefighter skills, activities, and operations while working as an individual and a member of a team.
2. Explain and apply strategic tactical priorities for safety, rescue, incident control and loss control for situations including: fire suppression, search and rescue, hazardous materials, and disaster management.
3. Use effective written and verbal communication skills to relate information to co-workers, cooperators, and provide outstanding service to the public in the areas of fire prevention, code/standard enforcement, hazard abatement, conflict resolution, fire investigation, as well as in high stress emergency management environments.
4. Analyze one's own and team members' physical and mental health as it relates to job requirements and engage in appropriate self-care actions.
5. Demonstrate professional conduct by displaying a personal code of ethics, positive work ethics, flexibility, teamwork skills, physical fitness safe procedures and sensitivity to diverse cultures and individuals.
6. Apply safety practices to prevent the occurrence and severity of hostile fires, to mitigate the effect of fire on people and to assist in the determination of the cause of such fires.
7. Explain fire service history and culture and how the fire service can change, grow, and adapt to an ever-changing and evolving society using a variety of methodologies and technologies.

Clatsop Community College Structural Fire Science program measures its student's achievement of program outcomes by students successfully passing each program requirement course. Within each course students are given a course summative exam, simulation and scenario exercises, lab skills, in addition to weekly in class participation and homework.

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

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

EMPLOYMENT OPPORTUNITIES:

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

POTENTIAL EARNINGS:

State employment data show the average hourly wage for Oregon fire fighters is \$30.30 (annual average salary of \$60,600). National median pay is \$53,400 per year. In rural areas, firefighting may be a volunteer position.

CAREER PATHWAY FIRE SCIENCE

COURSE #	COURSE TITLE	CREDITS
EMT 151	EMT Part 1	6
EMT 152	EMT Part 2	6
FRP 101	Principles of Emergency Services	4
FRP 110	Firefighter Skills I	1
FRP 111	Firefighter Skills II	1
FRP 112	Firefighter Skills III	1
FRP 113	Firefighter Skills IV	1
FRP 114	Firefighter Skills V	1
FRP 115	Firefighter Skills VI	1
FRP 190	Intro. to Wildland Firefighting	4
TOTAL CREDITS		26

FIRE SCIENCE

YEAR ONE

FALL	EMT - Part 1 EMT 151 6 Cr.	Firefighter Law FRP 156 1 Cr.	Princ. Fire/ Emergency Svc. Safety/ Survival FRP 157 3 Cr.	Fire Codes & Ordinances FRP 172 3 Cr.	Fire Behavior & Combustion FRP 121 4 Cr.	Firefighter Skills I FRP 110 1 Cr.
WINTER	EMT - Part 2 EMT 152 6 Cr.	Fire Protection Hydraulics & Water Supply FRP 158 3 Cr.	Firefighter Skills II FRP 111 1 Cr.	English Composition I* WR 121Z 4 Cr.		
SPRING	Hazmat Ops FRP 164 3 Cr.	Building Construction for Fire Protection FRP 166 3 Cr.	Firefighter Skills III FRP 112 1 Cr.	Fundamentals of Public Speaking COM 111Z 4 Cr.	Intermediate Algebra * MTH 095 or higher 4 Cr.	

YEAR TWO | FIRE SCIENCE AAS DEGREE

FALL	Principles of Emergency Services FRP 101 4 Cr.	Psychology of Human Relations PSY 101 3 Cr.	Firefighter Skills IV FRP 113 1 Cr.	Social Science/Humanities Elective 3-4 Cr.	Technical Electives 4 Cr.
WINTER	Intro to Fire & Emergency Service Admin. FRP 169 3 Cr.	Fire Protection Systems FRP 171 3 Cr.	Firefighter Skills V FRP 114 1 Cr.	Health & Fitness for Life HPE 295 3 Cr.	Technical Electives 4 Cr.
SPRING	Emergency Service Rescue FRP 168 3 Cr.	Firefighting Strategy & Tactics FRP 170 3 Cr.	Fire Prevention FRP 181 3 Cr.	Firefighter Skills VI FRP 115 1 Cr.	Technical Writing* WR 227Z 4 Cr.
				Coop. Work Exp. Fire Science FRP 280 2 Cr.	+ OR CWE Seminar Fire Science FRP 281 1 Cr.
				3 Cr. of Electives as Approved by Advisor	

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

* Minimum grade "C" or higher. | ** Selected from Arts and Letters and Social Science

TECHNICAL ELECTIVES

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

COURSE #	COURSE TITLE	CREDITS
BI 231, 232, 233	Human Anatomy and Physiology I, II, III	4 ea
EMT 140	Medical Terminology	3
EMT 176	Patient Transportation	2
EMT 177	Communication and Documentation	2
FRP 155	Instructional Methodology	2
FRP 174	Fire Investigation	3
FRP 190	Intro. to Wildland Firefighting	4
FRP 280	Cooperative Work Experience - Fire Science	2

CAREER PATHWAYS • HISTORIC PRESERVATION

STARTING OPTIONS

- General Education Diploma
- Adult Basic Education Courses
- High School Diploma
- College Now

CAREER PATHWAY CERTIFICATE

HISTORIC PRESERVATION AND RESTORATION

LENGTH OF TRAINING:

Approximately 3–6 months (minimum 17 Credits)

CLASSES:

- BLD 101 Intro to Historic Preservation (2 Cr.) **or**
BLD 210 Historic Preservation I (3 Cr.)
- BLD 110 Construction Safety for Historic Preservation (1 Cr.)
- BLD 111 Tool Safety for Historic Preservation (1 Cr.)
- BLD 140 Print Reading for Construction (3 Cr.)
- DRF 213 Computer Aided Design I (4 Cr.)
- Historic Preservation Workshops (4-6 Cr.)

CAREER

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

ONE YEAR CERTIFICATE

HISTORIC PRESERVATION AND RESTORATION

LENGTH OF TRAINING:

Approximately 9 months (minimum 47 Credits)

CAREER

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

AAS DEGREE

HISTORIC PRESERVATION AND RESTORATION

LENGTH OF TRAINING:

Approximately 21 months (minimum 90 Credits)

HISTORIC PRESERVATION & RESTORATION

CAREER PATHWAY CERTIFICATE *or* ONE-YEAR CERTIFICATE *or* ASSOCIATE OF APPLIED SCIENCE DEGREE

LEARNING OUTCOMES | CERTIFICATE

ROLE DESCRIPTIONS:

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

INTENDED LEARNING OUTCOMES:

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

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

LEARNING OUTCOMES | AAS DEGREE

ROLE DESCRIPTIONS:

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

INTENDED LEARNING OUTCOMES:

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

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

This program prepares individuals for work in the building trades with an emphasis on the preservation and restoration of historic and vintage residential and commercial buildings.

The program offers both historic preservation theory and practical hands-on construction techniques. Students gain the necessary knowledge, skills and work habits to successfully plan, then renovate and/or restore structures in historically accurate ways utilizing both traditional and modern materials and techniques. Graduates will be able to work as remodelers, carpenters, subcontractors and general contractors.

EMPLOYMENT OPPORTUNITIES

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

POTENTIAL EARNINGS

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

CAREER PATHWAY HISTORIC PRESERVATION AND RESTORATION CERTIFICATE

COURSE #	COURSE TITLE	CREDITS
BLD 101	Intro to Historic Preservation	2
or	--- or ---	
BLD 210	Historic Preservation	(3)
BLD 110	Construction Safety for Historic Preservation	1
BLD 111	Tool Safety for Historic Preservation	1
BLD 140	Print Reading for Construction	3
DRF 213	Computer Aided Design I	4
	Historic Preservation Workshops *	4-6
TOTAL CREDITS:		17

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

HISTORIC PRESERVATION & RESTORATION

YEAR ONE | ONE-YEAR CERTIFICATE

FALL	Introduction to Historic Preservation* BLD 101 2 Cr.	Construction Safety for Historic Preservation* BLD 110 1 Cr.	Tool Safety for Historic Preservation* BLD 111 1 Cr.	Print Reading for Construction* BLD 140 3 Cr.	Construction Math* BLD 104 2 Cr.	Workshops 4 Cr.	Computer Aided Design DRF 213 4 Cr.
WINTER	Residential Materials & Methods* BLD 103 3 Cr.	Construction Drawing DRF 150 3 Cr.	Workshops 5 Cr.	Math for Applied Science* MTH 065 4 Cr.	Intermediate Algebra* MTH 095 4 Cr. or higher		
SPRING	English Composition* WR 121Z 4 Cr.	Cooperative Work Experience BLD 280 2 Cr. OR Historic Preservation Practicum BLD 294 2 Cr.	History of Pacific Northwest Architecture ARCH 215 3 Cr.	OR Northwest Architects ARCH 216 3 Cr.	Workshops 4 Cr.		

YEAR TWO | AAS DEGREE

FALL	Historic Preservation I* BLD 210 3 Cr.	Project Management* BLD 207 3 Cr.	Workshops 5 Cr.	Arts & Letters / Social Science Electives 3 Cr.
WINTER	Historic Preservation II* BLD 211 3 Cr.	Green Building* BLD 206 3 Cr.	Workshops 5 Cr.	Technical Writing* WR 227Z 4 Cr.
SPRING	Building Codes I BLD 151* 3 Cr.	Historic Preservation & Restoration Project BLD 295 4 Cr.*	Workshops 3 Cr.	Technical Electives 6 Cr.

* Minimum grade "C".

WORKSHOPS:

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

Construction Skills: BLD 120–BLD 128
Materials: BLD 131–BLD 139
Historic Pres. & Rest. Techniques: BLD 220–BLD 229
Historic Materials: BLD 231–BLD 239

Topics of the above workshops will include:

Materials	Stairs
Foundation Systems	Doors and Windows
Floor Systems	Finish Work
Wall Systems	Moisture and Thermal Protection

TECHNICAL ELECTIVES:

A total of nine (9) credits of electives chosen from courses numbered 100 or higher, including 3 credits from Arts & Letters/Social Science list; however, suggested electives are listed below:

COURSE #	COURSE TITLE	CREDITS
ARCH 215	History PNW Architecture	3
ARCH 216	Northwest Architects	3
ART 225	Graphic Design I	3
ART 226	Graphic Design II	3
ART 131	Introduction to Drawing	3
BA 101Z	Introduction to Business	4
DRF 214	Computer Aided Design II	4
DRF 215	Computer Aided Design III	4
PHL 102	Ethics	3

CAREER PATHWAYS • MARITIME SCIENCE

STARTING OPTIONS

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

COLLEGE NOW/HIGH SCHOOL ARTICULATION COURSES:

- MAS 181 Seamanship I (2 Cr.)
- MAS 182 Seamanship II (2 Cr.)
- MAS 183 Seamanship III (2 Cr.)

CAREER PATHWAY CERTIFICATE

SEAMANSHIP

LENGTH OF TRAINING:

Approximately 3–9 months (minimum 17 Credits)

CLASSES:

- MAS 100 Maritime Occupations (2 Cr.)
- MAS 135 STCW Basic Safety Training (3 Cr.)
- MAS 164 Introduction to Navigation (3 Cr.)
- MAS 168 Charts, Aids to Navigation and Marine Compasses (3 Cr.)
- MAS 181 Seamanship I (2 Cr.)
- MAS 182 Seamanship II (2 Cr.)
- MAS 183 Seamanship III (2 Cr.)

AAS

VESSEL OPERATIONS

LENGTH OF TRAINING:

Approximately 24 months or more (minimum 90 Credits)

CAREERS

- Ordinary Seaman

CAREERS

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

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

CAREER PATHWAY SEAMANSHIP CERTIFICATE

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

** Classes are available Fall, Winter and Spring terms.*

Some classes are also available Summer term.

*** Course is offered in an individualized format.*

COURSE #	COURSE TITLE	CREDITS
MAS 100	Maritime Occupations *	2
MAS 135	STCW Basic Training *	3
MAS 164	Introduction to Navigation *, **	3
MAS 168	Charts, Aids to Navigation and Marine Compasses	3
MAS 181	Seamanship I *	2
MAS 182	Seamanship II *	2
MAS 183	Seamanship III *	2
TOTAL CREDITS:		17

VESSEL OPERATIONS

ASSOCIATE OF APPLIED SCIENCE DEGREE

LEARNING OUTCOMES

VESSEL OPERATIONS: ASSOCIATE OF APPLIED SCIENCE DEGREE

ROLE DESCRIPTION:

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

INTENDED LEARNING OUTCOMES:

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

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

JOB DESCRIPTION:

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

EMPLOYMENT OPPORTUNITIES:

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

POTENTIAL EARNING:

Wages for sailors and marine oilers average \$30.29 per hour. Captains and mates may earn 3 to 4 times as much, depending upon experience.

VESSEL OPERATIONS

YEAR ONE | AAS DEGREE

FALL	English Composition WR 121Z 4 Cr.	OR	Marine Occupations MAS 100 2 Cr.	STCW Basic Training MAS 135 2 Cr.	Charts, Aids to Navigation & Compasses MAS 168 3 Cr.	Seamanship I MAS 181 2 Cr.	Intro to Engine Room Maintenance & Safety MAS 193 2 Cr.	MAS 963222 0 Cr.
	Pre-Algebra MTH 060, (if needed) 4 Cr.							
WINTER	Math for Applied Sciences MTH 065, 4 Cr.	OR	Industrial Safety IT 140 1 Cr. (Online)	Intro to Watchkeeping MAS 155 2 Cr.	Rules of the Road MAS 175 3 Cr.	Seamanship II MAS 182 2 Cr.	Seamanship III MAS 183 2 Cr.	RFPNW MAS 208 2 Cr.
	Intermediate Algebra MTH 095, 4 Cr.							
SPRING	Leadership & Managerial Skills MAS 207, 4 Cr.	OR	SCTW Proficiency in Survival Craft MAS 138 2 Cr.	Marine Weather, Tides, Currents & Waves MAS 170 3 Cr.	Galley Cooking MAS 184 2 Cr.	Applied Rigging Tech. MAS 189 2 Cr.	Vessel Practicum MAS 190 1 Cr.	Intro to Deck Mach. & Safety MAS 192 2 Cr.
	Psychology of Human Relations PSY 101 3 Cr.							

YEAR TWO | AAS DEGREE

FALL	HAZWOPER Training HM 120 1 Cr.	Radar Observer: Original Endorsement, Unlimited MAS 130 2 Cr.	Intro to Navigation MAS 164 3 Cr.	Practical Navigation MAS 165 2 Cr.	Marine Electronics MAS 180 2 Cr.	Vessel Practicum MAS 190 1 Cr.	Tank Ship Dangerous Liquids MAS 201 3 Cr.
WINTER	Technical Writing WR 227Z 4 Cr.	Humanities or Social Science Course 3 Cr.	Coastal Navigation & Voyage Planning MAS 171 3 Cr.	Small Vessel Operations I MAS 186 2 Cr.	Small Vessel Operations II MAS 187 2 Cr.	Small Vessel Operations III MAS 188 2 Cr.	
SPRING	GS Physical Science Course 4 Cr.	1 Credit of Welding or Vessel/Deckhand Practicum as determined by Advisor	Able Seafarer Training MAS 121 4 Cr.	200 Ton Master Training MAS 124 6 Cr.	Deckhand Practicum MAS 191 1 Cr.		

TECHNICAL ELECTIVES COURSE LIST

Students must complete 35 elective credits chosen from this list of technical electives.

COURSE #	COURSE TITLE	CR
MAS 125	500/1600/Unlimited License Prep	2-8
MAS 127	200 Ton Master Upgrade	1
MAS 130	Radar Observer: Original Endorsement, Unlimited (Suggested)	2
MAS 147	Rules and Regulations (Suggested)	3
MAS 148	Vessel Stability (Suggested)	3
MAS 155	Introduction to Watchkeeping	2
MAS 170	Marine Weather, Tides, Currents & Waves (Suggested)	3
MAS 185	Bridge to Bridge Communication (Suggested)	3
MAS 190	Vessel Practicum (Suggested)	1-3

MAS** Any other Maritime Science course numbered 100 or above may be used for Technical Electives

COURSE #	COURSE TITLE	CR
MAS 201	Tank Ship Dangerous Liquids (Tankerman PIC)	3
MAS 206	ECDIS	2
MAS 207	Leadership & Managerial Skills	4
MAS 208	Ratings Forming Part of a Navigational Watch	2
MAS 280	Marine Cooperative Work Experience	1-4
AUTO 108	Engine Fundamentals and Repair	4
IT 101	Engine Rebuilding - Gasoline	4
IT 110	Applied Technology Project (Suggested)	2
IT 208	Mechanical Drives and Transmission of Power	4
PH 201, 202, 203	General Physics	5 ea
PH 211, 212, 213	Physics with Calculus	5 ea
WLD	Welding, any class (Suggested)	1-3

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

MAS 120; MAS 121; MAS 122; MAS 123; MAS 124; MAS 125

MARITIME SCIENCES

SPECIALIZED TRAINING PROGRAMS AND COURSES IN THE MARITIME SCIENCES

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

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

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

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

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

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

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

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

MARITIME SCIENCE DEPARTMENT'S CLASS FORMAT

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

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

MEDICAL ASSISTANT

ONE-YEAR CERTIFICATE PROGRAM

ROLE DESCRIPTIONS:

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

INTENDED LEARNING OUTCOMES:

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

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

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

ADMISSIONS APPLICATION REQUIREMENTS:

Medical Assisting Program admission is limited, and the process occurs once per year. Applications for fall term are accepted beginning in April of each year and are evaluated in order of receipt. Students applying to the program must demonstrate proficiency in reading, math and writing.

MANDATORY CLINICAL REQUIREMENTS:

Admitted students must meet/pass a list of clinical requirements established by the Oregon Health Authority and/or our clinical facility partners. More information is available upon application to the Program.

JOB DESCRIPTION:

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

EMPLOYMENT OPPORTUNITIES:

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

POTENTIAL EARNINGS:

The average rate of pay for Medical Assistants in Oregon is \$22-\$25/Hr. or \$44,000-\$50,000 annually + benefits.

YEAR ONE | MEDICAL ASSISTANT ONE-YEAR CERTIFICATE

FALL	Medical Assistant Clinical Procedures I* MA 112 3 Cr.	English Composition * WR 121Z 4 Cr.	Office Skills/ Medical Office MA 127 5 Cr.	Body Structure and Function I * MA 120 4 Cr.
WINTER	Medical Assistant Practicum I MA 133 4 Cr.	Applied Math for Medical Assistants ** MTH 063 4 Cr.	Medical Assistant Clinical Procedures II * MA 113 4 Cr.	Body Structure and Function II * MA 121 4 Cr.
SPRING	Technical Writing * WR 227Z 4 Cr.	Pharmacology for Medical Assistants MA 115 3 Cr.	Medical Assistant Practicum II MA 231 5 Cr.	Psychology of Human Relations PSY 101 3 Cr.

* Medical Assisting classes and other required classes for the Medical Assisting certificate must be passed with a minimum grade of "C" or higher.

** MTH 063, MTH 095 or any 100 level or higher math course that includes intermediate algebra. The student must have taken the math course within the past 5 years and achieved a "C" grade or higher.

NURSING

COURSE OF STUDY

The Clatsop Community College Nursing Program is a member of the Oregon Consortium for Nursing Education (OCNE) and offers a competency-based curriculum jointly developed by nursing faculty from the nine OCNE member community colleges and Oregon Health and Science University (OHSU). The core competencies address the need for nurses to be skilled in clinical judgment and critical thinking; evidence-based practice; relationship-centered care; interdisciplinary collaboration; assisting individuals and families in self-care practices for promotion of health and management of chronic and acute illness; end-of-life care; and teaching, delegation, leadership and supervision of caregivers. Acceptance into the Nursing Program allows for non-competitive admission to OHSU School of Nursing.

The OCNE curriculum is designed as a four-year course of study. The first year is devoted to prerequisite/preparatory courses required for application and/or admission to the limited entry Nursing Program (the completion of the prerequisite/preparatory courses may take longer than one academic year). Application and admission to the Nursing Program and successful completion of the second and third years leads to an Associate of Applied Science (AAS) Nursing degree offered by Clatsop

CC. This degree provides the educational eligibility for NCLEX-RN licensure testing. Clatsop graduates who pass the NCLEX-RN exam have the option to continue the fourth year of the OCNE curriculum at OHSU, which leads to a Bachelor of Science degree, with a major in Nursing (BS,N). This can be done either in a face-to-face program at the Portland OHSU campus or the RN/BS Virtual program (the OHSU bachelor's requirement of statistics may be completed at Clatsop but 15 credits of upper division non-nursing courses must be completed through other four-year colleges or universities).

The Clatsop Nursing Program is approved by the Oregon State Board of Nursing (OSBN), 17938 SW Upper Boones Ferry Rd., Portland, OR, 971-673-0685, www.oregon.gov/OSBN.

For more information on the Clatsop Nursing Program, including information on the admissions process, visit: <https://www.clatsopcc.edu/nursing>.

ADMISSIONS APPLICATION REQUIREMENTS

Program admission is limited, and the process occurs once per year. The deadline for submitting nursing application materials for Fall term admission each year is February 15th or the first business day after. Transcripts showing satisfactory completion of Math and Anatomy & Physiology I prerequisites (taken within the previous 7 years to the Fall start of the program), Writing 121Z, with a minimum total of 28 credits of the prerequisite/preparatory courses, must be in the First Stop office by the application deadline to be considered eligible.

Application to the Nursing Program requires a minimum cumulative GPA of 3.0 for all completed prerequisite/preparatory courses. All courses must be completed with a grade of C or better. Pass grades, advanced placement, or CLEP testing scores will not be accepted. For information, see the Nursing Program webpage.

PRE-REQUISITE / REQUIRED PREPARATORY COURSES:

COURSE #	COURSE TITLE	CREDITS
WR 121Z*	English Composition	3-4
WR 122Z or	Advanced Composition --- or ---	3-4
WR 227Z	Technical Writing	3-4
MTH 100* or higher*	Algebra - Intermediate	4
BI 102 or	General Biology --- or ---	
BI 221Z or	Principles of Biology I --- or ---	
GS 112 or	Chemistry and Cell Biology --- or ---	3-5
BI 231*	Human Anatomy and Physiology I	4
BI 232	Human Anatomy and Physiology II	4
BI 233	Human Anatomy and Physiology III	4
BI 234	Introduction to Microbiology	4
NFM 225	Human Nutrition	3-4
PSY 215	Introduction to Developmental Psychology	3
	Arts & Letters Elective	3
	Social Science Electives	3
	Additional Courses**	0-4

*** These courses must be within the 28 credits to meet Minimum Evaluation Requirements for application.**

* MTH 095 may be substituted for this requirement but will not transfer to any 4-year university.

** If all pre-requisite courses are complete and the total is less than 45 credits, any college level (100 or 200) transferable elective may be included to equal 45.

NURSING

COMPLETION WITHIN THE PAST 7 YEARS REQUIREMENT FOR SELECTED COURSES

At the time of application, BI231 and the Math requirement must have been completed within the previous 7 years of the September start of the Nursing Program. In addition, BI232, BI233, and BI234 (while not required to be completed by time of application to the Nursing Program), will need to have been completed within the 7 years before the September start.

ADMISSIONS PROCESS

OCNE Consortium partner schools use shared standards in a point system and a set of core criteria for evaluation of candidates, but selection process, acceptance decisions, and admissions occurs at individual schools. At Clatsop, Nursing Program acceptance is determined by a two-phase, weighted point system from a pool of qualified applicants. The top-ranking individuals will be offered admission to the Nursing Program. Once an offer is made, the applicant will need to pay a non-refundable deposit by a stated deadline to secure their spot. Additionally, in order for applicants to be offered full admission to fall term, all required prerequisite and preparatory courses (minimum 45 credits) must be completed by the end of spring term of the year of admission.

MANDATORY CLINICAL REQUIREMENTS

Admitted students must meet/pass the following requirements within designated time frames (any associated costs are at the student's own expense): immunization validation, TB screening, a urine drug screen, a criminal history background and sex offender check, current American Heart Association (AHA) CPR BLS Provider card which does not expire during the two years of the Nursing Program. Information regarding these requirements will be distributed in a mandatory orientation held in the summer prior to the fall term start. Students unable to meet these requirements and/or submit documentation of completion via CastleBranch within the designated time frames will have their acceptance into the Nursing Program rescinded. Clatsop reserves the right to deny admission to any applicant to the Nursing Program whose background poses a threat, as determined by Clatsop, to the college, nursing profession, and/or health care community.

CLINICAL ROTATIONS

Nursing students attend classes at the Lexington Campus and clinical practicum in Clatsop or neighboring counties. These rotations may be on weekends, evenings or day shifts. Students are expected to have reliable transportation in order to attend required clinical rotations. Face-to-face clinical rotations are dependent on permission from clinical sites to bring students. Clatsop Community College is not responsible if clinical facilities put a limitation on clinical attendance. If this happens, alternative clinical experiences will be explored.

ONLINE INSTRUCTION

The Nursing Program uses online/hybrid instruction for selected courses, communication, assignments, testing and additional content delivery. Students may use their own personal computers, but support will only be provided by College personnel for issues directly related to the use of college email and Canvas (the course management system used by the college). The use of college computers is made available in the Clatsop Community College Library. Hours of operation for the library are published on the College website. A limited number of computers are available for checkout from the library.

PROGRAM PROGRESSION

Students are required to demonstrate continuous and progressive application of nursing scholarship, safe nursing care, appropriate judgment, critical thinking skills, personal health, and professional accountability, and meet program standards as stated in the Nursing Program Student Handbook. The college reserves the right to retain and progress only those students who satisfy these requirements; any student who does not may be dismissed from the Nursing Program. Students must complete both years of the curriculum in sequence and satisfy graduation requirements to earn the Associate of Applied Science (AAS) Degree in Nursing. To continue in the Nursing program and progress to the next term, students must earn a "C" grade or higher in all required nursing courses each term.

SECOND CHANCE

Students applying for a second chance must contact the Director of Nursing & Allied Health for Instructions and/or application. A second chance student is one who is unsuccessful or withdraws from the Clatsop Nursing Program after having begun nursing classes. Students seeking re-entry in this category will be required to audit courses, take exams, complete lab hours and demonstrate readiness to re-enter the Nursing Program. Acceptance is determined by a weighted point scale and contingent on availability of resources and space. Students participating will be required to take NUR111, Nursing Concepts and Clinical Practice for 3 credits as part of the second chance process. A second chance student is only allowed this one additional attempt in the Nursing Program.

NURSING

ASSOCIATE OF APPLIED SCIENCE DEGREE

NURSING: AAS DEGREE

ROLE DESCRIPTIONS:

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

INTENDED LEARNING OUTCOMES:

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

1. A competent nurse bases personal and professional actions on a set of shared core nursing values.
2. A competent nurse uses reflection, self-analysis, and self-care to develop insight.
3. A competent nurse engages in intentional learning.
4. A competent nurse demonstrates leadership in nursing and healthcare.
5. A competent nurse collaborates as part of a healthcare team.
6. A competent nurse is able to practice within, utilize, and contribute to all healthcare systems.
7. A competent nurse practices relationship-centered care.
8. A competent nurse communicates effectively.
9. A competent nurse makes sound clinical judgments.
10. A competent nurse locates, evaluates and uses the best available evidence.

JOB DESCRIPTION:

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

EMPLOYMENT OPPORTUNITIES:

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

POTENTIAL EARNINGS:

The beginning wage in Clatsop County for a new registered nurse is approximately \$45 - \$58 per hour with benefits. Based on that, a full-time position (36 hours/wk) would be \$84,240 - \$108,576/year. [Data per local facilities]. Nationally the median pay for an RN is \$41.38/hr or \$86,070/year. [Data per the U.S. Bureau of Labor Statistics at <https://www.bls.gov/ooh/healthcare/registered-nurses.htm>]

YEAR ONE | NURSING AAS

FALL	Health Assessment & Promotion NRS 110, 9 Cr.	Transferable Elective 3 Cr.	Pharmacology 1 NRS 230, 3 Cr.	Note: All required courses must be completed with a "C" grade or higher to receive the certificate.
WINTER	Acute Care I NRS 112, 6 Cr.	Transferable Elective 3 Cr.	Pathophysiology NRS 232, 3 Cr.	
SPRING	Chronic Care I NRS 111, 6 Cr.	Pharmacology 2 NRS 231, 3 Cr.	Pathophysiology II NRS 233, 3 Cr.	
				WR 123/227Z 0-4 Cr. (If Needed)

Check with the Director of Nursing if your total writing credits total less than 8 credits. An additional writing course may be required.

YEAR TWO | NURSING AAS

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

45 Pre-requisite credits, 60 Nursing credits, 25 elective credits = 130 Total Credits for AAS-Nursing

CAREER PATHWAYS • WELDING

WELDING

STARTING OPTIONS

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

COLLEGE NOW/HIGH SCHOOL ARTICULATION COURSES:

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

CAREER PATHWAY CERTIFICATE

WELDING

LENGTH OF TRAINING:

Approximately 3–6 months (15+ Credits)

CLASSES:

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

RELATED CAREER PATHWAY CERTIFICATES

Six additional Welding certificates are available.

ONE YEAR CERTIFICATE (AWS ENTRY LEVEL WELDING)

WELDING

LENGTH OF TRAINING:

Approximately 9 months (48+ Credits)

CLASSES:

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

AAS DEGREE

WELDING/FABRICATION TECHNOLOGY

CAREERS

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

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

CAREER PATHWAYS • WELDING

WELDING QUALIFICATION

STARTING OPTIONS

- General Education Diploma www.clatsopcc.edu/ged-abe/
- Adult Basic Education Courses
- High School Diploma
- College Now

CAREER PATHWAY CERTIFICATE

WELDING QUALIFICATION

LENGTH OF TRAINING:

Approximately 6 Months (12+ Credits)

CLASSES:

3 Courses for a total of 12-14 Credits

- WLD150 Beginning Welding (8 CR)
- WLD190 Welding Certification Preparation (2-4 CR)
- WLD290 Welding Certification Test (2 CR)

ONE YEAR CERTIFICATE (AWS ENTRY LEVEL WELDING)

WELDING

LENGTH OF TRAINING:

Approximately 9 months (48+ Credits)

CLASSES:

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

AAS DEGREE

WELDING / FABRICATION TECHNOLOGY

ARTICULATED BACHELOR DEGREE TRANSFER OPTIONS

There are no current articulation agreements to Bachelor Degree programs at this time.

CAREERS

- [Tack Welder, Entry-Level Assistant- Welding, Soldering and Brazing Machine Setter, Operator or Tender, Entry-Level Welder](#)
- [Welding, Soldering and Brazing Machine Setter, Operator or Tender, Metal or Plastic Worker, Sheet Metal Worker, Structural Iron and Steel Worker](#)
- [Certified Welding Educator](#)
- [Certified Welding Inspector](#)

Wage Information,
www.qualityinfo.org/oprof

AWS Certifications,
www.aws.org/Certification-and-Education/Professional-Certification

Education, experience and AWS certification provide for career advancement.

RELATED BACHELOR DEGREE OPTIONS

There are opportunities for educational advancement. Some credits may transfer.

- OSU (Oregon State University) Transfer Course Search (CCC courses that transfer to OSU)
- Map of Post-Secondary schools in Oregon

CAREER PATHWAYS • WELDING

ADDITIONAL WELDING CERTIFICATES

STARTING OPTIONS

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

COLLEGE NOW/HIGH SCHOOL ARTICULATION COURSES:

- WLD 101 Shielded Metal Arc Welding Process (6 Cr.)
- WLD 102 Gas Metal Arc Welding Process (6 Cr.)
- WLD 103 Flux Core Arc Welding Process (6 Cr.)
- WLD 104 Gas Tungsten Arc Welding Process (6 Cr.)

CAREER PATHWAY CERTIFICATES

LENGTH OF TRAINING:

Approximately 3-6 months (minimum 12 Credits)

	WLD 101 Shielded Metal Arc Welding Process (6 Cr.)	WLD 102 Gas Metal Arc Welding Process (6 Cr.)	WLD 103 Flux Core Arc Welding Process (6 Cr.)	WLD 104 Gas Tungsten Arc Welding Process (6 Cr.)
SHIELDED METAL ARC & GAS METAL ARC	•	•		
SHIELDED METAL ARC & FLUX CORE ARC	•		•	
SHIELDED METAL ARC & GAS TUNGSTEN ARC	•			•
GAS METAL ARC & FLUX CORE ARC		•	•	
GAS METAL ARC & GAS TUNGSTEN ARC		•		•
FLUX CORE ARC & GAS TUNGSTEN ARC			•	•

ONE YEAR CERTIFICATE (AWS ENTRY LEVEL WELDING)

WELDING

LENGTH OF TRAINING:

Approximately 9 months (48+ Credits)

CLASSES:

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

AAS DEGREE

WELDING / FABRICATION TECHNOLOGY

CAREERS

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

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

WELDING

CAREER PATHWAY CERTIFICATES *or* AMERICAN WELDING SOCIETY ONE-YEAR CERTIFICATE *or* ASSOCIATE OF APPLIED SCIENCE DEGREE

ROLE DESCRIPTIONS:

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

INTENDED LEARNING OUTCOMES

ONE-YEAR WELDING CERTIFICATE

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

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

INTENDED LEARNING OUTCOMES

WELDING AND FABRICATION AAS DEGREE

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

JOB DESCRIPTION:

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

EMPLOYMENT OPPORTUNITIES:

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

POTENTIAL EARNINGS:

State employment data shows that the entry-level wage for Oregon Statewide is \$23.46 with an average wage of \$27.52 (annual average of \$57,243) and the top salary range being \$29.51. National median hourly wages is \$24.50 with wages ranging from \$22.15 to \$36.72 per hour.

PROGRAM REQUIREMENTS:

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

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

WELDING

CAREER PATHWAY CERTIFICATES

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

Please note that Welding credits are interval credits and can be started through the Academic Year, regardless of term.

WELDING

COURSE #	COURSE TITLE	CREDITS
IT 140	Industrial Safety	1
WLD 100	Materials Processing	2
WLD 101	Shielded Metal Arc Welding Process	3
WLD 102	Gas Metal Arc Welding Process	3
WLD 103	Flux Core Arc Welding Process	3
WLD 104	Gas Tungsten Arc Welding Process	3
TOTAL CREDITS:		15

WELDING QUALIFICATION

COURSE #	COURSE TITLE	CREDITS
WLD 150	Beginning Welding	8
WLD 190	Welding Certification Prep.	2-4
WLD 290	Welding Certification Test	2
TOTAL CREDITS:		12+

SHIELDED METAL ARC & GAS METAL ARC

COURSE #	COURSE TITLE	CREDITS
WLD 101	Shielded Metal Arc Welding Process	6
WLD 102	Gas Metal Arc Welding Process	6
TOTAL CREDITS:		12+

SHIELDED METAL ARC & FLUX CORE ARC

COURSE #	COURSE TITLE	CREDITS
WLD 101	Shielded Metal Arc Welding Process	6
WLD 103	Flux Core Arc Welding Process	6
TOTAL CREDITS:		12+

WELDING

Please note that Welding credits are interval credits and can be started through the Academic Year, regardless of term.

SHIELDED METAL ARC & GAS TUNGSTEN ARC

COURSE #	COURSE TITLE	CREDITS
WLD 101	Shielded Metal Arc Welding Process	6
WLD 104	Gas Tungsten Arc Welding Process	6
TOTAL CREDITS:		12+

GAS METAL ARC & FLUX CORE ARC

COURSE #	COURSE TITLE	CREDITS
WLD 102	Gas Metal Arc Welding Process	6
WLD 103	Flux Core Arc Welding Process	6
TOTAL CREDITS:		12+

GAS METAL ARC & GAS TUNGSTEN ARC

COURSE #	COURSE TITLE	CREDITS
WLD 102	Gas Metal Arc Welding Process	6
WLD 104	Gas Tungsten Arc Welding Process	6
TOTAL CREDITS:		12+

FLUX CORE ARC & GAS TUNGSTEN ARC

COURSE #	COURSE TITLE	CREDITS
WLD 103	Flux Core Arc Welding Process	6
WLD 104	Gas Tungsten Arc Welding Process	6
TOTAL CREDITS:		12+

WELDING

YEAR ONE | AWS ENTRY LEVEL WELDING ONE-YEAR CERTIFICATE

FALL	Industrial Safety IT 140*** 1 Cr.	Technical Print Interpretation DRF 139 3 Cr.	Materials Processing WLD 100 2 Cr.	Arc Weld Tech. WLD 140 1 Cr.	Shielded Metal Arc Welding WLD 101 8 Cr.
WINTER	Gas Metal Arc Welding WLD 102 4 Cr.	Flux Core Arc Welding WLD 103 4 Cr.	Flux Core Arc Welding Self-Shielded WLD 105 4 Cr.	Math for Applied Science MTH 065* 4 Cr.	Intermediate Algebra MTH 095* 4 Cr.
SPRING	Any Human Relations Course 3 Cr.	Gas Tungsten Arc Welding WLD 104 6 Cr.	Cooperative Work Experience WLD 280 2 Cr.	Cooperative Work Experience Seminar WLD 281 1 Cr.	English Composition WR 121Z** 4 Cr.
+ OR Arts & Letters or Social Science Elective 3 Cr.					

YEAR TWO | WELDING AND FABRICATION AAS DEGREE

FALL	Welding Fabrication WLD 209 2 Cr.	Adv. Shielded Metal Arc Welding WLD 205 4 Cr.	Adv. Gas Metal Arc Welding WLD 206 4 Cr.	Advanced Composition WR 122Z** 4 Cr.	Technical Writing WR 227Z** 4 Cr.	Computer Aided Design I DRF 213 4 Cr.
WINTER	Welding Fabrication WLD 209 2 Cr.	Adv. Flux Core Arc Welding WLD 207 4 Cr.	Adv. Gas Tungsten Arc Welding WLD 208 4 Cr.	Humanities or Social Science Electives 6 Cr.		
SPRING	Welding Fabrication WLD 209 2 Cr.	Technical Electives 8 Cr.	Cooperative Work Experience WLD 280 2 Cr.	Arts & Letters or Social Science Elective 3 Cr.		

* Minimum grade "C", "P", or higher. Math courses numbered higher than MTH 095 may be substituted.

** Minimum Grade "C" or higher.

*** Offered online.

TECHNICAL ELECTIVES COURSE LIST

Students must complete 8 elective credits chosen from this list of technical electives.

COURSE #	COURSE TITLE	CR
WLD 150	Beginning Welding	1-9
WLD 190	Welding Certification Preparation	1-9
WLD 210	Pipe Welding Certification	1-12
WLD 220	Structural Steel Welding	1-15
WLD 290	Welding Certification	2



HOW TO READ THE SCHEDULE

COURSE NUMBER

The number listed to the left of the course name that is needed to register for the class.

CODES

The key for the codes can be found on the bottom of the page in each section.

📺 • EVENING CLASS

Indicates that the class begins at or after 5:00 p.m.

• • ONLINE CLASS

All activities and course materials will be delivered online. There is no requirement for students to attend any activity at a specific time. Assignments will have deadlines throughout the term. Faculty will be available for help related to the course through communication online, email, phone or other remote method.

HYB • HYBRID CLASS

Course will have some of the instructional materials and other course requirements online. Students will also attend class activities at specific times and at a specific physical location. Some class activities will be delivered remotely via Zoom, other remote methods or online via Canvas in lieu of meeting in-person.

HYFLEX

All activities and course materials will be available online. Students may also optionally attend class activities at specific times and at a specific physical location. There is no requirement for students to attend any activity at a specific time. Some class activities will be delivered remotely via Zoom, other remote methods, or online via Canvas in addition to meeting in-person.

LAB

Indicates that there is additional scheduled lab time as part of the class.

\$ • NO-COST / LOW-COST TEXTBOOKS

Course that meets the No-Cost / Low-Cost Textbook Designation of \$40 or less.

IP • INSTRUCTOR PERMISSION

Students must have permission from course instructor before registering for the class.

AUD • AUDIT

Students participate in the class without the benefit of a grade or credit for a course.

TBD • TO BE DETERMINED

Indicates that special arrangements will need to be made in schedule by either the course instructor or by the registered student.

REM • REMOTE CLASS

Students will meet at a specific time through Zoom or other online methods. Other course information, requirements and materials will be provided online via Canvas or course specific software.

F2F • IN-PERSON CLASS

Direct instruction will be offered in a face-to-face format. Students will attend course activities at specific times and at a specific physical location. Faculty may require online research and the use of Canvas or other online formats to provide course materials, course assignments and assignment submissions.

SECTION ID (SN):

The 2-letter, 1-digit number needed to register for the class.

INSTRUCTOR:

Indicates who teaches the class.

DAY:

The day(s) the class is offered.

M=Monday, **T**=Tuesday, **W**=Wednesday, **R**=Thursday, **F**=Friday, **S**=Saturday, **U**=Sunday

TIME:

The time the class is offered.

CREDITS:

The amount of credits associated with the class.

TUITION / FEES:

The cost or fee to enroll in the class.

START / END DATES:

The specific dates of particular classes within the term. They can be found under each class section.

ACOE-BLD2

Army Corps of Engineers Bld. #2
MERTS, 6565 Liberty Ln., Astoria

ARTB

Art Building
1651 Lexington Ave., Astoria

COLB

Columbia Hall
1651 Lexington Ave., Astoria

FRRC

Fire Response & Research Center
6550 Liberty Ln., Astoria

HST

Historic Preservation Shop
1651 Lexington Ave., Astoria

IMTC

Integrated Manufacturing Tech Center
6540 Liberty Lane, Astoria

MASC

Maritime Science Center
6550 Liberty Ln., Astoria

MVF

M/V Forerunner MERTS, Astoria

OC

Off-Campus location

ONLINE

Online class location

PATR

Patriot Hall Gym, CCC
1651 Lexington Ave., Astoria

REMOTE

Remote class location

SCC

South County Campus 1455 N. Roosevelt,
Seaside

TBD

To Be Determined

TOWL

Towler Hall
1660 Lexington Ave., Astoria

COURSE# / CODES	INSTRUCTOR	DAY	TIME	FEES / LOCATION
INTERVAL CIRCUIT TRAINING				\$105
This workout features a combination of strength and cardio activities set up in a circuit that will provide a high-calorie burn and body sculpting. Each class features different combinations of activities and is a great form of cross training. At the end of the circuit, participants will do core strengthening on the mat and finish with a good stretch.				
F2F	MULLIGAN	MON + WED	7:45-8:35 AM	PATR-305
DATES: JANUARY 10 - MARCH 16				

COURSE# / CODES	SN	INSTRUCTOR	DAY	TIME	CREDITS / LOCATION
DRF150	CONSTRUCTION DRAWING				3 CR
📺 HYB	HE1	GOODENBERGER	R	6:00-8:50 PM	TOWL-306
DRF214	COMPUTER AIDED DESIGN II				4 CR
HYB	HD1	SWERDLOFF	MW	2:00-4:50 PM	IMTC-CAD

COURSE DESCRIPTIONS

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

Courses numbered 199 count as electives and do not meet Foundational Skills or Discipline Studies requirements. Courses numbered 199 are experimental and may later be reviewed and approved to meet Discipline Studies requirements.

A prerequisite for a course:

- Can be met with instructor approval
- Must have a "C" grade or higher

ANTH ANTHROPOLOGY

ANTH 101

INTRODUCTION TO BIOLOGICAL ANTHROPOLOGY

(4.00 Lecture Hrs./Wk.)

4 Credits

This course introduces students to the basic concepts and methods of biological anthropology, including evolutionary theory, modern genetics, the fossil record, primate behavior, the development of culture, and a comparative and holistic approach to studying past and modern humans. Students will explore how biological, ecological, and sociocultural factors intersect to influence human variation.

OFFERED AS NEEDED

♦ ANTH 102

INTRODUCTION TO ARCHAEOLOGY AND PREHISTORY

(4.00 Lecture Hrs./Wk.)

4 Credits

This course introduces students to archaeology as the anthropological study of humans in the past. Students become familiar with the methods that archaeologists use to locate, excavate, and preserve cultural resources, gather and analyze data, and the theories that drive archaeological interpretation. The fundamentals of archaeology are taught within the context of a survey of prehistory.

OFFERED AS NEEDED

♦ ANTH 103

INTRODUCTION TO CULTURAL ANTHROPOLOGY

(4.00 Lecture Hrs./Wk.)

4 Credits

This course introduces students to the basic concepts and methods of cultural anthropology, including fieldwork, ethics, race and racism, sex and gender, language, kinship, marriage, health, politics, religion, economics, and globalization. With a focus on contemporary human cultures, students will examine the basic concepts of ethnocentrism, holism, and cultural relativism, students learn to use a cross-cultural perspective to understand cultural differences and similarities.

OFFERED AS NEEDED

♦ ANTH 201

SEX, SELF, AND SOCIETY: ANTHROPOLOGY OF HUMAN SEXUALITY

(4.00 Lecture Hrs./Wk.)

4 Credits

This course explores human sexuality in cross-cultural perspective. Students will consider the interplay between biology and culture that underlies human behavior, with a particular emphasis on culture. A variety of ethnographic materials will be used to demonstrate the significant role played by culture in the patterning of sexual ideas and behavior around the world.

OFFERED AS NEEDED

APR APPRENTICESHIP

APR 130

PLUMBING APPRENTICESHIP LEVEL 1 PART 1

(6.50 Lecture Hrs./Wk.)

6 Credits

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

FALL, SPRING

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

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

APR 131

PLUMBING APPRENTICESHIP LEVEL 1 PART 2

(6.50 Lecture Hrs./Wk.)

6 Credits

Designed for Oregon state-registered apprentices employed in the plumbing trade. This course provides an introduction to the necessary skills required for the plumbing trade. Working from the most current edition of the Plumbing-Heating-Cooling-Contractors' Assn (PHCC) curriculum, students will cover Lessons 8 - 15. General topics include: piping materials, joining methods, basic math including squares, square roots and geometry, plumbing fixtures and working with building plans and drawings. Students will also use the Uniform Plumbing Code (UPC) with Oregon Amendments; administration, definitions and general regulations.

FALL, SPRING

APR 180

PLUMBING APPRENTICESHIP LEVEL 2 PART 1

(6.50 Lecture Hrs./Wk.)

6 Credits

Designed for Oregon state-registered apprentices employed in the plumbing trade. This course provides an introduction to the necessary skills required for the plumbing trade. Working from the most current edition of the Plumbing-Heating-Cooling-Contractors' Assn (PHCC) curriculum, students will cover Lessons 1 - 16. General topics include: sources and distribution of potable water, water heaters, sewage disposal, drains and stacks. Students will also use the Uniform Plumbing Code (UPC) with Oregon Amendments; administration, definitions and general regulations.

FALL, SPRING

APR 181

PLUMBING APPRENTICESHIP LEVEL 2 PART 2

(6.50 Lecture Hrs./Wk.)

6 Credits

Designed for Oregon state-registered apprentices employed in the plumbing trade. This course provides an introduction to the necessary skills required for the plumbing trade. Working from the most current edition of the Plumbing-Heating-Cooling-Contractors' Assn (PHCC) curriculum, students will cover Lessons 17 - 33. General topics include: working with rough-in sheets and drawings; soldering, cutting and welding; traps, and air in plumbing arenas. Students will also use the Uniform Plumbing Code (UPC) with Oregon Amendments; administration, definitions and general regulations.

FALL, SPRING

APR 230

PLUMBING APPRENTICESHIP LEVEL 3 PART 1

(6.50 Lecture Hrs./Wk.)

6 Credits

Designed for Oregon state-registered apprentices employed in the plumbing trade. This course provides an introduction to the necessary skills required for the plumbing trade. Working from the most current edition of the Plumbing-Heating-Cooling-Contractors' Assn (PHCC) curriculum, students will cover Lessons 1 - 3. General topics include: pre-planning, residential fixtures and appliances; and, industrial fixtures and appliances. Students will also use the Uniform Plumbing Code (UPC) with Oregon Amendments; administration, definitions and general regulations.

FALL, SPRING

APR 231

PLUMBING APPRENTICESHIP LEVEL 3 PART 2

(6.50 Lecture Hrs./Wk.)

6 Credits

Designed for Oregon state-registered apprentices employed in the plumbing trade. This course provides an introduction to the necessary skills required for the plumbing trade. Working from the most current edition of the Plumbing-Heating-Cooling-Contractors' Assn (PHCC) curriculum, students will cover Lessons 4 - 7. General topics include: installation methods; fixture fittings and trims and installation; and, plan types and preparation. Students will also use the Uniform Plumbing Code (UPC) with Oregon Amendments; administration, definitions and general regulations.

FALL, SPRING

APR 280

PLUMBING APPRENTICESHIP LEVEL 4 PART 1

(6.50 Lecture Hrs./Wk.)

6 Credits

Designed for Oregon state-registered apprentices employed in the plumbing trade. This course provides an introduction to the necessary skills required for the plumbing trade. Working from the most current edition of the Plumbing-Heating-Cooling-Contractors' Assn (PHCC) curriculum, students will cover Lessons 1 - 19. General topics include: service professionalism; leaks and drainage problems; types of service and repair; steam systems; Students will also use the Uniform Plumbing Code (UPC) with Oregon Amendments; administration, definitions and general regulations.

FALL, SPRING

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "C" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

APR 281

PLUMBING APPRENTICESHIP LEVEL 4 PART 2

(6.50 Lecture Hrs./Wk.)

6 Credits

Designed for Oregon state-registered apprentices employed in the plumbing trade. This course provides an introduction to the necessary skills required for the plumbing trade. Working from the most current edition of the Plumbing-Heating-Cooling-Contractors' Assn (PHCC) curriculum, students will cover Lessons 20 - 41. General topics include: hot water systems; hydraulic and pump theory; blueprint review; code materials and referenced standards; and; plumbing system tests. Students will also use the Uniform Plumbing Code (UPC) with Oregon Amendments; administration, definitions and general regulations.

FALL, SPRING

ARCH

ARCHITECTURE

ARCH 215

HISTORY OF PACIFIC NORTHWEST ARCHITECTURE

(3.00 Lecture Hrs./Wk.)

3 Credits

Students study Pacific Northwest regional building types, stylistic characteristics and architects. Students will explore the influence of political, social, environmental and economic impacts on architecture.

SPRING; OFFERED ODD YEARS

ARCH 216

NORTHWEST ARCHITECTS

(3.00 Lecture Hrs./Wk.)

3 Credits

An introduction to architects of the Pacific Northwest. Students will examine the lives, influences and contributions of the architects. They will explore stylistic characteristics of the architects' work and its social, environmental and economic impacts.

OFFERED AS NEEDED

ART

ART

ART 115

BASIC DESIGN I

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students complete two-dimensional projects exploring the basic elements and principles of design, gain a basic knowledge of the concepts underlying fundamental composition and formal theory in the visual arts, and develop vocabulary for work and criticism. This is a foundation course for most professions in the visual arts, including architecture, interior architecture, graphic design, landscape design, and all commercial applications. FALL

ART 116

BASIC DESIGN II

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students complete studio exercises exploring the basic elements and principles of three-dimensional design and continue to master the concepts underlying fundamental composition and formal theory in the visual arts. Students gain a fundamental understanding of vocabulary, function, and applications of three-dimensional design concepts, and learn the processes of visual thinking and creative problem-solving.

SPRING

ART 117

BASIC DESIGN III

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students complete both two-and three-dimensional projects that demonstrate a growing understanding of the elements and principles of design with a special focus on color theory. Students explore the creative process within the context of select historical and contemporary art movements while developing skills in visual problem solving.

WINTER

ART 131

FUNDAMENTALS OF DRAWING

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students are introduced to the basic techniques and approaches to drawing with an emphasis on the development of perceptual skills and observational study. Assigned creative projects explore a variety of media, subject matter, and conceptual problems. Intro to Drawing series 131, 132, 133 may be taken in any sequence.

FALL

ART 132

LIFE DRAWING

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students are introduced to the basic techniques and approaches to drawing the human figure with an emphasis on the development of perceptual skills and observational study. Assigned creative projects explore a variety of media with a focus on proportion, foreshortening, anatomy, and the application of techniques inspired by historical and contemporary artistic

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "C" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

practice. Intro to Drawing series 131. 132, 133 may be taken in any sequence.

WINTER

ART 133

EXPRESSIVE DRAWING I

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students are introduced to the basic techniques and approaches to drawing with an emphasis on the development of meaningful content and personal expression. Assigned creative projects are inspired by historical and contemporary artistic practice, and explore a variety of media, as well as thematic development and organization of the picture plane. Intro to Drawing series 131. 132, 133 may be taken in any sequence.

SPRING

ART 161

INTRODUCTION TO PHOTOGRAPHY I

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students learn the fundamentals of operating cameras and producing prints, using both traditional photochemical and contemporary digital technologies. They learn the basics of composition, editing, and expressive use of studio and natural lighting. They study the breadth of contemporary and historical photography and its role in our society. Students cultivate creative processes and study critiquing. Students produce a photo essay on a coherent theme. This class begins the foundations for doing fine arts, professional/commercial, and personal photography.

FALL, WINTER, SPRING

ART 162

INTRODUCTION TO PHOTOGRAPHY II

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Building from the fundamentals of ART 161, students learn to do effective camera work in a wider variety of conditions and to be able to make custom quality prints, working in their choice of digital black-and-white or color, or traditional darkroom prints. They learn standard studio lighting. Students produce a photo essay. They study the breadth of contemporary and historical photography and its role in our society. Students cultivate creative processes and study critiquing. This class builds the foundations for doing fine arts, professional/commercial, and personal photography.

Prerequisite: ART 161.

FALL, WINTER, SPRING

ART 163

INTRODUCTION TO PHOTOGRAPHY III

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Building from the skills of ART 162, students complete learning the use of the full range of camera controls and lenses in a variety of situations. They learn more sophisticated techniques of lighting, digital file capture and processing, and, for those interested, fine arts archival printing in the traditional darkroom. Students undertake an assignment for a publication story or an themed exhibit, and complete it as a digital publication. Digital files and prints are prepared for exhibit or publication. They study the breadth of contemporary and historical photography and its role in our society. Students cultivate creative processes and study critiquing. This class strengthens the foundations for doing fine arts, professional/commercial, and personal photography.

Prerequisite: ART 162.

FALL, WINTER, SPRING

ART 194

INTRODUCTION TO WATERCOLOR I

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students learn the techniques and use of watercolor with special attention to its characteristics as a painting medium. Recommended basic transfer course for landscape architecture and, in most cases provides transfer credit toward studio art elective requirements.

OFFERED AS NEEDED

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "C" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

ART 195

INTRODUCTION TO WATERCOLOR II

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students improve their technique and use of watercolor with special attention to its characteristics as a painting medium. Recommended basic course for landscape architecture and, in most cases, provides transfer credit toward studio art elective requirements.

OFFERED AS NEEDED

ART 196

INTRODUCTION TO WATERCOLOR III

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students develop the techniques and use of transparent watercolor for rendering still life, portraiture and landscape. Recommend basic course for landscape architecture and, in most cases, provides transfer credit toward studio art electives requirement.

OFFERED AS NEEDED

ART 204

HISTORY OF WESTERN ART I

(3.00 Lecture Hrs./Wk.)

3 Credits

Students learn to appreciate and enjoy art, explore Western styles, and relate specific works of art to each other and the ideas that animated the life of their times. This course provides a historical survey of the visual arts in the Western world from the Egyptian through the Romanesque periods.

OFFERED AS NEEDED

ART 205

HISTORY OF WESTERN ART II

(3.00 Lecture Hrs./Wk.)

3 Credits

Students learn to appreciate and enjoy art, explore Western styles, and relate specific works of art to each other and the ideas that animated the life of their times. This course provides a historical survey of the visual arts in the Western world from the Gothic to the Baroque periods.

OFFERED AS NEEDED

ART 206

HISTORY OF WESTERN ART III

(3.00 Lecture Hrs./Wk.)

3 Credits

Students learn to appreciate and enjoy art, explore Western styles, and relate specific works of art to each other and the ideas that animated the life of their times. This course provides a historical survey of the visual arts in the Western world from the Rococo period through the 20th Century.

WINTER, SPRING

ART 225

GRAPHIC DESIGN I

(2.00 Lecture, 2.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students are introduced to the theory and use of digital media in the design process. Students use a variety of tools and techniques for visual communication including typography, page layout, digital imaging and three-dimensional modeling. Design principles and

concepts, creative use of media and critical analysis of work are emphasized.

SUMMER, WINTER, SPRING

ART 226

GRAPHIC DESIGN II

(2.00 Lecture, 2.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students develop their use of tools and techniques of graphic design and the use of digital media in the design process. Students engage more advanced aspects of composition, page layout, digital imaging, and three-dimensional modeling. Creative problem solving, concept development, design applications and communication issues are explored.

Prerequisite: ART 225.

SPRING

ART 231

FUNDAMENTALS OF DRAWING II

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students deepen understanding of the creative process through the study of historical and contemporary art in addition to studio practice. Studio course with an emphasis on the development of concepts and techniques of drawing with increasing sophistication. Students build a personal portfolio that reveals the beginning of an internal search for meaning/content, personal style, and individual expression. Intermediate Drawing series 231, 232, 233 may be taken in any sequence

Prerequisite: ART 131.

FALL

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "C" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

ART 232

LIFE DRAWING II

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students deepen understanding of the creative process through the study of historical and contemporary art in addition to studio practice. Studio course with an emphasis on the development of concepts and techniques of drawing with increasing sophistication. Students build a personal portfolio that reveals the beginning of an internal search for meaning/content, personal style, and individual expression. Intermediate Drawing series 231, 232, 233 may be taken in any sequence.

Prerequisite: ART 132.

WINTER

ART 233

EXPRESSIVE DRAWING II

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students continue to deepen understanding of the creative process through the study of historical and contemporary art in addition to studio practice. Studio course with an emphasis on the development of concepts and techniques of drawing with increasing sophistication. Students continue building a personal portfolio that reveals the beginning of an internal search for meaning/content, personal style, and individual expression. Intermediate Drawing series 231, 232, 233 may be taken in any sequence.

Prerequisite: ART 133.

SPRING

ART 250

INTRODUCTION TO CERAMICS I

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

The student will develop basic skills in ceramics including clay preparation, throwing on the wheel, hand-building, and glaze application.

SUMMER, FALL

ART 251

INTRODUCTION TO CERAMICS II

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

The student will develop basic skills in ceramics including clay preparation, throwing, hand building, glaze application, mixing and applying engobes, stains, and slips.

WINTER

ART 252

INTRODUCTION TO CERAMICS III

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

The student will develop basic skills in ceramics including clay preparation, throwing, hand building, glaze application, mixing and applying engobes, stains, and slips. The student will develop skill in the use of various methods of surface treatments on clay forms, such as stamping, sgraffito, carving, distortion of form, and clay additions.

SPRING

ART 253

CERAMICS – INTERMEDIATE I

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

The student will have the opportunity to further develop the techniques learned in Introduction to Ceramics and will research clay bodies and glazes. The student will understand kiln building, firing methods and advanced techniques in hand-building, throwing, and surface decoration.

Prerequisite: ART 250, 251 or 252.

SUMMER, FALL

ART 254

CERAMICS – INTERMEDIATE II

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

The student will apply the techniques learned in Introduction to Ceramics and develop skill in researching clay bodies and glazes. The student will understand kiln building, firing methods and advanced techniques in hand-building, throwing, and surface decoration.

Prerequisite: ART 250, 251 or 252.

WINTER

ART 255

CERAMICS – INTERMEDIATE III

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

The student will further develop the techniques learned in Introduction to Ceramics and will research clay bodies and glazes. The student will understand kiln building, firing methods and advanced techniques in hand-building, throwing, and surface decoration.

Prerequisite: ART 250, 251 or 252.

SPRING

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

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a “C” grade or higher.

COURSE DESCRIPTIONS

ART 270

INTRODUCTION TO PRINTMAKING I

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students learn techniques for woodcut, monoprint and etching. This is the first course in a year-long sequence recommended for students preparing for architecture, interior architecture, and graphic design programs. Students may work in the media introduced this term or any media they have studied in a previous course.

Prerequisite: None, but drawing and design classes are strongly recommended.

FALL

ART 271

INTRODUCTION TO PRINTMAKING II

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students demonstrate knowledge of the techniques of making original fine art prints acquired through lectures, studio projects, and individual applications. Students may work in the media introduced this term and/or any media they have studied in a previous course.

WINTER, SPRING

ART 272

INTRODUCTION TO PRINTMAKING III

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students demonstrate knowledge of the techniques of making original fine art prints acquired through lectures, studio projects, and individual applications. Students may work in the media introduced this term and/or any media they have studied in a previous course.

OFFERED AS NEEDED

ART 273

PRINTMAKING – INTERMEDIATE I

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students continue to develop skill in printmaking applying the techniques learned in introductory printmaking classes. Students complete independent work that contributes to their personal portfolio.

Prerequisite: ART 270.

FALL, WINTER, SPRING

ART 274

PRINTMAKING – INTERMEDIATE II

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students continue to develop skill in printmaking applying the techniques learned in introductory printmaking classes. Students complete independent work that contributes to their personal portfolio.

Prerequisites: ART 271.

OFFERED AS NEEDED

ART 275

PRINTMAKING – INTERMEDIATE III

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students continue to develop skill in printmaking applying the techniques learned in introductory printmaking classes. Students complete independent work which contributes to their personal portfolio.

Prerequisites: ART 272.

OFFERED AS NEEDED

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

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a “C” grade or higher.

COURSE DESCRIPTIONS

ART 281

INTRODUCTION TO PAINTING I

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students are introduced to the basic techniques and approaches to oil and/or acrylic painting, with an emphasis on working directly from life/direct observation (still life, landscape, and the human figure). Assigned creative projects explore the interrelationships between painting materials, techniques, formal elements and principles, and cognitive meaning inspired by historical and contemporary artistic practice. Intro to Painting series 281, 282, 283 may be taken in any sequence.

Prerequisite: None, but drawing and design classes are strongly recommended.

FALL

ART 282

INTRODUCTION TO PAINTING II

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students continue to develop techniques and approaches to oil and/or acrylic painting investigating a range of subject matter including still life, landscape, the human figure, and abstraction. Assigned creative projects explore the interrelationships between painting materials, techniques, formal elements and principles, and cognitive meaning inspired by historical and contemporary artistic practice. Intro to Painting series 281, 282, 283 may be taken in any sequence.

Prerequisite: None, but drawing and design classes are strongly recommended.

WINTER

ART 283

INTRODUCTION TO PAINTING III

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students continue to develop techniques and approaches to oil and/or acrylic painting in which students investigate meaning/content and the possibility of developing a personal style. Assigned creative projects explore the interrelationships between painting materials, techniques, formal elements and principles, and cognitive meaning inspired by historical and contemporary artistic practice. Intro to Painting series 281, 282, 283 may be taken in any sequence.

Prerequisite: None, but drawing and design classes are strongly recommended.

OFFERED AS NEEDED

ART 284

PAINTING – INTERMEDIATE I

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students deepen understanding of the creative process through the study of historical and contemporary art in addition to studio practice. Students continue building a personal portfolio that reveals the beginning of an internal search for meaning/content, personal style, and individual expression. Studio course with an emphasis on the development of concepts and techniques of painting with increasing sophistication. Intermediate Painting series 284, 285, 286 may be taken in any sequence.

Prerequisite: ART 281.

FALL

ART 285

PAINTING – INTERMEDIATE II

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students continue to deepen their understanding of the creative process through the study of historical and contemporary art in addition to studio practice. Students continue building a personal portfolio that reveals the beginning of an internal search for meaning/content, personal style, and individual expression. Studio with an emphasis on the development of concepts and techniques of painting with increasing sophistication. Intermediate Painting series 284, 285, 286 may be taken in any sequence.

Prerequisite: ART 282.

WINTER

ART 286

PAINTING – INTERMEDIATE III

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students continue building a personal portfolio that reveals the beginning of an internal search for meaning/content, personal style, and individual expression. Studio course with an emphasis on the development of concepts and techniques of painting with increasing sophistication. Intermediate Painting series 284, 285, 286 may be taken in any sequence.

Prerequisite: ART 283.

OFFERED AS NEEDED

ART 291

SCULPTURE – INTERMEDIATE I

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Student will develop skill in basic portrait study emphasizing construction of facial features and form; and finishing sculptural processes.

Prerequisite: ART 276, 277, or 278.

OFFERED AS NEEDED

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

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a “C” grade or higher.

COURSE DESCRIPTIONS

ART 292

SCULPTURE – INTERMEDIATE II

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students continue to develop skill in techniques of sculpture involving basic figure study emphasizing construction of human features.

Prerequisite: ART 276, 277 or 278.

OFFERED AS NEEDED

ART 293

SCULPTURE - INTERMEDIATE III

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students continue to develop skill in techniques of soapstone carving emphasizing form, carving techniques, and finishing sculptural processes. Students will apply techniques introduced in introductory sculpture-stone carving.

Prerequisite: ART 276, 277 or 278.

OFFERED AS NEEDED

ART 294

WATERCOLOR – INTERMEDIATE I

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students complete projects that apply their knowledge of watercolor painting techniques, concepts, and theories of expression. Students complete independent work that contributes to their personal portfolio.

Prerequisite: ART 194, 195, or 196.

SPRING

ART 295

WATERCOLOR – INTERMEDIATE II

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students complete watercolor paintings that demonstrate individual variations of technique. Students complete independent work that contributes to their personal portfolio.

Prerequisite: ART 194, 195, or 196.

OFFERED AS NEEDED

ART 296

WATERCOLOR – INTERMEDIATE III

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students complete watercolor paintings, which demonstrate skill in composition and incorporate theories of expression. Students complete independent work that contributes to their personal portfolio.

Prerequisite: ART 194, 195, or 196.

OFFERED AS NEEDED

AUTO

AUTOMOTIVE TECHNOLOGY

Other Automotive courses listed under Industrial and Manufacturing Technology (IT)

AUTO 101

INTRODUCTION TO AUTOMOTIVE TECHNOLOGY

(80.00 Lecture/Lab Hrs. Total)

4 Credits

Students learn how to operate general shop equipment and tools; identify and respond to safety hazards; gather automotive service information effectively; and perform basic entry level tasks and repairs.

FALL, SPRING

AUTO 108

ENGINE FUNDAMENTALS AND REPAIR

(80.00 Lecture/Lab Hrs. Total)

4 Credits

Students learn the operational theory, types and designs, and internal details of automotive internal combustion engines. Hands-on disassembly, measurement, evaluation, and proper reassembly will be stressed.

SPRING

AUTO 120

STEERING AND SUSPENSION I

(80.00 Lecture/Lab Hrs. Total)

4 Credits

The student will learn the basic components, design, and operation of steering and suspension systems. Tires, wheels, shocks, struts, springs, steering gears and linkages, frame designs, and other components are covered. Many common shop tasks will be utilized and performed.

Prerequisite: AUTO 101.

WINTER

AUTO 125

ELECTRICAL/ELECTRONICS I

(80.00 Lecture/Lab Hrs. Total)

4 Credits

Students will learn the foundations of automotive electrical/electronic system operation, components, tools, circuit types and theory. Batteries, starting systems, and vehicle electrical base distribution will be emphasized in hands-on tasks and classroom exercises.

Prerequisite: AUTO 101.

WINTER

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "C" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

AUTO 130

BRAKE SYSTEMS I

(80.00 Lecture/Lab Hrs. Total) 4 Credits

Students learn the design, components, operation, and service of modern automotive brake systems. Common brake shop tasks and service procedures are utilized throughout the course of instruction.

Prerequisite: AUTO 101.

FALL

AUTO 135 ELECTRICAL/ELECTRONICS II

(80.00 Lecture/Lab Hrs. Total) 4 Credits

Building on the concepts from Electrical/Electronics I, the student will move into operation and diagnosis of vehicle charging systems, lighting systems, power windows and locks, heated accessories, and HVAC controls. Proper R&R and care of trim is addressed. In addition, the student will learn by applying their diagnostic skills to instrumentation systems, cruise control, SRS/air bag systems, body electrical systems, and engine ignition systems.

Prerequisite: AUTO 125.

SPRING

AUTO 209

FLUID DRIVES AND HYDRAULIC TRANSMISSIONS

(80.00 Lecture/Lab Hrs. Total) 4 Credits

Students will learn the fundamentals of today's automatic and manual transmissions, transaxles, 4-Wheel Drive & All Wheel Drive systems, and differential operations. In addition, the course will focus on the electrical, computer, and mechanical controls over various transmissions, transfer case, AWD, and final drive systems.

Prerequisite: AUTO 101.

SPRING

AUTO 210

ADVANCED STEERING, SUSPENSION, AND BRAKES

(80.00 Lecture/Lab Hrs. Total) 4 Credits

Building on the fundamentals of Brake Systems I and Steering and Suspension I, students learn diagnosis of steering, suspension, and brake problems, ABS (anti-lock brake) systems and service, and wheel alignment procedures.

Prerequisite: AUTO 120 and 130.

FALL

AUTO 224

ENGINE PERFORMANCE I

(80.00 Lecture/Lab Hrs. Total) 4 Credits

Students learn the basic functions and operations of electronic fuel control and emissions components and systems. Initial testing and observation of systems operation using scan tools and other diagnostic equipment will be stressed.

Prerequisites: AUTO 125.

FALL

AUTO 229

ENGINE DIAGNOSIS AND SERVICE

(80.00 Lecture/Lab Hrs. Total) 4 Credits

Students develop and demonstrate knowledge of engine/vehicle problem detection and diagnosis as it relates to the entire vehicle. Research, senses skills, tool skills, problem solving, and vehicle testing will be stressed.

Prerequisite: AUTO 108.

SPRING

AUTO 230 AUTOMOTIVE HVAC

(80.00 Lecture/Lab Hrs. Total) 4 Credits

The student will learn the basic components, operation, diagnosis, and repair of vehicle A/C-heater (HVAC) systems. Basic A/C theory, as well as refrigerant handling, component replacement, and system diagnosis will be covered.

Prerequisite: AUTO 125.

WINTER

AUTO 234

ENGINE PERFORMANCE II

(80.00 Lecture/Lab Hrs. Total) 4 Credits

Building on the basics from Engine Performance I, students delve deeper into computer controlled fuel and emission systems diagnosis and testing. Extensive testing using scan tools, exhaust analyzer, engine/ignition analyzer and oscilloscope will be performed.

Prerequisite: AUTO 224.

WINTER

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "Ø" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

BA BUSINESS

BA 101Z

INTRODUCTION TO BUSINESS

(4.00 Lecture Hrs./Wk.)

4 Credits

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.

FALL, WINTER, SPRING

BA 131

ACCOUNTING PROCEDURES I

(3.00 Lecture Hrs./Wk.)

3 Credits

Students prepare to perform simple accounting in service organizations emphasizing the accounting cycle, banking procedures, and payroll accounting. This course emphasizes bookkeeping basics. This is the first course of a sequence in which students learn to organize financial information and prepare financial reports.

FALL

BA 132

ACCOUNTING PROCEDURES II

(3.00 Lecture Hrs./Wk.)

3 Credits

Students learn to perform accounting tasks in merchandising organizations including special journals and ledgers; purchases and sales; inventory and prepaid expenses; tangible long-lived assets; and notes receivables. This course emphasizes bookkeeping basics.

Prerequisite: BA 131.

WINTER

BA 169Z

DATA ANALYSIS USING MICROSOFT EXCEL

(4.00 Lecture Hrs./Wk.)

4 Credits

Covers Microsoft Excel software skills necessary for evidence-based problem-solving, including workbook editing, formula creation, charting, and pivot tables. Emphasizes hand-on learning, using Excel functions to perform data analysis to enhance decision-making.

SUMMER, FALL, WINTER, SPRING

BA 177

PAYROLL & BUSINESS TAX ACCOUNTING

(3.00 Lecture Hrs./Wk.)

3 Credits

Students develop the knowledge and skills needed to complete payroll forms and records and to comply with federal and state requirements.

FALL

BA 206

MANAGEMENT FUNDAMENTALS

(3.00 Lecture Hrs./Wk.)

3 Credits

Students are introduced to the fundamental principles of management as a framework for managerial thinking and operating. A survey of the management functions of planning, organizing, leading, and controlling. A study of organizational interaction and human behavioral conflicts.

Prerequisite: BA 101Z recommended.

FALL

BA 211Z

PRINCIPLES OF FINANCIAL ACCOUNTING

(4.00 Lecture Hrs./Wk.)

4 Credits

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.

FALL

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "Ø" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

BA 212

PRINCIPLES OF FINANCIAL ACCOUNTING II

(4.00 Lecture Hrs./Wk.)

4 Credits

Students learn to use accounting concepts and procedures required to prepare cash flow statements and manage tangible and intangible assets; payroll; partnerships and corporations; long-term investments and liabilities; stocks; and bonds. Students demonstrate knowledge of professional accounting standards. Students will become familiar with a commonly used computerized accounting program or spreadsheet.

Prerequisite: BA 211Z.

WINTER

BA 213Z

PRINCIPLES OF MANAGERIAL ACCOUNTING

(4.00 Lecture Hrs./Wk.)

4 Credits

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.

Prerequisite: BA 212.

SPRING

BA 214

BUSINESS COMMUNICATION

(4.00 Lecture Hrs./Wk.)

4 Credits

Students demonstrate the ability to prepare memos, letters, and informal reports; conduct research; and prepare analytical business and/or technical reports.

Prerequisite: Placement test or instructor approval. Recommended keyboarding of 20+ words per minute.

FALL

BA 218

PERSONAL FINANCE

(2.00 Lecture Hrs./Wk.)

2 Credits

Students develop personal financial skills to help them make better personal monetary decisions.

SUMMER, SPRING

BA 223

PRINCIPLES OF MARKETING

(3.00 Lecture Hrs./Wk.)

3 Credits

Students demonstrate knowledge of the basic issues and practices in marketing management including marketing strategy planning. Students design a marketing mix.

Prerequisite: BA 101Z recommended.

WINTER

BA 224

HUMAN RESOURCE MANAGEMENT

(3.00 Lecture Hrs./Wk.)

3 Credits

Students demonstrate knowledge of principles and techniques related to managing human resources emphasizing hiring practices, training and employee development, and personnel management.

Prerequisite: BA 101Z recommended.

WINTER

BA 226Z

INTRODUCTION TO BUSINESS LAW I

(4.00 Lecture Hrs./Wk.)

4 Credits

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.

SPRING

BA 228

AUTOMATED ACCOUNTING

(3.00 Lecture Hrs./Wk.)

3 Credits

Students demonstrate the ability to use an integrated accounting program to perform accounting functions and solve problems including general ledger, accounts receivable, accounts payable, and inventory.

Prerequisite: BA 131 or 211.

SPRING

BA 250

SMALL BUSINESS MANAGEMENT

(3.00 Lecture Hrs./Wk.)

3 Credits

Students demonstrate knowledge of managing the small business enterprise, emphasizing its general functions, procedures, and problems.

Prerequisite: BA 101Z.

WINTER

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "Ø" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

BA 285

HUMAN RELATIONS IN BUSINESS

(3.00 Lecture Hrs./Wk.)

3 Credits

Students demonstrate an understanding of the communication aspects of interpersonal behavior including perception, power and influence group dynamics, conflict and motivation that are essential for success in the workplace and with friends and family.

FALL

BA 295A

ACCOUNTING DIRECTED PROJECT

(2.00 Lecture, 6.00 Lab Hrs./Wk.)

4 Credits

Students build on knowledge gained in other courses and use critical thinking and problem solving skills to address a significant problem in accounting. Students complete a comprehensive project and make a professional presentation.

Prerequisite: Completion of all but the last quarter of program coursework.

SPRING

BA 295M

BUSINESS MANAGEMENT DIRECTED PROJECT

(2.00 Lecture, 6.00 Lab Hrs./Wk.)

4 Credits

Students build on knowledge gained in other courses and use critical thinking and problem solving skills to address a significant problem in management. Students complete a comprehensive project and make a professional presentation.

Prerequisite: Completion of all but the last quarter of program coursework.

SPRING

BI BIOLOGY

BI 101

GENERAL BIOLOGY - EMPHASIS ON ECOLOGY

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Students investigate a number of significant regional ecosystems, changes that have occurred in these over the past two hundred years, especially human induced changes, and forces driving further potential changes in these systems over the next half century. Students will complete a number of investigations both in and out of lab and will write several short papers. Biology 101 involves four or five field trips. General Biology series 101, 102, 103 may be taken in any sequence.

Prerequisite: Recommended prerequisite or concurrent enrollment of WR 121Z and MTH 060 or higher.

FALL

BI 102

GENERAL BIOLOGY - EMPHASIS ON BIOLOGICAL DIVERSITY

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Students use basic scientific methods to analyze cell diversity; cell division and proliferation; behavior of cell types; introductory genetics; nature of evolution, natural selection, and origin of species. Upon completion, students explore and formulate descriptions, predictions, and explanations based on scientific data. This is a survey course for non-major students seeking to fulfill a lab science general education requirement. General Biology series 101, 102, 103 may be taken in any sequence.

Prerequisite: Recommended prerequisite or concurrent enrollment of WR 121Z and MTH 060 or higher.

WINTER

BI 103

GENERAL BIOLOGY - EMPHASIS ON BEHAVIOR

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Students investigate fundamental science processes and life science concepts with a primary focus on vertebrates and behavioral biology to apply basic scientific methods in an evolutionary approach. Topics include exploration of organism interactions, ecology, diversity, evolutionary relationships, and comparisons of biological systems. Students complete a number of inquiry-based investigations to gather and communicate information. Designed for non-major students seeking to fulfill a general science requirement; sequence need not be taken in order. Includes mandatory early morning laboratory field trips. General Biology series 101, 102, 103 may be taken in any sequence.

Prerequisite: Recommended prerequisite or concurrent enrollment of WR 121Z and MTH 060 or higher.

SPRING

BI 121

BASIC HUMAN ANATOMY & PHYSIOLOGY I

(3.00 Lecture Hrs./Wk.)

3 Credits

Examines the structure and function of the human body including all characteristics, tissues, organs and body systems. Covers integumentary, musculoskeletal, nervous, endocrine systems, as well as the special senses.

Prerequisite: MTH 060 or higher.

OFFERED AS NEEDED

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "Ø" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

BI 122 BASIC HUMAN ANATOMY & PHYSIOLOGY II (3.00 Lecture Hrs./Wk.) 3 Credits Examines the structure and function of the human body including all characteristics, tissues, organs and body systems. Covers cardiovascular, digestive, respiratory, renal, immune, and reproductive systems. Prerequisite: BI 121. OFFERED AS NEEDED	BI 222Z PRINCIPLES OF BIOLOGY: ORGANISMS (4.00 Lecture, 3.00 Lab Hrs./Wk.) 5 Credits 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. Prerequisite: BI 221Z. WINTER
BI 143 MARINE BIOLOGY (3.00 Lecture, 3.00 Lab Hrs./Wk.) 4 Credits Students investigate physical, chemical and biological features of marine environments. Students will examine major groups of marine protists, plants and animals, and interactions within and between these groups. Students will conduct studies of Pacific Northwest intertidal and estuarine ecosystems and will research and report on human impacts on local and worldwide marine ecosystems. Prerequisite: WR 121Z and MTH 060 or higher. OFFERED AS NEEDED	BI 223Z PRINCIPLES OF BIOLOGY: ECOLOGY AND EVOLUTION (4.00 Lecture, 3.00 Lab Hrs./Wk.) 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. Prerequisite: BI 221Z. SPRING
BI 221Z PRINCIPLES OF BIOLOGY: CELLS (4.00 Lecture, 3.00 Lab Hrs./Wk.) 5 Credits 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. Prerequisite: MTH 070 or higher. FALL	BI 231 HUMAN ANATOMY AND PHYSIOLOGY I (3.00 Lecture, 3.00 Lab Hrs./Wk.) 4 Credits Students begin this 3 term sequence by studying the form and function of the dynamic human body which is required for health service occupations and further study in the biological sciences. Students master knowledge and concepts in the organization of the human body, homeostasis, cells and tissues, the skeletal and muscular systems, intro to the nervous system and the special senses. Instruction occurs in the classroom and online through supplemental material. Prerequisite: GS 112, BI 112, or BI 221Z. FALL
BI 222 HUMAN GENETICS (3.00 Lecture Hrs./Wk.) 3 Credits Students will investigate principles and patterns of Mendelian inheritance, population genetics and molecular genetics while focusing on human heredity. Upon completion, students think critically and logically to evaluate and analyze relationships associated with emerging genetic technologies. Prerequisite: GS 112, BI 102, or BI 221Z and MTH 095 or higher. OFFERED AS NEEDED	BI 232 HUMAN ANATOMY AND PHYSIOLOGY II (3.00 Lecture, 3.00 Lab Hrs./Wk.) 4 Credits Reviewing concepts and knowledge of the nervous system, endocrine system and cardiovascular systems, students learn the form and function of the dynamic human body which is required for health service occupations and further study in the biological sciences. Emphasis is placed on the connectivity of body fluids and electrolytes as well as communication between tissues. Instruction occurs in the classroom and online through supplemental material. Prerequisite: BI 231. WINTER

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "C" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

BI 233

HUMAN ANATOMY AND PHYSIOLOGY III

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Students master knowledge and concepts of the lymphatic system, the respiratory system, the gastrointestinal system, the renal system, heredity, development and reproduction. Students learn the form and function of the dynamic human body which is required for health service occupations and further study in the biological sciences. Instruction occurs in the classroom and online through supplemental material.

Prerequisite: BI 232.

SPRING

BI 234

INTRODUCTION TO MICROBIOLOGY

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Students are introduced to the basic microbiology principles by investigating microbial diversity and fundamental characteristics of prions, viruses, prokaryotes and eukaryotes, chemical and growth requirements, epidemiology and pathogenicity, learn general immunology, and investigate common diseases with focus on the relationship between man and microbe. Students will gain practical skills in aseptic techniques and basic lab procedures, including staining. This course is designed for allied health majors and non-major students seeking to fulfill a lab science general education requirement.

Prerequisite: GS 112 or BI 221Z.

FALL, WINTER

BLD BUILDING CONSTRUCTION

BLD 101

INTRO TO HISTORIC PRESERVATION

(2.00 Lecture Hrs./Wk.)

2 Credits

Introduction to issues of historic preservation. Students gain an overview of the field including terminology, standards, history, theory, resources and technologies.

FALL; OFFERED EVERY ODD YEAR

BLD 103

RESIDENTIAL MATERIALS AND METHODS

(3.00 Lecture Hrs./Wk.)

3 Credits

Students learn the function and performance characteristics of basic building materials, components, methods, and sequences in the construction process. Emphasizes residential construction.

WINTER; OFFERED EVEN YEARS

BLD 104 CONSTRUCTION MATH

(2.00 Lecture Hrs./Wk.)

2 Credits

Introduction to mathematical concepts and techniques used in the building trades. Students solve practical problems involving fractions, decimals, percentages, linear measurement, area measurement, volumetric measurement, unit conversions, geometry and trigonometry as used in the building trades. They apply mathematical techniques to estimate building materials and costs.

FALL; OFFERED ODD YEARS

BLD 110

CONSTRUCTION SAFETY FOR HISTORIC PRESERVATION

(10.00 Lecture, 8.00 Lecture/Lab Hrs. Total)

1 Credit

Students learn safe work practices for historic preservation and construction.

FALL; OFFERED ODD YEARS

BLD 111

TOOL SAFETY FOR HISTORIC PRESERVATION

(10.00 Lecture, 8.00 Lecture/Lab Hrs. Total)

1 Credit

Students learn to safely use and maintain hand and power tools for historic preservation and construction.

FALL

BLD 120

CONSTRUCTION SKILLS: SITEWORK

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in materials and methods of sitework. Specific projects determined by instructor and student interest.

FALL, WINTER

BLD 121

CONSTRUCTION SKILLS: FOUNDATION SYSTEMS

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in materials and methods of construction for foundation systems. Specific projects determined by instructor and student interest.

FALL

BLD 122

CONSTRUCTION SKILLS: FLOOR SYSTEMS

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in materials and methods of construction for floor systems. Specific projects determined by instructor and student interest.

OFFERED AS NEEDED

BLD 123

CONSTRUCTION SKILLS: WALL SYSTEMS

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in materials and methods of construction for wall systems. Specific projects determined by instructor and student interest.

OFFERED AS NEEDED

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "Ø" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

BLD 124

CONSTRUCTION SKILLS: ROOF SYSTEMS

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in materials and methods of construction for roof systems. Specific projects determined by instructor and student interest.

SPRING

BLD 125

CONSTRUCTION SKILLS: MOISTURE AND THERMAL PROTECTION

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in materials and methods of construction for moisture and thermal protection. Specific projects determined by instructor and student interest.

OFFERED AS NEEDED

BLD 126

CONSTRUCTION SKILLS: DOORS AND WINDOWS

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in materials and methods of construction for doors and windows. Specific projects determined by instructor and student interest.

OFFERED AS NEEDED

BLD 127

CONSTRUCTION SKILLS: STAIRS

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in materials and methods of construction for stairs. Specific projects determined by instructor and student interest.

OFFERED AS NEEDED

BLD 128

CONSTRUCTION SKILLS: FINISH WORK

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in materials and methods of construction for finish work. Specific projects determined by instructor and student interest.

OFFERED AS NEEDED

BLD 129

BUILDING ANALYSIS AND DOCUMENTATION

(12.00 Lecture Hrs. Total)

1 Credit

Students gain knowledge and practical hands-on experience in analysis and documentation of existing building conditions. Assessment of materials, components and systems will be done to determine qualities and deterioration and an assessment report will be written.

OFFERED AS NEEDED

BLD 131

MATERIALS: CONCRETE

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in applications and properties of concrete in construction. Students will work on a project using concrete as a building material.

OFFERED AS NEEDED

BLD 132

MATERIALS: MASONRY

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in applications and properties of masonry in construction. Students will work on a project using masonry as a building material.

OFFERED AS NEEDED

BLD 133

MATERIALS: PLASTER

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in applications and properties of plaster in construction. Students will work on a project using plaster as a building material.

OFFERED AS NEEDED

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "Ø" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

BLD 134

MATERIALS: WOOD

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in applications and properties of wood in construction. Students will work on a project using wood as a building material.

FALL

BLD 135

MATERIALS: METAL

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in applications and properties of metal in construction. Students will work on a project using metal as a building material.

WINTER

BLD 136

MATERIALS: GLASS

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in applications and properties of glass in construction. Students will work on a project using glass as a building material.

WINTER

BLD 137

MATERIALS: FINISHES

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in applications and properties of finishes in construction. Students will work on a project using finishes as a building material.

OFFERED AS NEEDED

BLD 138

MATERIALS: ADHESIVES

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in applications and properties of adhesives in construction. Students will work on a project using adhesives as a building material.

OFFERED AS NEEDED

BLD 139

MATERIALS ANALYSIS

(12.00 Lecture Hrs. Total)

1 Credit

Students gain knowledge and practical hands-on experience in analysis of construction materials. Students will work on an advanced project involving research, testing and analysis of selected materials.

OFFERED AS NEEDED

BLD 140

PRINT READING FOR CONSTRUCTION

(3.00 Lecture Hrs./Wk.)

3 Credits

Students learn and apply the principles of reading and interpreting construction prints. They learn the purpose of different types of drawings, the types of projections, applications of math, and the use of conventions, scales, symbols, notes, schedules and dimensions in construction drawings.

FALL

BLD 151

BUILDING CODES I – INTRODUCTION TO RESIDENTIAL CODES

(3.00 Lecture Hrs./Wk.)

3 Credits

Introduction to the International and Oregon Residential Codes for One and Two-Family Dwellings. Application of the codes to buildings and occupants, and the role and influence of codes in design and construction is examined. Topics include: general types of construction; special design for wind forces, flood, seismic events and fire safety; egress and accessibility; energy efficiency; structures and materials. **SPRING; OFFERED EVERY ODD YEAR**

BLD 206

GREEN BUILDING

(3.00 Lecture Hrs./Wk.)

3 Credits

Introduction to the theory and practice of sustainable building for new construction and remodeling of historic buildings.

WINTER; OFFERED EVERY ODD YEAR

BLD 207

PROJECT MANAGEMENT

(3.00 Lecture Hrs./Wk.)

3 Credits

Introduction to construction project management, including overview of the design and construction process, construction planning, coordinating construction projects, cost estimating, labor, material and equipment utilization, negotiating, team work, communication, leadership and ethics.

FALL

BLD 210

HISTORIC PRESERVATION I

(3.00 Lecture Hrs./Wk.)

3 Credits

Survey of the history and theory of historic preservation. Students gain knowledge to apply historic preservation methods to renovation and restoration construction projects.

FALL; OFFERED EVERY EVEN YEAR

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "C" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

BLD 211

HISTORIC PRESERVATION II

(3.00 Lecture Hrs./Wk.)

3 Credits

Study of the methodologies for researching and documenting historic buildings. Students complete an historic building analysis and restoration plan for a regional building.

Prerequisite: BLD 210.

WINTER; OFFERED EVERY ODD YEAR

BLD 220

HISTORIC PRESERVATION & RESTORATION

TECHNIQUES: SITEWORK

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in historic site analysis and work. Specific projects determined by instructor and student interest.

OFFERED AS NEEDED

BLD 221

HISTORIC PRESERVATION & RESTORATION

TECHNIQUES: FOUNDATION SYSTEMS

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in materials and methods of historic preservation and restoration construction for foundation systems. Specific projects determined by instructor and student interest.

OFFERED AS NEEDED

BLD 222

HISTORIC PRESERVATION & RESTORATION

TECHNIQUES: FLOOR SYSTEMS

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in materials and methods of historic preservation and restoration construction for floor systems. Specific projects determined by instructor and student interest.

OFFERED AS NEEDED

BLD 223

HISTORIC PRESERVATION & RESTORATION

TECHNIQUES: WALL SYSTEMS

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in materials and methods of historic preservation and restoration construction for wall systems. Specific projects determined by instructor and student interest.

OFFERED AS NEEDED

BLD 224

HISTORIC PRESERVATION & RESTORATION

TECHNIQUES: ROOF SYSTEMS

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in materials and methods of historic preservation and restoration construction for roof systems. Specific projects determined by instructor and student interest.

OFFERED AS NEEDED

BLD 225

HISTORIC PRESERVATION & RESTORATION

TECHNIQUES: MOISTURE & THERMAL PROTECTION

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in materials and methods of historic preservation and restoration construction for moisture and thermal protection. Specific projects determined by instructor and student interest.

OFFERED AS NEEDED

BLD 226

HISTORIC PRESERVATION & RESTORATION

TECHNIQUES: DOORS & WINDOWS

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in materials and methods of historic preservation and restoration construction for doors and windows. Specific projects determined by instructor and student interest.

WINTER

BLD 227

HISTORIC PRESERVATION & RESTORATION

TECHNIQUES: STAIRS

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in materials and methods of historic preservation and restoration construction for stairs. Specific projects determined by instructor and student interest.

OFFERED AS NEEDED

BLD 228

HISTORIC PRESERVATION & RESTORATION

TECHNIQUES: FINISH WORK

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in materials and methods of historic preservation and restoration construction for finish work. Specific projects determined by instructor and student interest.

OFFERED AS NEEDED

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "Ø" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

BLD 229

BUILDING ANALYSIS AND DOCUMENTATION

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in analysis and documentation of existing building conditions. Assessment of materials, components and systems will be done to determine qualities and deterioration and a historic building assessment report will be written.

OFFERED AS NEEDED

BLD 231

MATERIALS: CONCRETE

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in applications and properties of concrete in historic buildings. Students will study the historic use and performance of concrete, analyze pathologies and learn repair methodologies.

OFFERED AS NEEDED

BLD 232

MATERIALS: MASONRY

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in applications and properties of masonry in historic buildings. Students will study the historic use and performance of masonry, analyze pathologies and learn repair methodologies.

SPRING

BLD 233

MATERIALS: PLASTER

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in applications and properties of plaster in historic buildings. Students will study the historic use and performance of plaster, analyze pathologies and learn repair methodologies.

OFFERED AS NEEDED

BLD 234 MATERIALS: WOOD

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in applications and properties of wood in historic buildings. Students will study the historic use and performance of wood, analyze pathologies and learn repair methodologies.

FALL

BLD 235 MATERIALS: METAL

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in applications and properties of metal in historic buildings. Students will study the historic use and performance of metal, analyze pathologies and learn repair methodologies.

FALL

BLD 236 MATERIALS: GLASS

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in applications and properties of glass in historic buildings. Students will study the historic use and performance of glass, analyze pathologies and learn repair methodologies.

OFFERED AS NEEDED

BLD 237

MATERIALS: FINISHES

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in applications and properties of finishes in historic buildings. Students will study the historic use and performance of finishes analyze pathologies and learn repair methodologies.

OFFERED AS NEEDED

BLD 238

MATERIALS: ADHESIVES

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in applications and properties of adhesives in historic buildings. Students will study the historic use and performance of adhesives, analyze pathologies and learn repair methodologies.

OFFERED AS NEEDED

BLD 239

MATERIALS ANALYSIS

(12.00 Lecture Hrs. Total)

1-4 Credits

Students gain knowledge and practical hands-on experience in analysis of historic construction materials. Students will work on an advanced project involving research, testing and analysis of selected materials.

OFFERED AS NEEDED

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "Ø" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

BLD 294

HISTORIC PRESERVATION PRACTICUM

(24.00 Lecture/Lab Hrs. Total)

1-4 Credits

Students plan, complete and document a project in Historic Preservation. They use knowledge and skills gained in other courses, and critical thinking and problem-solving skills to work on a project in their area of interest. Students develop professional work habits and communication skills.

SPRING

BLD 295

HISTORIC PRESERVATION & RESTORATION DIRECTED PROJECT

(2.00 Lecture, 4.00 Lecture/Lab Hrs./Wk.)

4 Credits

This is the capstone course for the Historic Preservation and Restoration program. Students build on knowledge gained in other courses and use critical thinking and problem solving skills to address a significant problem in their area of interest. Students complete a comprehensive project and make a professional presentation.

Prerequisite: Completion of all but the last quarter of program coursework.

SPRING

BOT BOTANY

BOT 101 BOTANY

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Students will investigate life processes within plants and their relationship to plant form and anatomy. Students will also explore plant/people relations, ecology, genetics, diversity and evolutionary relationships among plants.

Prerequisite: WR 121Z or better.

SPRING

CH CHEMISTRY

CH 104

INTRODUCTORY CHEMISTRY I

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Students learn basic chemical and physical principles by exploring introductory chemistry topics such as of elements, compounds, chemical reactions, solutions, acids, and bases in this general education course. Students investigate how chemistry is relevant to societal issues or technological advancements. Note: This course is designed for students with no prior chemistry course work and emphasizes applications to nursing and related areas. The two-quarter series is good preparation for CH 221Z General Chemistry. **Prerequisite:** MTH 070.

OFFERED AS NEEDED

CH 105

INTRODUCTORY CHEMISTRY II

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Building upon knowledge mastered in Chemistry 104, students investigate the chemical concepts of atomic theory, nomenclature, bonding, gases, liquids, solids, and radioactivity. Students will apply the methods of science through experiments and learn to

communicate scientific and quantitative information. This is the second term of a two-quarter introductory general chemistry series.

Prerequisite: CH 104.

OFFERED AS NEEDED

CH 221Z

GENERAL CHEMISTRY I

(4.00 Lecture Hrs./Wk.)

4 Credits

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 221Z is a lecture course; CH 227Z is the laboratory component.

Prerequisite: MTH-095 or two years of high school algebra. Any 100 level CH course or high school chemistry.

FALL

CH 222Z

GENERAL CHEMISTRY II

(4.00 Lecture Hrs./Wk.)

4 Credits

Explores and applies principles presented in CH 222Z 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 222Z is a lecture course; CH 228Z is the laboratory component.

Prerequisite: CH 221Z.

WINTER

CH 223Z

GENERAL CHEMISTRY III

(4.00 Lecture Hrs./Wk.)

4 Credits

Builds upon the principles presented in CH 222Z, explores thermodynamics and chemical equilibrium, and applies them to the study of aqueous acid-base reactions, solubility, and electrochemistry. CH 223Z is a lecture course; CH 229Z is the laboratory component.

Prerequisite: CH 222Z.

SPRING

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "C" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

CH 227Z

GENERAL CHEMISTRY I LABORATORY

(3.00 Lab Hrs./Wk.)

1 Credit

Experiments correspond to the topics covered in CH 221Z including the fundamentals of chemical measurements, quantitative relationships in chemical analysis, and understanding atomic and molecular structure. CH 227Z is the laboratory component; CH 221Z is the lecture course.

Co-requisite: CH 221Z.

FALL

CH 228Z

GENERAL CHEMISTRY II LABORATORY

(3.00 Lab Hrs./Wk.)

1 Credit

Experiments correspond to the topics covered in CH 222Z including the fundamentals of intermolecular interactions, stoichiometric relationships, chemical equilibria and their application to the synthesis, identification, and analysis of chemical compounds. CH 228Z is the laboratory component; CH 222Z is the lecture course.

Co-requisite: CH 222Z.

WINTER

CH 229Z

GENERAL CHEMISTRY III LABORATORY

(3.00 Lab Hrs./Wk.)

1 Credit

Experiments correspond to the topics covered in CH 223Z including the principles of chemical equilibria and their application to chemical analysis using volumetric and electrochemical methods. CH 229Z is the laboratory component; CH 223Z is the lecture course.

Co-requisite: CH 223Z.

SPRING

CJ

CRIMINAL JUSTICE

CJ 107

CRIMINAL JUSTICE WORKSHOP

(3.00 Lecture Hrs./Wk.)

3 Credits

Students look critically at various controversial ideas, issues and recent events pertaining to the criminal justice system. Students will also examine issues rooted in gender, race, ethnicity, sexual preference and other protected classes.

WINTER; OFFERED EVEN YEARS

CJ 110

INTRODUCTION TO LAW ENFORCEMENT

(3.00 Lecture Hrs./Wk.)

3 Credits

Students study law enforcement in the United States, including: its historical development; police practices, policies and procedures; the roles and responsibilities of the American law enforcement officer; issues pertaining to recruitment, training and retention of officers; physical, emotional and psychological demands of the profession on its employees; ethics; and the influence of diverse populations on police personnel practices and on policies and procedures governing day to day police operations.

WINTER; OFFERED ODD YEARS

CJ 111

INTRODUCTION TO CRIMINAL JUSTICE

(3.00 Lecture Hrs./Wk.)

3 Credits

Students develop a fundamental understanding of the criminal justice system, the problem of crime, the theories of crime causation, society's response to criminals, and the key legal principles that form the foundation of the criminal justice system.

FALL; OFFERED EVEN YEARS

CJ 114

GENDER, RACE, CLASS AND CRIME

(3.00 Lecture Hrs./Wk.)

3 Credits

Students study the impact of cultural diversity on the American criminal justice system, including the historical treatment of minorities; cross-cultural communication between criminal justice personnel and diverse populations; criminal patterns and trends; and cultural diversification of the criminal justice personnel, including recruitment and hiring of minority populations.

OFFERED AS NEEDED

CJ 120

INTRODUCTION TO THE JUDICIAL PROCESS

(3.00 Lecture Hrs./Wk.)

3 Credits

Students study the American judicial system, including the processing of cases from arrest or filing to appeal stages; the similarities and differences between the federal and various state systems; the duties, functions and interaction of the system's personnel; issues related to taking the case from investigation to conviction; and the impact and influence of diverse populations on the policies, procedures and operations of American courts.

SPRING; OFFERED ODD YEARS

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "Ø" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

CJ 121 CONCEPTS OF CRIMINAL LAW (3.00 Lecture Hrs./Wk.) 3 Credits Students study substantive criminal law for criminal justice professionals, including the basic elements of a crime; the legal definitions of various crimes; criminal liability and culpability; and, recognized legal defenses to a crime. SPRING; OFFERED ODD YEARS	CJ 210 CRIMINAL INVESTIGATION (3.00 Lecture Hrs./Wk.) 3 Credits Students study the history, theory and principles of criminal investigation, including strategies and procedures; the use of forensic techniques in evidence collection, preservation and analysis; crime lab operations, techniques, capabilities and limitations. Prerequisite: CJ 111. WINTER
CJ 130 INTRODUCTION TO CORRECTIONS (3.00 Lecture Hrs./Wk.) 3 Credits Students study the American correctional system, including its historical development; correctional ideologies; state and federal custodial and community-based programs; the impact of confinement; inmate rights; and, the impact of the correctional profession on correctional personnel. FALL; OFFERED EVEN YEARS	CJ 212 REPORT WRITING IN CRIMINAL JUSTICE (3.00 Lecture Hrs./Wk.) 3 Credits Students develop skills essential to being able to write factual reports based on observation and/or hearsay in a clear, concise, accurate and grammatically correct manner. Prerequisite: WR 121Z. FALL; OFFERED ODD YEARS
CJ 203 CRISIS INTERVENTION (3.00 Lecture Hrs./Wk.) 3 Credits Students identify crisis intervention techniques for criminal justice personnel focusing on an understanding of the immediate needs of a person in crisis and on crisis intervention techniques in various situations, including domestic violence, suicide, sexual assault; and on the impact of intervention on the criminal justice intervener. FALL	CJ 215 ISSUES IN CRIMINAL JUSTICE SUPERVISION AND ADMINISTRATION (3.00 Lecture Hrs./Wk.) 3 Credits Students demonstrate knowledge of the history, structure, and current issues in criminal justice that deal with supervision and management. OFFERED AS NEEDED
CJ 205 FEMALE OFFENDERS (3.00 Lecture Hrs./Wk.) 3 Credits Students develop an understanding of the nature and extent of female criminal activity, the major criminal theories pertaining to causation issues, the special issues faced by the criminal justice system in dealing with female offenders, and current trends in the intervention, treatment, rehabilitation and punishment of female offenders. OFFERED AS NEEDED	CJ 218 INTERVIEW AND INTERROGATION TECHNIQUES (3.00 Lecture Hrs./Wk.) 3 Credits Students gain an understanding of the differences between interviewing and interrogation and their applicability in criminal justice settings; will learn basic techniques used when gathering information from victims, witnesses, suspects or other interested parties; and will be familiar with the role deception plays in the information gathering process. SPRING
	CJ 219 INTRODUCTION TO COMMUNITY POLICING (3.00 Lecture Hrs./Wk.) 3 Credits Students explore how the police and citizens can work together to solve community problems. Topics include the history, current programs and future trends in community policing. OFFERED AS NEEDED

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "C" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

CJ 225 CORRECTIONS LAW

(3.00 Lecture Hrs./Wk.)

3 Credits

Students study how law affects the corrections environment through an examination of the legal rights and responsibilities of inmates, officers and prison administration and how law impacts the operations of correctional facilities.

OFFERED AS NEEDED

CJ 230 INTRO TO JUVENILE CORRECTIONS

(3.00 Lecture Hrs./Wk.)

3 Credits

Students study the juvenile correctional system in the United States, including the philosophy behind the juvenile court and various custodial and community-based correctional and treatment programs.

OFFERED AS NEEDED

CJ 232 INTRODUCTION TO CORRECTIONS CASEWORK

(3.00 Lecture Hrs./Wk.)

3 Credits

Students study criminal justice counseling and interviewing techniques, including the role of the counselor; the counseling process; criminal personalities and behaviors; various treatment modalities; and ethical and legal issues that criminal justice counselors face.

OFFERED AS NEEDED

CJ 243 ALCOHOL AND OTHER DANGEROUS DRUGS

(3.00 Lecture Hrs./Wk.)

3 Credits

Students study drug and alcohol use and abuse, including a historical look at drug and alcohol use and abuse; the attempts to regulate and control the substances; symptoms of use and abuse; the prejudicial and discriminatory intent and underpinnings of drug regulation in America; and the impact of alcohol and dangerous drugs on the American criminal justice system.

FALL; OFFERED ODD YEARS

COM COMMUNICATIONS

◇ COM 111Z

PUBLIC SPEAKING

(4.00 Lecture Hrs./Wk.)

4 Credits

COM 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.

FALL, WINTER, SPRING

◇ COM 112 PERSUASIVE SPEECH

(4.00 Lecture Hrs./Wk.)

4 Credits

Students study and apply persuasion for a variety of purposes including ethos assessment, irony, stumping and the jeremiad. Students become aware of prevalence of persuasion.

SPRING

◇ COM 115

INTRODUCTION TO INTERCULTURAL COMMUNICATIONS

(4.00 Lecture Hrs./Wk.)

4 Credits

Students explore stereotypes, general attitudes, values, lifestyles, cultural and gender patterns of communication in an effort to understand different cultures and gender, how individuals react to change and differences, and how language shapes our perspective.

FALL, WINTER, SPRING

◇ COM 218Z

INTERPERSONAL COMMUNICATION

(4.00 Lecture Hrs./Wk.)

4 Credits

COM 218Z increases the knowledge and use of competent communication skills to better understand oneself, others, and the role of communication in interpersonal relationships.

FALL

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "C" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

◇ COM 219

SMALL GROUP DISCUSSION

(4.00 Lecture Hrs./Wk.) **4 Credits**

Students demonstrate knowledge and skill in the social and task functions of small groups. Social functions include leadership, participation, verbal and non-verbal communication and small group interaction. Task functions include problem solving, conflict management, agenda setting and group presentations.

FALL, WINTER, SPRING

CS

COMPUTER SCIENCE

CS 131

INTRODUCTION TO COMPUTER INFORMATION SYSTEMS

(4.00 Lecture Hrs./Wk.) **4 Credits**

Students learn and apply computer concepts and the use of information technology in business including the applications, hardware, software, databases, system development, and hardware and software that businesses use for communication and collaboration. Students will learn the value of ethical conduct in a business/computer environment and the impact of technology on industry and society.

FALL, SPRING

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

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a “C” grade or higher.

COURSE DESCRIPTIONS

CWE

COOPERATIVE WORK EXPERIENCE

The Cooperative Work Experience program allows students to earn college credit for working in the community in an area related to the student's academic goals.

CWE 180

COOPERATIVE WORK EXPERIENCE

(CAREER DEVELOPMENT)

1-11 Credits

Students work in the community in a position that allows them to gain pertinent skills and exposure relevant to their academic goals. Prior to the beginning of the work experience, students create individual learning objectives in cooperation with an identified Worksite Supervisor. Student learning objectives are reviewed and approved by the student's Academic Advisor. The learning objectives guide student learning during the term. Student progress is monitored by Cooperative Work Experience staff. Students participate in regular monitoring meetings. Students submit required paperwork and are evaluated by their Worksite Supervisor. Students demonstrate skill mastery as the work experience progresses.

Prerequisite: Students must be enrolled in either the AGS degree program or in courses leading to a 4-year degree.

Co-requisites: Concurrent enrollment in or completion of a Cooperative Work Experience seminar.

CWE 280

COOPERATIVE WORK EXPERIENCE

1-11 Credits

Cooperative Work Experience (CWE) is an academic program that strengthens student learning by engaging students in supervised on-the-job educational work experience, paid or unpaid, while students are accomplishing specific on-the-job learning outcomes, allowing students to earn college credit for working in the community in a career area related to the student's academic goals. Learning takes place in the public or private sector through student employment, internships and/or volunteer work. Students work in positions which allow them to demonstrate the skills they have gained during their academic training. Prior to beginning the work experience, students create individual learning outcomes in cooperation with an identified Worksite Supervisor. Student learning outcomes are reviewed and approved by the student's Faculty Advisor and/or Program Supervisor. Student learning outcomes are consistent with program outcomes and guide student learning during the term. Students assume greater responsibility on the job as the work experience progresses. There are no class meetings required, other than an initial orientation meeting. Student learning is monitored by Cooperative Work Experience staff. Students submit required paperwork and are evaluated by their Worksite Supervisor.

Prerequisite: None, however, students must have adequate academic training to be successful in an entry-level position. Registration requires the signature of a Cooperative Work Experience staff member.

Co-requisite: Concurrent enrollment in or completion of a Cooperative Work Experience seminar.

CWE 281

COOPERATIVE WORK EXPERIENCE SEMINAR

(1.00 Lecture Hrs./Wk.)

1 Credits

This online, self-directed learning seminar will take students through The Skills to Succeed Academy, an online employability training program. Students will experience interactive online training modules to prepare them for the entire journey of choosing the right career, finding a job, and succeeding in the workplace. The training is interactive and focuses on teaching students how to do things for themselves, to build skills and confidence, and empower students to take ownership of their career path development and job search. Innovative simulations provide a safe environment where students can practice for real life situations, such as a job interview, instantly seeing the consequences of their decisions.

Co-requisite: Placement in an appropriate cooperative work experience job.

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A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

DCO DEVELOPMENTAL COMMUNICATIONS

DCO 10

ABE-READING/Writing

Through individualized course work and group activities, students develop the reading and writing skills necessary in college preparation courses and the workforce.

DESL DEVELOPMENTAL ENGLISH

DESL 01

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES

Students improve their skills in speaking, reading, and writing English necessary for success in daily life and the workforce.

DESL 03

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES-INTENSIVE

Students improve their skills in speaking, reading, and writing English necessary for success in daily life and the workforce.

DESL 07

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES-ADVANCED

Through advanced studies, students will develop their skills in speaking, reading and writing English in preparation for college courses or vocational training.

DGED DEVELOPMENTAL GED PREPARATION

DGED 48

PRE-GED PREPARATION

Students improve their skills in reading writing and math in preparation for taking the GED® test.

Prerequisite: DMTH 07 and/or DCO 10 or see advisor for placement score approval.

OFFERED AS NEEDED

DGED 49

GED PREPARATION

Students improve their knowledge of social studies, writing, literature, science, and mathematics.

Prerequisite: DGED48 see advisor for placement score approval.

SUMMER, FALL, WINTER, SPRING

DMTH DEVELOPMENTAL MATH

DMTH 07

ABE MATHEMATICS

Students develop skills in whole number mathematics, including adding, subtracting, multiplying, dividing, rounding, estimating and problem solving.

SUMMER, FALL, WINTER, SPRING

DRF DRAFTING

DRF 139

TECHNICAL PRINT INTERPRETATION

(3.00 Lecture Hrs./Wk.)

3 Credits

Students learn and apply the principles of reading and interpreting technical prints. They learn the purpose of different types of drawings in a variety of disciplines, the types of projections, and the use of conventions, scale, symbols, notes and dimensions in planning, construction and assembly.

FALL

DRF 150

CONSTRUCTION DRAWING

(3.00 Lecture Hrs./Wk.)

3 Credits

Introduction to tools and techniques of sketching and drafting for architecture. Students develop skills to communicate designs for construction and renovation projects including scaling, projection types, plans, elevations, sections, pictorial drawings and drawing conventions. Traditional and computer aided drafting techniques are introduced.

WINTER

DRF 213

COMPUTER AIDED DESIGN I

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Introduction to computer aided design/drafting (CAD) as an integrated system to represent and communicate designs. Students gain and apply fundamental knowledge of CAD concepts and techniques. They use CAD systems to create, modify and display drawings and create design documents. Students work individually and collaboratively to analyze and solve design problems.

FALL

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "C" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

DRF 214

COMPUTER AIDED DESIGN II

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Students gain and apply knowledge of advanced CAD concepts and techniques. They use CAD systems to develop multi-view, sectional, detail and isometric drawings and demonstrate the use of drawing conventions including dimensioning, hatching, symbols and layouts. Students work individually and collaboratively to analyze and solve design problems.

Prerequisite: DRF 213.

WINTER

DRF 215

COMPUTER AIDED DESIGN III

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Students gain and apply knowledge of three-dimensional CAD concepts and techniques. They use CAD systems to create, manipulate and view surface and solid models, renderings and presentation documents. Students work individually and collaboratively to analyze and solve design problems.

Prerequisite: DRF 214.

SPRING

DRF 294

COMPUTER AIDED DESIGN PRACTICUM

(24.00 Lecture/Lab Hrs. Total)

1-4 Credits

Students plan, complete and document a project in Computer Aided Design and Drafting. They use knowledge and skills gained in other courses, and critical thinking and problem-solving skills to work on a project in their area of interest. Students develop professional work habits and communication skills.

SPRING

DRF 295

CADD DIRECTED PROJECT

(2.00 Lecture, 6.00 Lab Hrs./Wk.)

4 Credits

This is the capstone course for the Computer Aided Design and Drafting program. Students build on knowledge gained in other courses and use critical thinking and problem-solving skills to address a significant problem in their area of specialization. Students complete a comprehensive project and make a professional presentation.

Prerequisite: Completion of all but the last quarter of program coursework.

SPRING

EC

ECONOMICS

EC 201Z

PRINCIPLES OF MICROECONOMICS

(4.00 Lecture Hrs./Wk.)

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.

OFFERED AS NEEDED

EC 202Z

PRINCIPLES OF MACROECONOMICS

(4.00 Lecture Hrs./Wk.)

4 Credits

Examines the aggregate activity of a market economy, economic growth, inflation, unemployment, and the use of fiscal and monetary policy to address macroeconomic problems.

OFFERED AS NEEDED

ED

EDUCATION

ED 216

FOUNDATIONS OF EDUCATION

(3.00 Lecture Hrs./Wk.)

3 Credits

This course focuses on the historical foundations of education from an equity perspective as well as education policy and practice, legal rights and responsibilities of teachers and students, professional development of teachers, student pluralism, current issues in education, the history of institutional/systemic racism in the education system and barriers and achievements to educational access. The course helps participants evaluate the impact of discrimination on marginalized communities and empowers a personal commitment to becoming a professional educator and reflective practitioner who will be able to make informed decisions to enhance equity in an educational environment for children and youth.

OFFERED AS NEEDED

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "Ø" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

ED 258

MULTICULTURAL EDUCATION

(3.00 Lecture Hrs./Wk.)

3 Credits

This course will support aspiring educators to gain a deeper understanding of identity, culture, power and social justice as it is related to teachers' self-awareness and teaching in the classroom. Future educators will study and explore how culture and power impact their role as educators and how it informs pedagogical approaches to teaching, learning and creating curriculum. Students will achieve an understanding of multicultural education and its impact on teaching in the classroom.

OFFERED AS NEEDED

EGR ENGINEERING

EGR 101

ENGINEERING ORIENTATION

(3.00 Lecture Hrs./Wk.)

3 Credits

Students demonstrate familiarity with the engineering disciplines, curricula at four-year colleges, professional ethics, and licensing requirements for professional engineers. Students gain experience in data collection and engineering problem analysis using tools such as an engineer's scale and spreadsheets. Students participate in a team-engineering project.

Prerequisite: MTH 111Z.

OFFERED AS NEEDED

EMT EMERGENCY MEDICAL TECHNICIAN

EMT 140

MEDICAL TERMINOLOGY

(3.00 Lecture Hrs./Wk.)

3 Credits

Students apply knowledge and skills to master medical terminology dealing with specific body systems.

FALL & SPRING

EMT 151

EMERGENCY MEDICAL TECHNICIAN, PART 1

(54.00 Lecture, 30.00 Lecture/Lab Hrs.; 84 Hrs. Total)

6 Credits

This two-part course meets Oregon State Health Division and Fed. Dept. of Transportation requirements for EMT and prepares the student to provide basic pre-hospital emergency medical care and transportation of the sick and injured. On successful completion of EMT 152, the student will be prepared to take the National Registry of Emergency Medical Technicians certification examination for EMT.

Prerequisites: Health Care Provider CPR Certification, current measles and Hepatitis B immunizations, negative TB test, drug screen, background check, and valid driver's license.

FALL

EMT 152

EMERGENCY MEDICAL TECHNICIAN, PART 2

(54.00 Lecture, 22.00 Lecture/Lab Hrs.; 76 Hrs. Total)

6 Credits

Continuation of EMT 151. Students demonstrate the knowledge and skills required to provide basic pre-hospital emergency medical care and transportation of the sick and injured. On successful completion of this course, the student will be prepared to pass the Oregon State Health Division certification examination for EMT.

Prerequisite: EMT 151.

WINTER

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "Ø" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

EMT 176

EMERGENCY RESPONSE: PATIENT TRANSPORTATION

(1.00 Lecture. 2.00 Lab Hrs./Wk.)

2 Credits

Students study ambulance operations, laws, maintenance, safety procedures, emergency driving, and route planning. Student will become familiar with hands-on vehicle inspections and emergency vehicle operations.

OFFERED AS NEEDED

EMT 177

EMERGENCY RESPONSE: COMMUNICATION AND DOCUMENTATION

(2.00 Lecture Hrs./Wk.)

2 Credits

Students study principles of therapeutic communication, via verbal, written, and electronic modes in the provision of EMS; documentation of the elements of patient assessment, care, and transport; communication systems; radio types; reports; codes; and correct techniques.

OFFERED AS NEEDED

ENG ENGLISH LITERATURE

ENG 104Z

INTRODUCTION TO FICTION

(4.00 Lecture Hrs./Wk.)

4 Credits

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.

OFFERED AS NEEDED

ENG 105Z

INTRODUCTION TO DRAMA

(4.00 Lecture Hrs./Wk.)

4 Credits

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.

OFFERED AS NEEDED

ENG 106Z

INTRODUCTION TO POETRY

(4.00 Lecture Hrs./Wk.)

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.

OFFERED AS NEEDED

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "Ø" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

ENG 110

INTRODUCTION TO FILM STUDIES

(4.00 Lecture Hrs./Wk.)

4 Credits

Students will view, discuss, and analyze a sampling of US and international films both historic and contemporary, learning to identify film types and genres, examine narrative and cinematic techniques, and recognize films as cultural texts which reflect and influence a range of values and ethics. Far from being exhaustive, this entry point into the world of film studies will enhance students' visual literacy while developing techniques of oral and written response fundamental to undergraduate coursework in any discipline. In-class screenings of select films along with a comprehensive introductory textbook will allow students to develop a discipline specific vocabulary to critically analyze visual texts in the world around them. A formal researched essay will require students to locate, integrate, and cite secondary sources to support an original thesis. Students will also practice critical evaluation of film through class discussion and oral presentations.

FALL

◇ ENG 201

INTRODUCTION TO SHAKESPEARE

(4.00 Lecture Hrs./Wk.)

4 Credits

Students study a variety of plays and poetry, with particular emphasis on understanding Shakespeare's language, genres, and cultural contexts.

OFFERED AS NEEDED

◇ ENG 204

ENGLISH LITERATURE – MEDIEVAL

(4.00 Lecture Hrs./Wk.)

4 Credits

Students study a variety of works by Medieval English authors including fairy tales, poetry, legends, and longer works such as Beowulf and Canterbury Tales. We will study the cultural, literary, political, religious, and social contexts for each work, as well as the early history of the English language.

FALL

◇ ENG 205

ENGLISH LITERATURE – RENAISSANCE

(4.00 Lecture Hrs./Wk.)

4 Credits

Students study a variety of works by Renaissance English authors including Shakespearean (Macbeth) and non-Shakespearean (Faust) drama, lyric poetry, epic poetry, and an early novel. We will study the cultural, literary, political, religious, and social contexts for each work, as well as how the printing press revolutionized literature.

WINTER

◇ ENG 206

ENGLISH LITERATURE – VICTORIAN & MODERN

(4.00 Lecture Hrs./Wk.)

4 Credits

Students study a variety of texts by Victorian and Modern British authors including novels, poems, and short stories. We will study the rise of the female author in England and will examine works by post-colonial authors. We will also discuss how changes in the British Empire altered the voice of British literature.

SPRING

◇ ENG 220

MULTI-CULTURAL AMERICAN LITERATURE

(4.00 Lecture Hrs./Wk.)

4 Credits

Students read, discuss, and analyze the literature of one or more multicultural American groups, thereby examining the historical bases and evolutions of diverse cultural ideas. Assigned texts will explore social constructs in terms of power relationships, and guided discussion will help students recognize how culturally based assumptions influence perceptions and behaviors described in literature. Students will review the terms and approaches of literary criticism, producing at least one formal essay that integrates research from appropriate academic sources with original analysis of a primary text.

OFFERED AS NEEDED

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "◇" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

◇ ENG 221

INTRODUCTION TO CHILDREN'S LITERATURE

(4.00 Lecture Hrs./Wk.)

4 Credits

Students examine a variety of texts from the children's literary tradition, including folk tales, fairy tales, classic stories, nursery rhymes, poems, picture books, and longer works. Emphasis will be on reading and discussing the works, as well as analyzing style, content, and themes.

SUMMER

◇ ENG 253

SURVEY OF AMERICAN LITERATURE: PRE-CIVIL WAR

(4.00 Lecture Hrs./Wk.)

4 Credits

Students read and study a variety of classic literary texts written in America between 1600 and 1870. Students read a variety of genres including poetry, short stories, slave narratives, and the early novel. Students learn how literature is both a product of the history and culture that produced it as well as a commentary on it. Special emphasis on understanding how religion, politics, gender, race, and class have shaped the early years of American Literature.

FALL

◇ ENG 254

SURVEY OF AMERICAN LITERATURE: POST-CIVIL WAR

(4.00 Lecture Hrs./Wk.)

4 Credits

Students read and study a variety of classic literary texts written in America between 1870 and 2000. Students read a variety of genres including poetry, short stories, novels-in-stories, and novels. Students learn how literature is both a product of the history and culture that produced it as well as a commentary on it. Special emphasis on understanding how gender, race, class, immigration, and war have shaped the later years of American Literature.

OFFERED AS NEEDED

◇ ENG 263

AUTISM IN LITERATURE

(4.00 Lecture Hrs./Wk.)

4 Credits

Students read a variety of genres, including non-fiction fiction poetry, biography, and autobiography, in which either the author or a central character is known to be autistic. Emphasis will be on discussing the works, analyzing meanings, researching related topics, making connections between literature and life, understanding autistic culture, and learning about how autism has influenced the literary tradition. Autism in Literature is an introductory level literature course.

WINTER

◇ ENG 265

GOTHIC LITERATURE

(4.00 Lecture Hrs./Wk.)

4 Credits

Students study a sampling of literature written in the Gothic tradition, including British and American literature from 1800 to the present. Emphasis will be on reading the works, discussing them, and analyzing style, content, and theme (both in discussion and through writing). We will examine how the themes of Gothic literature have been "resurrected" in popular culture today (film, fashion, music) and will explore the ways that genre literature such as Gothic can perpetuate or alter social myths about gender, race, class, and other forms of power.

FALL

◇ ENG 271

WORLD LITERATURE: ANCIENT WORLD

(4.00 Lecture Hrs./Wk.)

4 Credits

Students study a variety of texts by authors from the ancient world (Sumerian, Jewish, Greek, Roman, Christian, and Muslim) including poetry, drama, and religious texts. We will study the cultural, literary, political, religious, and social contexts for each work, and will examine the shift from oral to written storytelling traditions.

FALL

◇ ENG 272

WORLD LITERATURE: MEDIEVAL-RENAISSANCE

(4.00 Lecture Hrs./Wk.)

4 Credits

Students study a variety of texts by authors from the Medieval and Renaissance eras (Italian, French, English, Spanish) including poetry, drama, and prose. We will study the cultural, literary, political, religious, and social contexts for each work, and will examine the shift from manuscripts to printed texts.

OFFERED AS NEEDED

◇ ENG 273

WORLD LITERATURE: AFRICA, ASIA, SOUTH AMERICA

(4.00 Lecture Hrs./Wk.)

4 Credits

Students read a sampling of the literature written in the developing world, including texts from Africa, Asia, and South America. We will read folk tales, poetry, short stories, and novels. We will examine primary texts from each region, but will also look at how colonialism has imparted a cross-pollination of cultures.

OFFERED AS NEEDED

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "◇" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

FRP FIRE PROTECTION

FRP 101

PRINCIPLES OF EMERGENCY SERVICES

(4.00 Lecture Hrs./Wk.)

4 Credits

This course provides an overview of fire protection and emergency services; career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics; life safety initiatives.

Prerequisite: Instructor approval.

FALL; OFFERED EVEN YEARS

FRP 110

FIREFIGHTER SKILLS I

(2.00 Lecture/Lab Hrs./Wk.)

1 Credit

Students develop the knowledge and skills needed to meet the minimum requirements of competence required of a person to serve as a paid or volunteer firefighter. Students will become familiar with the various types of equipment and procedures needed to function safely as a member of a firefighting team under direct supervision. This course is the first of a six course sequence.

FALL, WINTER

FRP 111

FIREFIGHTER SKILLS II

(2.00 Lecture/Lab Hrs./Wk.)

1 Credit

Students develop the knowledge and skills needed to meet the minimum requirements of competence required of a person to serve as a paid or volunteer firefighter. Students will become familiar with the various types of equipment and procedures needed to function safely as a member of a firefighting team under direct supervision. This course is a continuation of the Firefighter Skill series.

Prerequisite: FRP 110.

FALL, WINTER

FRP 112

FIREFIGHTER SKILLS III

(2.00 Lecture/Lab Hrs./Wk.)

1 Credit

Students develop the knowledge and skills needed to meet the minimum requirements of competence required of a person to serve as a paid or volunteer firefighter. Students will become familiar with the various types of equipment and procedures needed to function safely as a member of a firefighting team under direct supervision. This course is a continuation of the Firefighter Skill series.

Prerequisite: FRP 111.

FALL, WINTER

FRP 113

FIREFIGHTER SKILLS IV

(2.00 Lecture/Lab Hrs./Wk.)

1 Credit

Students develop the knowledge and skills needed to meet the minimum requirements of competence required of a person to serve as a paid or volunteer firefighter. Students will become familiar with the various types of equipment and procedures needed to function safely as a member of a firefighting team under direct supervision. This course is a continuation of the Firefighter Skill series.

Prerequisite: FRP 112.

FALL, WINTER

FRP 114

FIREFIGHTER SKILLS V

(2.00 Lecture/Lab Hrs./Wk.)

1 Credit

Students develop the knowledge and skills needed to meet the minimum requirements of competence required of a person to serve as a paid or volunteer firefighter. Students will become familiar with the various types of equipment and procedures needed to function safely as a member of a firefighting team under direct supervision. This course is a continuation of the Firefighter Skill series.

Prerequisite: FRP 113.

FALL, WINTER

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "C" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

FRP 115

FIREFIGHTER SKILLS VI

(2.00 Lecture/Lab Hrs./Wk.)

1 Credit

Students develop the knowledge and skills needed to meet the minimum requirements of competence required of a person to serve as a paid or volunteer firefighter. Students will become familiar with the various types of equipment and procedures needed to function safely as a member of a firefighting team under direct supervision. This course is a continuation of the Firefighter Skill series.

Prerequisite: FRP 114.

FALL, WINTER

FRP 121

FIRE BEHAVIOR AND COMBUSTION

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Students explore the theories and fundamentals of how and why fires start, spread and how they are controlled.

FALL; OFFERED ODD YEARS

FRP 155

INSTRUCTIONAL METHODOLOGY

(2.00 Lecture Hrs./Wk.)

2 Credits

Students develop proficiency in the methodologies and skills needed to conduct fire science instruction using prepared course outlines and materials.

OFFERED AS NEEDED

FRP 156

FIREFIGHTER LAW

(1.00 Lecture Hrs./Wk.)

2 Credit

Students learn the Federal, State, and local laws that regulate emergency services, national standards influencing emergency services, standard of care, tort, liability, and a review of relevant court cases.

FALL; OFFERED ODD YEARS

FRP 157

PRINCIPLES OF FIRE AND EMERGENCY SERVICES SAFETY AND SURVIVAL

(33.00 Lecture Hrs. Total)

3 Credits

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.

FALL; OFFERED ODD YEARS

FRP 158

FIRE PROTECTION HYDRAULICS AND WATER SUPPLY

(22.00 Lecture, 22.00 Lecture/Lab Hrs.; 44 Hrs. Total)

3 Credits

Students develop the knowledge and skills required to operate various fire pumps and accessories. They will demonstrate competency in drafting, hydrant and tanker operations, and rule of thumb fire ground hydraulic calculations.

WINTER; OFFERED EVEN YEARS

FRP 164

HAZARDOUS MATERIALS OPERATIONAL RESPONDER

(2.00 Lecture Hrs./Wk., 20.00 Lecture/Lab Hrs.; 40 Hrs. Total)

3 Credits

Students will gain the knowledge and skills needed to respond to, and manage, a hazardous material incident at the initial operations level of training. Students who complete this course will meet the core competencies for Operations Level Responders and Section 6.6, Mission Specific Competencies: Product Control, set forth in NFPA 472 -- 2008 edition: Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Operations Level Responder.

SPRING; OFFERED EVEN YEARS

FRP 166

BUILDING CONSTRUCTION FOR FIRE PROTECTION

(3.00 Lecture Hrs./Wk.)

3 Credits

Students learn the components of building construction that relate to fire and life safety. The focus of this course is on firefighter safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies.

Prerequisite: FRP 101.

SPRING; OFFERED ODD YEARS

FRP 168

EMERGENCY SERVICE RESCUE

(22.00 Lecture, 30.00 Lab Hrs.; 52 Hrs. Total)

3 Credits

Students demonstrate the knowledge and skills needed to rescue and extricate patients while maintaining personal safety; control and management of the accident scene; and considering needs of the accident trauma patient and the use and maintenance of rescue tools and equipment.

SPRING; OFFERED ODD YEARS

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "C" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

FRP 169

PRINCIPLES OF FIRE AND EMERGENCY SERVICE ADMINISTRATION

(3.00 Lecture Hrs./Wk.) 3 Credits

This course introduces the student to the organization and management of a fire department and the relationship of government agencies to the fire service. Emphasis on fire service leadership from the perspective of the company officer.

WINTER; OFFERED ODD YEARS

FRP 170

FIREFIGHTING STRATEGY AND TACTICS

(3.00 Lecture Hrs./Wk.) 3 Credits

Students analyze the principles of fire control through the use of personnel, equipment, and extinguishing agents on the fire ground.

SPRING; OFFERED ODD YEARS

FRP 171

FIRE PROTECTION SYSTEMS

(33.00 Lecture Hrs. Total) 3 Credits

Students learn the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers.

WINTER; OFFERED ODD YEARS

FRP 172

FIRE CODES AND ORDINANCES

(33.00 Lecture Hrs. Total) 3 Credits

Students study the Uniform Fire Code, State Fire Marshal Fire Safety Regulations and related Oregon revised statutes, National Fire Prevention Association, and other codes relating to fire prevention and life safety.

FALL; OFFERED ODD YEARS

FRP 174

FIRE INVESTIGATION I

(3.00 Lecture Hrs./Wk.) 3 Credits

This course is intended to provide the student with the fundamentals and technical knowledge needed for proper fire scene interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the firesetter, and types of fire causes.

Prerequisite: Instructor approval.

OFFERED AS NEEDED

FRP 181

FIRE PREVENTION

(3.00 Lecture Hrs./Wk.) 3 Credits

Students will develop fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with built-in fire protection systems, fire investigation, and fire and life-safety education.

SPRING; OFFERED ODD YEARS

FRP 190

INTRODUCTION TO WILDLAND FIREFIGHTING

(42.00 Lecture, 8.00 Lab Hrs.; 50 Hrs. Total) 4 Credits

Students will develop the skills needed to be safe and effective firefighters in wildland fire situations. These skills will include situational awareness, basic communication responsibilities, teamwork principles, attitude and stress barriers, the decision-making process, wildland safety, wildland firefighter preparedness, tools and equipment, firing devices, the use of water, suppression techniques, use of maps, securing the control line, scouting, standards for survival, hazmat, wildland tactics, fireline reference materials, documenting activities, fireline communications, environmental effects on the start and spread of wildland fires, and how to recognize potentially hazardous situations in wildland situations. Students who successfully complete this course will have met the standards for the National Wildfire Coordinating Groups classes of L-180, S-130, S-131, and S-190.

OFFERED AS NEEDED

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "Ø" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

FYS FIRST YEAR SEMINAR

FYS 101

FIRST YEAR SEMINAR: ACADEMIC AND CAREER

(3.00 Lecture Hrs./Wk.)

3 Credits

This course will give students time to acclimate to their new role as a student beyond the one-day college orientation experience. Students will learn: study and life skills such as time management and self-efficacy, how to navigate college processes and resources, and practice working on learning management systems within a safe, scaffolded framework. Guest speakers, lecture, and hands-on skill sessions will allow students to practice what it takes to be a successful college student as part of the course framework. By the end of the course, students will have: knowledge of the psychology behind successful students and employees, enhanced ability to write and communicate with college staff and students, strong study skills, goal-planning practices for their futures, a draft of a resume/CV and cover letter to use in job searches, and additional skills that will help them be successful beyond the classroom.

FALL

GS GENERAL SCIENCE

GS 104

PHYSICAL SCIENCE - PHYSICS

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Students gain a solid understanding of the scientific endeavor to make intelligent and informed decisions. This course uses guided inquiry and student projects to study motion, force, charge, magnets, and lightning. For non-science majors and pre-service teachers.

Prerequisite: MTH 070.

FALL, WINTER

GS 105

PHYSICAL SCIENCE – CHEMISTRY

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Students understand and apply the principles that govern the behavior of matter due to molecular cause, as an introductory foundation for study in the sciences and engineering. Students will learn and demonstrate both qualitative and quantitative understanding of stoichiometry, periodicity, atomic and molecular structure, formulas and equations, chemical bonding, and chemical reactions. This course is intended to be an introduction to the science of chemistry and the impact chemistry has on the world around us.

Prerequisite: MTH 070.

OFFERED AS NEEDED

GS 106

PHYSICAL SCIENCE - GEOLOGY

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Students gain a solid understanding of the scientific endeavor to make intelligent and informed decisions. This course uses guided inquiry and student projects to study topics on; volcanoes, tsunamis, minerals and energy resources. For non-science majors and pre-service teachers.

Prerequisite: MTH 070.

SUMMER, FALL

GS 108

PHYSICAL SCIENCE - OCEANOGRAPHY

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Students will use guided inquiry and projects to study topics on; physical oceanography, marine geology, marine biology and marine chemistry. This course is not intended for oceanography majors but can be used as an elective for science majors.

Prerequisite: MTH 060 and WR 121Z.

OFFERED AS NEEDED

GS 109

PHYSICAL SCIENCE - METEOROLOGY

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Students gain a solid understanding of the scientific endeavor to make intelligent and informed decisions. This course uses guided inquiry and student projects to study topics on heat, cloud formation, climate and the greenhouse effect. For non-science majors and pre-service teachers.

Prerequisite: MTH 070.

WINTER; OFFERED AS NEEDED

GS 112

CHEMISTRY & CELL BIOLOGY

(4.00 Lecture, 3.00 Lab Hrs./Wk.)

5 Credits

Students learn basic concepts of matter, atoms and radioactivity, compounds, organic compounds, intermolecular forces, solutions, acids and bases, enzymes, carbohydrates, lipids, proteins, cell chemistry, cell anatomy and physiology, and cell reproduction. Students apply science processes to health-related problems. Although this course emphasizes allied health applications, it transfers as a general education (AAOT) lab science. GS 112 serves as a prerequisite to BI 231 (Anatomy and Physiology) and BI 234 (Microbiology). Dental Hygiene and Dental Assistant students should take the CH 104-106 series.

Prerequisite: MTH 070 or higher.

SUMMER, WINTER, SPRING

GS 120

PHYSICAL SCIENCE – ATMOSPHERIC PHENOMENA

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Students gain a solid understanding of the scientific endeavor to make intelligent and informed decisions. This course uses guided inquiry and student projects to study topics on; light, rainbows, crystals, and snowflakes. For non-science majors and pre-service teachers.

Prerequisite: MTH 070 or higher.

WINTER

GS 161

FIELD BIOLOGY OF OREGON

(20.00 Lecture, 20.00 Lecture/Lab Hrs. Total)

3 Credits

Students will conduct field-oriented surveys of several Oregon ecosystems. Students will study coastal dunes, several forest systems, coastal riparian zones, wetlands, estuaries, and the rocky intertidal.

OFFERED AS NEEDED

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A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

HD HUMAN DEVELOPMENT

HD 145

COPING SKILLS FOR STRESS AND DEPRESSION

(2.00 Lecture, 2.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students will study basic theory, overview and practice of managing stress and depression. Topics include recognizing, managing, and modifying causes of stress, altering individual perception of stressful events, and modifying the stress response. The symptoms, causes, and forms of depression will be described, including an overview of methods used in treating depression. The topic of stress will be covered in more detail than depression. This course provides a supportive classroom environment and an educational approach to managing stress and depression.

OFFERED AS NEEDED

HD 160

OVERCOMING BARRIERS: A HOLISTIC APPROACH TO STUDENT SUCCESS

(2.00 Lecture, 2.00 Lecture/Lab Hrs./Wk.)

3 Credits

This course is part of the two-class, six-credit Lives in Transition Program. In this class, students engage in fundamental ideas and practices to overcome barriers to success. Throughout the class, students identify personal and educational goals as well as barriers that have, or may, disrupt successful completion of their goals. Students critically analyze values and ethics associated with personal and social barriers. Activities, classroom discussion, and assignments augment the learning process. The class fosters individual expression using analysis, synthesis, and critical evaluation about techniques to overcome barriers and establish skills for success within the college environment.

FALL, WINTER, SPRING

HD 202

LIFE TRANSITIONS

(2.00 Lecture, 2.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students focus on self-exploration and development of life-planning skills. By analyzing predictable life transitions, students develop and learn how to integrate skills in goal setting, decision making, and plan implementation for personal growth and career planning. Introduces non-traditional careers and careers in the professional and technical trades.

FALL, WINTER, SPRING

HPE HEALTH & PHYSICAL EDUCATION

HPE 295

HEALTH AND FITNESS FOR LIFE

(2.00 Lecture, 2.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students develop an understanding of the relationship between optimal health, wellness, and physical fitness by gaining knowledge of the interacting roles of physical fitness nutritional status, and the ability to cope with stress.

Prerequisite: MTH 060 recommended.

Co-requisite: FIT 085064 required.

FALL, WINTER, SPRING

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A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

HS HUMAN SERVICES

HS 101

ALCOHOL USE, ABUSE AND ADDICTION

(3.00 Lecture Hrs./Wk.)

3 Credits

Students learn concepts and perspectives about alcohol abuse and dependence based on a bio-psycho-social approach to alcohol problems. Pharmacology of the drug, models of addiction progression, personal impact on the user and family, and treatment approaches are stressed.

OFFERED AS NEEDED

HS 102

DRUG USE, ABUSE AND ADDICTION

(3.00 Lecture Hrs./Wk.)

3 Credits

Students gain knowledge about mind and mood altering aspects of drugs. Pharmacological, biological, social and psychological factors that affect body, brain and behavior are addressed, along with various models of the progression of addiction and treatment.

Prerequisite: HS 101 highly recommended.

SUMMER, FALL, SPRING

HST HISTORY

◇ HST 101

HISTORY OF WESTERN CIVILIZATION

(3.00 Lecture Hrs./Wk.)

3 Credits

Against the background of Eurasia, students gain knowledge of the origins and development of civilization from ancient times to the beginnings of Medieval Europe.

FALL

◇ HST 102

HISTORY OF WESTERN CIVILIZATION

(3.00 Lecture Hrs./Wk.)

3 Credits

Students develop an understanding of the cultural, social, economic, and political development of Western civilization from 500 A.D. to 1750 A.D. against the background of Eurasia and the world.

WINTER

◇ HST 103

HISTORY OF WESTERN CIVILIZATION

(3.00 Lecture Hrs./Wk.)

3 Credits

Students develop an understanding of the cultural, social, economic, and political development of Western civilization from 1750 to the present against the background of Eurasia and the world.

OFFERED AS NEEDED

◇ HST 104

WORLD HISTORY I: ANCIENT AND EARLY MIDDLE AGES

(4.00 Lecture Hrs./Wk.)

4 Credits

Students survey the historical development of world civilizations from antiquity to 1000 C.E. Students explore religious, cultural, social, political, and economic institutions of various societies. Students develop a diverse historical analysis of both ancient Western and non-Western civilizations.

SUMMER

◇ HST 105

WORLD HISTORY II: LATE MIDDLE AND EARLY MODERN AGES

(4.00 Lecture Hrs./Wk.)

4 Credits

Students survey the historical development of several world civilizations from 1000 to 1750 C.E. Students also explore religious, cultural, social, political, and economic institutions of various societies. Students develop a diverse historical analysis of the late middle and early modern ages of both Western and non-Western civilizations.

OFFERED AS NEEDED

◇ HST 106

WORLD HISTORY III: THE MODERN AND CONTEMPORARY WORLD

(4.00 Lecture Hrs./Wk.)

4 Credits

Students survey the historical development of several world civilizations from 1750 to the contemporary period. Students also explore religious, cultural, social, political, and economic institutions of various societies. Students develop a diverse historical analysis of modern periods of both Western and non-Western civilizations.

OFFERED AS NEEDED

◇ HST 201

HISTORY OF THE UNITED STATES

(3.00 Lecture Hrs./Wk.)

3 Credits

Students develop an understanding of the political, economic, intellectual, and cultural history of the United States from prehistory to 1820.

FALL

◇ HST 202

HISTORY OF THE UNITED STATES

(3.00 Lecture Hrs./Wk.)

3 Credits

Students survey the political, social, and cultural history of the United States between 1820 and 1898. Emphasis will be placed on the debate and crisis of slavery and abolitionism, expansionism,

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A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

the Civil War, Reconstruction, the rise of industry and the resort to empire in 1898.

WINTER

◇ HST 203

HISTORY OF THE UNITED STATES

(3.00 Lecture Hrs./Wk.)

3 Credits

Students survey the political, economic, intellectual, and foreign relations history of the United States during the twentieth century.

SPRING

HST 218

NATIVE AMERICAN HISTORY

(3.00 Lecture Hrs./Wk.)

3 Credits

Native American History will explore the history of Native Americans as they come into contact with European-Americans. The course will cover the response to the contact, and the differences between the cultures and the struggles against reservation, assimilation, and termination. The course will also address current Native American issues.

SUMMER, SPRING

HST 245

LEWIS & CLARK COURSE OF DISCOVERY

(3.00 Lecture Hrs./Wk.)

3 Credits

Students will begin by following the vision of Thomas Jefferson acquiring the Louisiana Territory. As the expedition proceeds on, Lewis and Clark make preparation by putting together their tools and team. Students follow the expedition across unmapped territory experiencing challenges with weather, geography, natives, and each other. In conclusion, students review the accomplishments and impacts of the Lewis and Clark expedition.

FALL

HST 277

HISTORY OF THE OREGON TRAIL

(3.00 Lecture Hrs./Wk.)

3 Credits

This course will cover the explosion of emigration which spread from the United States to the West Coast in the 1800's. More importantly, the course will look at the motivations of those who emigrated, the various trails, life along the trail, and the impact of emigration.

OFFERED AS NEEDED

HUM HUMANITIES

◇ HUM 101

INTRODUCTION TO HUMANITIES I

(4.00 Lecture Hrs./Wk.)

4 Credits

Students will gain an understanding of the ideas and modes of vision that Western culture has inherited from the classical, medieval, and Renaissance periods. Readings and discussions focus on literature, philosophy, history, art, music, and religion.

SUMMER, FALL, WINTER

◇ HUM 102

INTRODUCTION TO HUMANITIES II

(4.00 Lecture Hrs./Wk.)

4 Credits

Students will use a topical and interdisciplinary approach to an understanding of Western culture. Students will examine the art, literature, drama, history, and music regarding some aspect of human behavior such as war, crime, evil, marriage, disease, etc.

OFFERED AS NEEDED

◇ HUM 103

INTRODUCTION TO HUMANITIES III

(4.00 Lecture Hrs./Wk.)

4 Credits

Students will learn about literature, history, language, geography, music and art of a particular human culture.

SPRING

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "◇" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

IT

INDUSTRIAL & MANUFACTURING TECH.

Other Automotive classes listed under Automotive Technology (AUTO).

IT 110

APPLIED TECHNOLOGY PROJECTS

(20.00 Lecture/Lab Hrs./Cr.)

1-3 Credits

Students advance the laboratory skills and apply theories they have learned from other professional technical classes.

SPRING

IT 140

INDUSTRIAL SAFETY

(20.00 Lecture/Lab Hrs. Total)

1 Credits

Students use a competency-based program to develop and maintain safe work habits while engaged in various industrial job settings following OSHA guidelines. An overview is provided for the safe use of tools/equipment commonly found in the fabrication/construction industry. Students must demonstrate competency before entering the shop.

FALL, WINTER, SPRING

LA

LANGUAGE ARTS

LA 090

FOUNDATIONAL LANGUAGE SKILLS

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students learn to use language skills to read effectively, think clearly, and write properly in preparation for college-level study. Students incorporate skill building in reading comprehension, vocabulary development, grammatical accuracy, and composition. This is the beginning language arts course See advisor for placement score approval.

FALL, WINTER, SPRING

LIB

LIBRARY

LIB 127

LIBRARY RESEARCH SKILLS

(1.00 Lecture Hrs./Wk.)

1 Credits

In this introduction to finding and utilizing information, students will build skills in searching the library catalog, journal databases, and Internet resources. Students will learn how to construct an effective search strategy, evaluate sources of information, and use and cite information correctly.

FALL, WINTER, SPRING

MA

MEDICAL ASSISTANT

MA 112

MEDICAL ASSISTANT: CLINICAL PROCEDURES I

(2.00 Lecture, 3.00 Lab Hrs./Wk.)

3 Credits

Students demonstrate knowledge and skills necessary to provide basic care to clients and work in medical office or clinic settings. Please register for MA 120 and MA 127 before registering for this course.

Prerequisite: Admission to MA Program.

Co-requisite: MA 127.

FALL

MA 113

MEDICAL ASSISTANT: CLINICAL PROCEDURES II

(2.00 Lecture, 6.00 Lab Hrs./Wk.)

4 Credits

Students demonstrate increasing knowledge and skills necessary to provide care to clients and work in medical office or clinic settings, including: preparing clients for examinations and procedures; performing diagnostic tests; recognizing and responding appropriately to emergencies; client teaching; and office management.

Prerequisite: MA 112, MA 120, & MA 127.

Co-requisite: MA 133.

WINTER

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "C" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

MA 115

PHARMACOLOGY FOR MEDICAL ASSISTANTS

(3.00 Lecture Hrs./Wk.)

3 Credits

Students acquire and demonstrate knowledge of basic principles and practice of pharmacology and administering drugs. They identify roles and responsibilities of the medical assistant in safely administering selected medications by various routes. In addition, students will study medications related to each of the following classifications: vitamins, minerals and herbs, skin, nervous system, urinary system, gastrointestinal system, anti-infective, analgesics, sedatives and hypnotics, psychotropic meds, musculoskeletal, anticonvulsants, reproductive system, cardiovascular, and respiratory.

Prerequisite: MA 113, MA 121, & MA 133, AND one of the following: MTH 063, MTH 095 or any 100 level or higher math course that includes intermediate algebra. The student must have taken the math course within the past 5 years.

Co-requisite: MA 231.

SPRING

MA 120

BODY STRUCTURE AND FUNCTION I

(4.00 Lecture Hrs./Wk.)

4 Credits

Students learn terminology in its proper context, including structure and function of the human body in health and disease. Students will learn basic word structure to guide them in the study of medical language. In addition, a review of each body system will be conducted to include medical words, their components and basic structure and function.

Prerequisite: Instructor approval.

FALL

MA 121

BODY STRUCTURE AND FUNCTION II

(4.00 Lecture Hrs./Wk.)

4 Credits

Students learn terminology in its proper context, including structure and function of the human body in health and disease. An examination of the following systems to include word forms, prefixes, suffixes, basic structure in health and disease will be completed: nervous system, cardiovascular system, respiratory system, blood system, lymphatic system, musculoskeletal system, sensory system, and endocrine system.

Prerequisite: MA 120.

WINTER

MA 127

OFFICE SKILLS / MEDICAL OFFICE

(5.00 Lecture Hrs./Wk.)

5 Credits

Students will become experienced in the areas of entry-level office procedures such as telephone techniques including etiquette, patient scheduling, office organization, office communication, the use of office machinery such as faxes and multi-line phones while providing for patient privacy and confidentiality. In addition, an introduction to computer systems, patient medical records, software and billing, coding and insurance procedures will be explored.

Prerequisite: Admission to MA Program.

Co-requisite: MA 112.

FALL

MA 133

MEDICAL ASSISTANT CLINICAL PRACTICUM I

(12.00 Lab Hrs./Wk.)

4 Credits

Students apply knowledge and skills in a medical office setting to provide direct care for patients and to support office functions.

Prerequisite: MA 112, MA 120, and MA 127.

Co-requisite: MA 113.

WINTER

MA 231

MEDICAL ASSISTANT CLINICAL PRACTICUM II

(15.00 Lab Hrs./Wk.)

5 Credits

Students apply increasing knowledge and skills in a medical office setting. Students demonstrate increasing independence in providing direct care for patients and supporting office functions.

Prerequisite: MA 113, MA 121, & MA 133.

Co-requisite: MA 115.

SPRING

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "C" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

MAS MARITIME SCIENCE

HM 120

HAZWOPER TRAINING

(12.00 Lecture, 12.00 Lab Hrs.; 24 Hrs. Total)

1 Credit

Students learn and practice terminology, toxicology, hazard evaluation, chemical identification systems, personal protective equipment and hazardous waste site operations. Meets Federal requirement for HAZWOPER training as outlined in the Code of Federal Regulations, Part 29.

SUMMER, FALL

MAS 100

MARITIME OCCUPATIONS

(40.00 Lecture/Lab Hrs. Total)

2 Credits

Students learn to work safely on the water while demonstrating and applying fundamental skills of good seamanship aboard the college's training vessel, Forerunner. Students also learn about the maritime environment and how to apply for a Merchant Mariner's Credential (MMC). This course is appropriate for students who are interested in exploring any maritime occupation on the water, including towing, commercial fishing, passenger vessels, research vessels, and more. This class is also appropriate as an elective for non-maritime students or prospective maritime students. This class is held aboard the training vessel FORERUNNER.

FALL, WINTER, SPRING

MAS 101

EXPLORING MARINE TECHNOLOGY

(20.00 Lecture/Lab Hrs. Total)

1 Credit

Students learn to operate scientific data collection equipment while collecting real scientific data that will be used in an ongoing study of the Lower Columbia River.

Prerequisite: Instructor approval.

SPRING

MAS 120

U.S. COAST GUARD MARINE LICENSE TRAINING

(20.00 Lecture, 20.00 Lecture/Lab Hrs.; 40 Hrs. Total)

3 Credits

This course is for professional mariners who wish to review examination subjects prior to testing at the US Coast Guard Marine Safety Office for an upgrade increase in scope of an existing credential. Students purchase time in forty-hour blocks to meet training objectives determined through sample exams and evaluations. This course may be purchased up to three (3) times depending on the extent of the training needs of the student. Testing is completed at a USCG Regional Exam Center. It is highly recommended that students have their USCG approval for the credential prior to training. Additional classes may be required to satisfy the STCW requirements. A total of ten (10) credits of any MAS credentialing course may be applied toward the AGS degree or Associate degree.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

MAS 121

ABLE SEAFARER TRAINING

(80.00 Lecture/Lab Hrs. Total)

4 Credits

Students learn and practice the skills required to pass the US Coast Guard (USCG) Merchant Marine exam for Able Bodied Seafarer. Upon successful completion of this training, the student will receive a certificate of completion that satisfies the USCG testing requirements for Able Bodied Seafarer any rating. It is highly recommended that students have their Merchant Mariner's application approved by the USCG before enrolling in this course.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

MAS 122

OUPV TRAINING

(80.00 Lecture/Lab Hrs. Total)

4 Credits

Students learn and practice the skills required to pass the US Coast Guard (USCG) Merchant Mariner Exam for Operator of Uninspected Passenger Vessel (OUPV). Upon successful completion of this training course, the student will receive a certificate of completion that satisfies the USCG testing requirements for OUPV. To ensure that the student meets the USCG licensing requirements it is strongly recommended that students have received their USCG approval for OUPV prior to enrolling in the class.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "C" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

MAS 123

100 TON MASTER TRAINING

(100.00 Lecture/Lab Hrs. Total) 5 Credits

Students learn and practice the skills required to pass the US Coast Guard (USCG) Merchant Mariner exam for Master of Inspected Vessels of not more than 100-gross ton (100-ton Master). Upon successful completion of this training course, the student will receive a certificate of completion that satisfies the USCG testing requirements for licenses within the scope of the course. To ensure that the student meets the USCG licensing requirements it is strongly recommended that students have received their USCG approval prior to enrolling in the class.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

MAS 124

200 TON MASTER TRAINING

(120.00 Lecture/Lab Hrs. Total) 6 Credits

Students learn and practice the skills required to pass the US Coast Guard (USCG) Merchant Mariner Exam for Master of Inspected Vessel not to exceed 200-gross ton. Upon successful completion of this training course, the student will receive a certificate of completion that satisfies the USCG testing requirements for licenses within the scope of the course. To ensure that the student meets the USCG licensing requirements it is strongly recommended that students have received their USCG approval prior to enrolling in the class.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

MAS 125

500/1600/UNLIMITED LICENSE PREP

(40.00 Lecture/Lab Hrs. Total) 2 Credits

This course is for professional mariners who wish to review examination subjects prior to testing at the US Coast Guard Marine Safety Office for an upgrade increase in scope of an existing license. Students purchase time in forty-hour blocks to meet training objects determined through sample exams and evaluations. This course may be purchased up to four times depending on the extent of the training needs of the student. Testing is completed at a USCG Marine Safety Office It is highly recommended that students have their USCG approval for the license prior to training. Additional classes may be required to satisfy the STCW requirements. Course may be taken up to four (4) times for a total of eight (8) credits.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

MAS 126

OCEAN'S ENDORSEMENT PROGRAM

(80.00 Lecture/Lab Hrs. Total) 4 Credits

Students learn and practice the skills required to pass the US Coast Guard (USCG) Merchant Mariner Exam for an Ocean's Endorsement. Upon successful completion of this course the student will receive a certificate of completion that is accepted, in lieu of testing, at the USCG Marine Safety Office for an ocean endorsement on a license up to and including 1600 ton master of inspected vessels.

OFFERED AS NEEDED

MAS 128

APPRENTICE MATE OF TOWING VESSELS

(120.00 Lecture/Lab Hrs. Total) 6 Credits

This U.S. Coast Guard approved Apprentice Mate of Towing Vessels course meets or exceeds the requirements to attain certification under the standards set forth by the U.S. Coast Guard. Students demonstrate skills and knowledge needed to operate effectively as an Apprentice Mate of Towing Vessels.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

MAS 130

RADAR OBSERVER: ORIGINAL ENDORSEMENT, UNLIMITED

(10.00 Lecture, 30.00 Lab Hrs.; 40 Hrs. Total) 2 Credits

Students acquire knowledge, understanding proficiency in radar operations, collision avoidance, second navigation by radar through lecture, demonstration, and transfer plotting, using radar simulators. Students engage in the simulator use of Automatic Radar Plotting Aids (ARPA). The U.S. Coast Guard approved course meets or exceeds the minimum level of knowledge specified in the US Coast Guard, STCW and IMO requirements for ARPA.

FALL, WINTER, SPRING

MAS 131

RADAR OBSERVER: RECERTIFICATION

(24.00 Lecture/Lab Hrs. Total) 1 Credit

Students renew proficiency in plotting problems for collision avoidance, navigation, second radar operation and operation of radar. Note: For individuals who would like to refresh their skills before taking the radar endorsement final exam.

Prerequisite: MAS 130, Radar Observer Certification.

OFFERED AS NEEDED

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "Ø" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

MAS 132

RADAR OBSERVER: RIVERS

(24.00 Lecture/Lab Hrs. Total) 1 Credit

Students gain knowledge, understanding second proficiency required to safely navigate a vessel, with the aid of radar, upon rivers covered by the Inland Navigation Rules of the Road.

FALL, WINTER, SPRING

MAS 133

ARPA TRAINING (AUTOMATIC RADAR PLOTTING AIDS)

(32.00 Lecture/Lab Hrs. Total) 1 Credit

Students demonstrate the knowledge of the principles and application of ARPA (Automatic Radar Plotting Aids). The U.S. Coast Guard approved course meets or exceeds the minimum level of knowledge specified in the US Coast Guard, STCW and IMO requirements for ARPA.

Prerequisite: MAS 130.

FALL, WINTER, SPRING

MAS 134

STCW GMDSS TRAINING

(GLOBAL MARITIME DISTRESS AND SAFETY SYSTEM)

(70.00 Lecture/Lab Hrs. Total) 3 Credits

Students demonstrate knowledge and skill in the proper use of GMDSS communications systems and other GMDSS equipment such as Emergency Position Indicating Radio Beacons (EPIRB's), and Search and Rescue Transponder (SART). This U.S. Coast Guard approved course meets or exceeds the minimum level of knowledge specified in the US Coast Guard, STCW and IMO requirements for training in Global Marine Distress Safety System (GMDSS).

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

MAS 135

STCW BASIC TRAINING

(20.00 Lecture, 20.00 Lecture/Lab Hrs.; 40 Hrs. Total) 3 Credits

Students demonstrate knowledge and practical application of the skills required by the U.S. coast Guard for all persons employed on offshore vessels. Skill areas include safe work habits, proper use of safety and survival equipment, basic firefighting and first aid.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

MAS 136

STCW BRIDGE RESOURCE MANAGEMENT

(12.00 Lecture, 20.00 Lecture/Lab Hrs.; 32 Hrs. Total) 2 Credits

This USCG approved, STCW Bridge Resource Management course meets or exceeds the requirements to attain certification under the standards set forth by the U.S. Coast Guard and STCW 2010 IMO regulations. Students demonstrate skills and knowledge needed to operate effectively in a working shipboard environment.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

MAS 137

RADAR NAVIGATION

(10.00 Lecture, 22.00 Lecture/Lab Hrs.; 32 Hrs. Total) 2 Credits

Students demonstrate an understanding of radar theory and operation. Students will use radar/ARPA simulators for navigation and collision avoidance exercises. Students will demonstrate knowledge of previously learned navigation and plotting skills.

FALL, WINTER, SPRING

MAS 138

STCW PROFICIENCY IN SURVIVAL CRAFT

(10.00 Lecture, 22.00 Lecture/Lab Hrs.; 32 Hrs. Total) 2 Credits

Course satisfies the requirements of 46 CFR 12.10-5 and section A-VI/2 and table A-VI/2-1 of the STCW-95 code provided the student has completed the personal survival techniques and elementary first aid modules of Basic Safety Training (BT). Students must bring proof of completion of these BT modules to be issued a "Proficiency in Survival Craft" (Lifeboat Operator) certificate. Students will be required to handle the launch of a lifeboat and perform all tasks required of a lifeboat crew.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

MAS 139

STCW BASIC FIREFIGHTING

(16.00 Lecture/Lab Hrs. Total) 1 Credit

A trainee successfully completing this course will be able to minimize the risk of fire, maintain a state of readiness to respond to emergency situations involving fire and fight & extinguish shipboard fires.

FALL, WINTER, SPRING

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "Ø" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

MAS 144

STCW ADVANCED FIREFIGHTING

(36.00 Lecture/Lab Hrs. Total) 2 Credits

Students demonstrate knowledge and practical application of the basic fire fighting skills required by the U.S. Coast Guard for all persons employed on offshore vessels. Skill areas include theory of fire, prevention techniques and response/suppression.

Prerequisite: MAS 139.

FALL, WINTER, SPRING

MAS 146

VESSEL OPERATIONS

(10.00 Lecture, 30.00 Lab Hrs.; 40 Hrs. Total) 2 Credits

Students gain practical experience by participating in the operation of the college's fifty-foot training vessel. Activities include preparing for the trip; securing the vessel after the trip; and operations while underway. Many activities are conducted at sea, weather permitting.

Prerequisite: Instructor approval.

WINTER, SPRING

MAS 147

VESSEL REGULATIONS

(60.00 Lecture/Lab Hrs. Total) 3 Credits

Students learn to use the Code of Federal Regulations for Marine Transportation (46 CFR) for owner/operator drills and inspection and the preparation of a vessel for US Coast Guard inspection.

OFFERED AS NEEDED

MAS 148

VESSEL STABILITY

(60.00 Lecture/Lab Hrs. Total) 3 Credits

Students demonstrate and apply the principles of stability, including free surface effect, center of gravity, effects of loading, and the rolling period.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

MAS 150

CREWMEMBER MARINE SAFETY TRAINING

(10.00 Lecture, 30.00 Lab Hrs.; 40 Hrs. Total) 2 Credits

Students demonstrate mastery of the skills and techniques needed for prevention and treatment of cold water near drowning and hypothermia; cold-water survival skills; sea survival; firefighting and emergency drills; orientation; and emergency instructions.

FALL, WINTER, SPRING

MAS 151

STCW BASIC TRAINING REFRESHER

(24.00 Lecture/Lab Hrs. Total) 1 Credit

This course meets the USCG and STCW Basic Training renewal requirements for individuals lacking the required 360 days of sea service for credential renewal.

OFFERED AS NEEDED

MAS 155

INTRODUCTION TO WATCHKEEPING

(10.00 Lecture, 30.00 Lab Hrs.; 40 Hrs. Total) 2 Credits

Students learn, demonstrate, and apply watchkeeping skills appropriate to an Able-Bodied Seafarer (AB). These include compass use, rules of the road, aids to navigation, radio use, chart use, and other skills appropriate to an unlicensed watchstander. This class is held aboard the training vessel Forerunner.

Co-requisite: MAS 175 or instructor approval.

FALL, WINTER, SPRING

MAS 164

INTRODUCTION TO NAVIGATION

(60.00 Lecture/Lab Hrs. Total) 3 Credits

Students demonstrate the knowledge and skills required to conduct a vessel safely from one position to another including position, direction, and distance on the water. Celestial navigation is not included in this course.

FALL, WINTER, SPRING

MAS 165

PRACTICAL NAVIGATION

(10.00 Lecture, 30.00 Lab Hrs.; 40 Hrs. Total) 2 Credits

Students demonstrate mastery of navigation skills used on Mercator charts, including dead reckoning, fixing a position, and maintaining nautical charts. Students demonstrate proper use of major navigation publications.

Co-requisite: MAS 164 recommended.

FALL, WINTER, SPRING

MAS 167

CELESTIAL NAVIGATION

(80.00 Lecture/Lab Hrs. Total) 4 Credits

Students demonstrate knowledge and skill in the practical application of plotting lines of position using the sun, moon, planets and stars by sight reduction tables. Students solve the types of celestial navigation problems incorporated in USCG examinations.

FALL, WINTER, SPRING

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "Ø" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

MAS 168

CHARTS, AIDS TO NAVIGATION, AND MARINE COMPASSES

(60.00 Lecture/Lab Hrs. Total) 3 Credits

Students demonstrate in-depth knowledge of the Lateral and International Association of Lighthouse Authorities aids to navigation systems; the charts used in marine navigation; the magnetic compass, its deviation and compensation; and the basics of gyrocompasses.

FALL, WINTER, SPRING

MAS 170

MARINE WEATHER, TIDES, CURRENTS AND WAVES

(60.00 Lecture/Lab Hrs. Total) 3 Credits

Students demonstrate in-depth knowledge of the effects of tides and currents, use of tables for calculating tides and currents, weather patterns found in the Pacific Northwest, and the use and interpretation of various weather instruments found on-board vessels.

FALL, WINTER, SPRING

MAS 171

COASTAL NAVIGATION AND VOYAGE PLANNING

(60.00 Lecture/Lab Hrs. Total) 3 Credits

Introduction to principles of coastal navigation including tides and currents, set and drift, coastal radar navigation, dead reckoning, estimated positions, and bathymetric navigation. Students will be introduced to proper and effective voyage planning oriented to the Pacific coast and Pacific Northwest including selection of appropriate charts, research of publications, pre-plotting intended course, planning for set and drift, waypoint selection, ETAs, weather, and hazards that may be encountered.

Prerequisite: MAS 164 or instructor approval.

FALL, WINTER, SPRING

MAS 172

OCEAN NAVIGATION AND VOYAGE PLANNING

(80.00 Lecture/Lab Hrs. Total) 4 Credits

Students will be introduced to the tools and techniques of ocean navigation including great circle routes, electronic position fixing use of sextant in ocean navigating, latitude by Polaris, latitude by meridian passage, ETAs, universal time, Nautical Almanac, and other publications used for ocean passages. Students will become familiar with ocean passage planning and enroute activities.

Prerequisite: MAS 171 or instructor approval.

FALL

MAS 175

RULES OF THE ROAD

(60.00 Lecture/Lab Hrs. Total) 3 Credits

Students gain an in-depth knowledge of the Navigation Rules through studying the history of the Navigation rules, reading case studies of collisions, and analyzing the application of the Navigation Rules.

Prerequisite: Instructor approval.

Corequisite: MAS 155 recommended.

FALL, WINTER, SPRING

MAS 180

MARINE ELECTRONICS

(40.00 Lecture/Lab Hrs. Total) 2 Credits

Students learn to operate standard marine electronics aboard the school's training vessel, FORERUNNER. Course material includes the use of radar, sonar, radio, GPS, loud hailer, and electronic chart. This class is held aboard the training vessel Forerunner.

Prerequisite: MAS 165 or instructor approval.

FALL, WINTER, SPRING

MAS 181 SEAMANSHIP I

(40.00 Lecture/Lab Hrs. Total) 2 Credits

Students learn and apply skills in marlinspike seamanship, including knots and splices, care and handling of fiber rope, and safe deck seamanship. Students continue to build on the foundation of safe seamanship that they began in MAS 100 while participating in all vessel operations. This class is held aboard the training vessel FORERUNNER.

FALL, WINTER, SPRING

MAS 182 SEAMANSHIP II

(40.00 Lecture/Lab Hrs. Total) 2 Credits

Students learn and apply skills in using block and tackle, wire rope, and marlinspike seamanship while expanding their knowledge and skill in marlinspike seamanship, including new knots and splices. This class is held aboard the training vessel FORERUNNER.

Prerequisite: MAS 181 or instructor approval.

FALL, WINTER, SPRING

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "Ø" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

MAS 183 SEAMANSHIP III

(40.00 Lecture/Lab Hrs. Total) 2 Credits

Students learn basic principles of safe operation of deck machinery and how to operate an anchor windlass. Students learn basic principles of anchoring and how to stand an anchor watch. Students continue to develop and refine their marlinspike seamanship skills. Mastery of all knots on the USCG Able Seafarer Exam is required. This class is held aboard the training vessel FORERUNNER.

Prerequisite: MAS 182 or instructor approval.

FALL, WINTER, SPRING

MAS 184

GALLEY COOKING

(40.00 Lecture/Lab Hrs. Total) 2 Credits

Students learn to safely prepare simple, healthy, hearty meals while underway, including budgeting, provisioning, meal planning, timing, service, and cleanup. This class is held aboard the training vessel FORERUNNER.

Prerequisite: MAS 100 or instructor approval.

FALL, WINTER, SPRING

MAS 185

BRIDGE TO BRIDGE COMMUNICATION

(60.00 Lecture/Lab Hrs. Total) 3 Credits

Students will learn basic radio law and operation practices of marine radios, general information about Global Marine Distress Safety System (GMDSS) as required under Standards for Training and Certification for Watchkeeping (STCW) and International Maritime Organization (IMO) guidelines. Students will be prepared to take a Federal Communications Commission (FCC) exam on Elements 1 and 7.

FALL, WINTER, SPRING

MAS 186

SMALL VESSEL OPERATIONS I

(40.00 Lecture/Lab Hrs. Total) 2 Credits

Students are introduced to the duties and responsibilities of running a vessel both as a single operator and as part of a bridge team. They demonstrate vessel-handling skills under a variety of conditions while emphasizing safe seamanship. This class is held aboard the training vessel FORERUNNER.

Prerequisite: MAS 165 or instructor approval.

FALL, WINTER, SPRING

MAS 187

SMALL VESSEL OPERATIONS II

(40.00 Lecture/Lab Hrs. Total) 2 Credits

Students continue to improve their skills in vessel handling and vessel management, including an introduction to stability and loading. This course builds upon skills introduced in MAS 186 and students will be required to demonstrate competence in those skills. This class is held aboard the training vessel FORERUNNER.

Prerequisite: MAS 186.

FALL, WINTER, SPRING

MAS 188

SMALL VESSEL OPERATIONS III

(40.00 Lecture/Lab Hrs. Total) 2 Credits

Students develop and demonstrate the skills required for safe operation and management of a small vessel. Students conduct drills and inspections as required by USCG Subchapter T regulations and demonstrate vessel handling skills and bridge management strategies. This course builds directly upon the skills learned in MAS 186 and MAS 187 and students will be required to demonstrate competence in those skills. This class is held aboard the training vessel FORERUNNER.

Prerequisite: MAS 187.

FALL, WINTER, SPRING

MAS 189

APPLIED RIGGING TECHNOLOGY

(40.00 Lecture/Lab Hrs. Total) 2 Credits

In this hands-on rigging class held onboard the training vessel and in the classroom, students will learn about, and be able to demonstrate techniques and knowledge in, wire and synthetic rope, rigging hardware, tackle blocks, chain, slings, crane operation, crane safety, and load lifting. This course complements the seamanship series.

Prerequisites: MAS 183, MAS 192.

FALL, WINTER, SPRING

MAS 190

VESSEL PRACTICUM

(36.00 Lecture/Lab Hrs. Total) 1 Credit

Students complete predetermined projects and/or assist with maintenance projects aboard Forerunner. Requires a consultation with the instructor to determine outcome objectives. This class is held aboard the training vessel FORERUNNER.

Note: Two credits (two classes) of MAS 190 are required to complete the Training Ship Program.

Prerequisite: MAS 100 or instructor approval.

FALL, WINTER, SPRING

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "Ø" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

MAS 191

DECKHAND PRACTICUM

(32.00 Lecture/Lab Hrs. Total) 1 Credit

Students demonstrate knowledge and skill by actively performing the duties of a deckhand aboard the college's training vessel. Duties may include anything that may be required of a deckhand aboard any commercial vessel. This course requires consultation with the instructor to determine outcome objectives. This class is held aboard the training vessel FORERUNNER.

Prerequisite: MAS 150 or instructor approval.

FALL, WINTER, SPRING

MAS 192

INTRODUCTION TO DECK MACHINERY AND SAFETY

(40.00 Lecture/Lab Hrs. Total) 2 Credits

Students demonstrate knowledge of terminology; back deck practices including the safe operation of all deck equipment onboard the training vessel; safe working practices dockside and under way; making repairs and replacing worn or damaged gear; using crane signals; and maintaining a safe working environment. This class is held aboard the training vessel FORERUNNER.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

MAS 193

INTRODUCTION TO ENGINE ROOM MAINTENANCE AND SAFETY

(40.00 Lecture/Lab Hrs. Total) 2 Credits

Students demonstrate knowledge of terminology; engine room layout and machinery identification; working with limited space and accessibility; repair and maintenance procedures; preventive maintenance; emergency repair; use and care of hand tools; checking fluid levels and grease fittings; good housekeeping; and safe working practices. This class is held aboard the training vessel FORERUNNER.

Prerequisite: MAS 100.

FALL, WINTER, SPRING

MAS 201

TANK SHIP DANGEROUS LIQUIDS

(30.00 Lecture, 10.00 Lecture/Lab Hrs.; 40 Hrs. Total) 3 Credits

This U.S. Coast Guard approved STCW Tank Ship Dangerous Liquids course meets or exceeds the requirements to attain certification under the standards set forth by the U.S. Coast Guard and STCW IMO regulations. Students demonstrate skills and knowledge needed to operate effectively as a Tankerman Person-In-Charge.

Prerequisite: Instructor approval.

FALL, WINTER

MAS 207

LEADERSHIP AND MANAGERIAL SKILLS

(40.00 Lecture/Lab Hrs. Total) 2 Credits

Students demonstrate their knowledge and skills to safely carry out the duties of an officer in charge of a navigational watch on vessels of 500 gross tons or more, as an officer in charge of engineering watch in a manned engine room or a Designated Duty Engineer (DDE) in a periodically unmanned engine room in this U.S. Coast Guard approved certification course.

FALL, WINTER, SPRING

MAS 208

RATINGS FORMING PART OF A NAVIGATIONAL WATCH (RFPNW)

(20.00 Lecture, 10.00 Lecture/Lab Hrs.; 32 Hrs. Total) 2 Credits

This U.S. Coast Guard approved 32 hour course provides students with the knowledge and skills, as well as assessments of those skills, necessary to stand lookout and helmsman watches on board vessels that operate under the International Maritime Organization standards.

FALL, WINTER, SPRING

MSE MARINE SCIENCE ENGINEERING

MSE 101

TOOL AND SHOP PRACTICES

(40.00 Lecture/Lab Hrs. Total) 2 Credits

This Coast Guard Approved 32-hour course provides students with the knowledge and skills, as well as assessments of those skills, necessary to stand lookout and helmsman watches on board vessels that operate under the International Maritime Organization standards.

OFFERED AS NEEDED

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "C" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

MSE 102

RATINGS FORMING PART OF AN ENGINE WATCH

(40.00 Lecture/Lab Hrs. Total)

2 Credits

This USCG approved 20-hour course provides students with the knowledge and skills, as well as the assessments necessary to stand engine watches on board vessels that operate under the International Maritime Organization Standards.

OFFERED AS NEEDED

MSE 103

MARINE ENGINEERING OPERATIONS

(40.00 Lecture/Lab Hrs. Total)

2 Credits

Students will learn basic operational terminology and safety practices for auxiliary machinery, hydraulic operations and system operations.

Prerequisite: MSE 101.

OFFERED AS NEEDED

MSE 111

PIPES AND VALVES

(60.00 Lecture/Lab Hrs. Total)

3 Credits

Students will learn the properties and recommended uses for various types of pipe, hose, tubing and control valving. Emphasis on the proper selection of delivery mechanisms and valving for specific situations.

Prerequisite: MSE 101.

OFFERED AS NEEDED

MSE 112 FLUID PUMPS

(60.00 Lecture/Lab Hrs. Total)

3 Credits

Students will learn the properties and recommended uses for different types of fluid delivery pumps. Operating principles & theories for centrifugal, positive displacement, jet and reciprocating pumps will be covered in this course.

Prerequisite: MSE 101.

OFFERED AS NEEDED

MSE 120

QMED CREDENTIAL

(120.00 Lecture/Lab Hrs. Total)

6 Credits

This course will satisfy USCG testing requirements for QMED Oiler.

OFFERED AS NEEDED

MSE 121

VESSEL SYSTEMS

(40.00 Lecture/Lab Hrs. Total)

2 Credits

Students will learn the properties and recommended practices for operation and maintenance of systems handling seawater, potable water, sanitation/sewage, lubricating oil, fuel and air.

Prerequisite: MSE 101.

OFFERED AS NEEDED

MSE 122

FUEL SYSTEMS

(40.00 Lecture/Lab Hrs. Total)

2 Credits

Students will learn the properties of commonly encountered fuels and the principles, operation and maintenance of fuel delivery systems in vessel operations.

Prerequisite: MSE 101.

OFFERED AS NEEDED

MSE 131

MECHANICAL LUBRICATION PRODUCTS

(40.00 Lecture/Lab Hrs. Total)

2 Credits

Students will learn the properties of commonly encountered lubrication products and their recommended uses. Materials covered will include types of greases, oil, oil additives, characteristics, and contamination.

Prerequisite: MSE 101.

OFFERED AS NEEDED

MSE 132

LUBRICATION SYSTEMS II

(40.00 Lecture/Lab Hrs. Total)

2 Credits

Students will develop an understanding of the systems and practices used to lubricate machinery. Engines, auxiliary machinery and stationary machinery will all be covered in this course.

Prerequisite: MSE 101.

OFFERED AS NEEDED

MSE 141

PRINCIPLES OF DIESEL ENGINES

(60.00 Lecture/Lab Hrs. Total)

3 Credits

Students will learn basic diesel engine principles and operating practices. Course content will include engine design, theory, operation and troubleshooting.

Prerequisite: MSE 101.

OFFERED AS NEEDED

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "C" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

MSE 151

PRINCIPLES OF DC MARINE ELECTRICAL SYSTEMS

(40.00 Lecture/Lab Hrs. Total) 2 Credits

Students will learn basic principles and operating practices for DC Marine Electrical systems. Course content will include safety practices, electrical theory, circuits, magnetism, generation, storage, distribution, diagrams, metering equipment and troubleshooting.

Prerequisite: MSE 101.

OFFERED AS NEEDED

MSE 152

PRINCIPLES OF AC MARINE ELECTRICAL SYSTEMS

(40.00 Lecture/Lab Hrs. Total) 2 Credits

Students will learn basic principles and operating practices for AC Marine Electrical systems. Course content will include safety practices, electrical theory, circuits, magnetism, generation, storage, distribution, diagrams, metering equipment and troubleshooting.

Prerequisite: MSE 101.

OFFERED AS NEEDED

MSE 161

PRINCIPLES OF MARINE HYDRAULIC SYSTEMS

(60.00 Lecture/Lab Hrs. Total) 3 Credits

Students will learn basic principles and operating practices for Marine Hydraulic systems. Course content will include safety practices, theory, system design, system components, operation and troubleshooting.

Prerequisite: MSE 101.

OFFERED AS NEEDED

MSE 162

PRINCIPLES OF MARINE REFRIGERATION SYSTEMS

(60.00 Lecture/Lab Hrs. Total) 3 Credits

Students will learn basic principles, applications and operating practices for Marine Refrigeration systems. Course content will include safety practices, theory, system design, system components, operation and troubleshooting.

Prerequisite: MSE 101.

OFFERED AS NEEDED

MSE 171

BLUEPRINT READING

(20.00 Lecture/Lab Hrs. Total) 1 Credit

Students will learn to read and make effective use of orthographic projections, welding blueprints and piping diagrams in engine room operations.

Prerequisite: MSE 101.

OFFERED AS NEEDED

MSE 172

PRINCIPLES OF STEAM

(20.00 Lecture/Lab Hrs. Total) 1 Credit

Students will learn basic theory, operating principles and practices for steam boilers & operations.

Prerequisite: MSE 101.

OFFERED AS NEEDED

MSE 173

TURBINES AND WATERMARKERS

(20.00 Lecture/Lab Hrs. Total) 1 Credit

Students will learn the different types of turbines and associated components and characteristics. Common safety and operating practices will be covered.

Prerequisite: MSE 101.

OFFERED AS NEEDED

MIC MICROCOMPUTER APPLICATIONS

MIC 145

INTRODUCTION TO INTEGRATED SOFTWARE

(6.00 Lecture/Lab Hrs./Wk.) 3 Credits

Students learn to use an integrated software package that includes word-processing, database, spreadsheet, graphics, and communications operations.

Prerequisite: Touch keyboarding skill recommended.

SUMMER, FALL, WINTER, SPRING

MTH MATHEMATICS

MTH 058

ARITHMETIC REVIEW

(10.00 Lecture Hrs. Total) 1 Credit

Students review the fundamentals of arithmetic operations on whole numbers, fractions, mixed numbers, and decimals. Students learn to convert between various number forms. They examine applications of proportion and percent.

Prerequisite: Instructor approval.

FALL

MTH 059

PRE-ALGEBRA A

(4.00 Lecture, 2.00 Lab Hrs./Wk.) 4 Credits

Students master the fundamentals of arithmetic operations on whole numbers, fractions, mixed numbers, and decimals. Students learn to convert between various number forms. They examine non-algebraic applications of proportion and percent.

Prerequisite: Instructor approval.

SUMMER, FALL, WINTER, SPRING

MTH 060

PRE-ALGEBRA

(8.00 Lecture/Lab Hrs./Wk.) 4 Credits

Students master the fundamentals of applied algebra with some geometry. They compute simple algebraic expressions, first degree

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A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

equations, dimensional analysis, ratio and proportions, and do some numerical evaluations.

Prerequisite: Placement into MTH 060.

SUMMER, FALL, WINTER, SPRING

MTH 063

MATH FOR MEDICAL ASSISTANTS

(4.00 Lecture Hrs./Wk.)

4 Credits

Students review mathematics necessary for calculations involving fractions, mixed numbers, decimals and percentages and apply these skills to solve practical problems. Students solve basic linear equations and use formulas to make calculations. Students use the techniques of unit conversion to solve applied problems in dimensional analysis. Students represent numbers, perform calculations and solve applied problems involving quantities expressed in scientific notation. Students integrate their understanding of percentages and proportions to solve applied dosage calculations.

Prerequisite: MTH 060 or placement into MTH 063.

WINTER

MTH 065

MATHEMATICS FOR THE APPLIED SCIENCES

(4.00 Lecture Hrs./Wk.)

4 Credits

Students solve problems from a variety of occupations using fractions, decimals, percents, proportions, right angle trigonometry, graphs, and statistics. This course satisfies the general education mathematics requirement for most of the Professional and Technical degrees.

Prerequisite: MTH 060 or placement into MTH 065.

WINTER, SPRING

MTH 070

ALGEBRA - BEGINNING

(8.00 Lecture/Lab Hrs./Wk.)

4 Credits

Students employ communication and problem solving skills that involve mathematical reasoning. Topics include solving linear equation in two variables, graphing linear equations, solving systems of linear equations in two variables, integer exponents, solving linear inequalities, and polynomial arithmetic.

Prerequisite: MTH 060 or placement into MTH 070.

SUMMER, FALL, WINTER, SPRING

MTH 095

ALGEBRA - INTERMEDIATE

(8.00 Lecture/Lab Hrs./Wk.)

4 Credits

Students demonstrate an understanding of polynomials, exponents, radical, first and second-degree equations and inequalities, functions and graphs, systems of equations, rational expressions and absolute value functions. For students who have had only one year of high school algebra and/or need a review of concepts typically covered in second year of high school algebra in preparation for college algebra.

Prerequisite: MTH 070 or placement into MTH 095.

SUMMER, FALL, WINTER, SPRING

MTH 098

QUANTITATIVE LITERACY

(4.00 Lecture, 2.00 Lab Hrs./Wk.)

5 Credits

Students will utilize critical reasoning to solve contextual problems using numerical and algebraic skills, descriptive statistics, geometry, functions, and modeling. Students will develop quantitative reasoning and problem solving skills through a collaborative process. For non-STEM majors.

Prerequisite: MTH 060 or placement into MTH 098.

FALL, WINTER

MTH 105Z

MATH IN SOCIETY

(4.00 Lecture Hrs./Wk.)

4 Credits

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 weighed approximately equally. This course emphasizes mathematical literacy and communication, relevant everyday applications, and the appropriate use of current technology.

Prerequisite: MTH 095, MTH 098, placement in MTH 105Z, concurrent enrollment of MTH 105Q, or instructor approval.

SUMMER, FALL, WINTER, SPRING

MTH 105Q

CO-REQUISITE: SUPPORT FOR MATH IN SOCIETY

(2.00 Lab Hrs./Wk.)

1 Credit

This support course focuses on the foundational skills and concepts needed to be persistent and successful in MTH 105Z Math in Society. Students will receive support as needed in arithmetic, algebra, problem solving, geometry, technology and study skills in an interactive setting.

Prerequisite: MTH 060; or placement in MTH 070 or MTH 098.

Co-requisite: MTH 105Z instructor approval.

SUMMER, FALL, WINTER, SPRING

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A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

MTH 111Z

PRECALCULUS I: FUNCTIONS

(4.00 Lecture Hrs./Wk.)

4 Credits

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.

Prerequisite: MTH 095, placement in MTH 111Z, concurrent enrollment of MTH 111Q, or instructor approval.

SUMMER, FALL, WINTER, SPRING

MTH 111Q

CO-REQUISITE: SUPPORT FOR PRECALCULUS I: FUNCTIONS

(2.00 Lab Hrs./Wk.)

1 Credit

This support course focuses on the foundational skills and concepts needed to be persistent and successful in MTH 111Z Pre-Calculus I: Functions. Students will receive support as needed in algebra, functions, problem solving, graphing, technology and study skills in an interactive setting.

Prerequisite: MTH 070 or placement in MTH 095.

Co-requisite: MTH 111Z.

SUMMER, FALL, WINTER, SPRING

MTH 112Z

PRECALCULUS II: TRIGONOMETRY

(4.00 Lecture Hrs./Wk.)

4 Credits

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.

Prerequisite: MTH 111Z or placement in MTH 112Z.

SPRING

MTH 211

FUNDAMENTALS OF ELEMENTARY MATHEMATICS I

(4.00 Lecture Hrs./Wk.)

4 Credits

Students will learn concepts and teaching techniques used in elementary school mathematics. Concepts covered will include patterning and problem solving, set theory, number systems, basic operations and number theory.

Fundamentals of Elementary Mathematics series MTH 211, 212, and 213 may be taken in any sequence.

Prerequisite: MTH 095 or MTH 105Z.

FALL

MTH 212

FUNDAMENTALS OF ELEMENTARY MATHEMATICS II

(4.00 Lecture Hrs./Wk.)

4 Credits

Students will learn concepts and teaching techniques used in elementary school mathematics. Concepts covered will include number theory, integers, fractions, rational numbers, irrational numbers, probability and statistics.

Fundamentals of Elementary Mathematics series MTH 211, 212, and 213 may be taken in any sequence.

Prerequisite: MTH 095 or MTH 105Z.

WINTER

MTH 213

FUNDAMENTALS OF ELEMENTARY MATHEMATICS III

(4.00 Lecture Hrs./Wk.)

4 Credits

Students will learn concepts and teaching techniques used in elementary school mathematics. Concepts covered will include Euclidean geometry, translations, tessellations, and symmetry groups. Fundamentals of Elementary Mathematics series MTH 211, 212, and 213 may be taken in any sequence.

Prerequisite: MTH 095 or MTH 105Z.

SPRING

MTH 251Z

DIFFERENTIAL CALCULUS

(3.00 Lecture, 2.00 Lecture/Lab Hrs./Wk.)

4 Credits

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.

Prerequisite: MTH 112Z.

FALL

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A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

MTH 252Z

INTEGRAL CALCULUS

(3.00 Lecture, 2.00 Lecture/Lab Hrs./Wk.)

4 Credits

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.

Prerequisite: MTH 251Z.

WINTER

MTH 253Z

CALCULUS: SEQUENCES AND SERIES

(3.00 Lecture, 2.00 Lecture/Lab Hrs./Wk.)

4 Credits

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.

Prerequisite: MTH 252Z.

SPRING

MUP & MUS

MUSIC

No more than 12 credits may be applied to an Associate degree.

MUP 180

INDIVIDUAL LESSONS - GUITAR

(.50 Lecture, 6.00 Lab Hrs./Wk.)

1 Credit

Provides individual private guitar instruction. Develops performance skills and covers repertory and technique methods. Includes training in performance practice and stylistic interpretation through focus on tone production, technique, fretboard knowledge, sight-reading and other aspects of musicianship as applied to the guitar.

FALL, WINTER, SPRING

MUS 105

MUSIC APPRECIATION

(3.00 Lecture Hrs./Wk.)

3 Credits

Students briefly study the elements of music, then examine the major historical music eras including contemporary musical theatre, popular music, and non-western music. Includes significant art music composers and compositions from those eras.

SPRING

◇ MUS 206

INTRODUCTION TO THE HISTORY OF ROCK MUSIC

(3.00 Lecture Hrs./Wk.)

3 Credits

Introduces the history of rock music. Examines rock music's roots and development, its innovators, and significant events through a cultural as well as music perspective.

WINTER

NFM

NUTRITION & FOOD MANAGEMENT

NFM 225

HUMAN NUTRITION

(4.00 Lecture Hrs./Wk.)

4 Credits

Students develop an understanding of nutrients, their functions, food sources, effects of deficiency, recommended dietary allowances, assessment of nutritional status, practical human nutrition, and nutritional controversies including food fads and fallacies.

Prerequisite: None, but a general understanding of chemistry, human anatomy, and physiology strongly recommended.

SUMMER, WINTER, SPRING

NRS & NUR

NURSING

NRS 110

FOUNDATIONS OF NURSING IN HEALTH ASSESSMENT AND PROMOTION

(4.00 Lecture, 15.00 Lab Hrs./Wk.)

9 Credits

This course introduces the learner to framework of the OCNE curriculum. The emphasis on health promotion across the life span includes learning about self-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.

Prerequisite: Admission into Nursing Program.

Co-requisite: NRS 230.

FALL

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A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

NRS 111

FOUNDATIONS OF NURSING IN CHRONIC ILLNESS 1

(2.00 Lecture, 12.00 Lab Hrs./Wk.)

6 Credits

The course introduces the learner to the application of clinical judgment for the care of patients across the lifespan who are experiencing chronic health conditions. Legal and ethical aspects of care are incorporated to guide evidence-based, person-centered care. The course includes classroom and clinical learning experiences. This course may precede or follow Nursing in Acute Care 1.

Prerequisite: NRS 112 & NRS 232.

Co-requisite: NRS 231 & NRS 233.

SPRING

NRS 112

FOUNDATIONS OF NURSING IN ACUTE CARE 1

(2.00 Lecture, 12.00 Lab Hrs./Wk.)

6 Credits

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.

Prerequisite: NRS 110 & NRS 230.

Co-requisite: NRS 232.

WINTER

NRS 221

FOUNDATIONS OF NURSING IN CHRONIC ILLNESS 2 AND END-OF-LIFE

(4.00 Lecture, 15.00 Lab Hrs./Wk.)

9 Credits

This course builds upon Nursing in Chronic 1, with a focus on mental health conditions and end-of-life nursing care. In this course, learners will apply clinical judgment using person-centered care practices in caring for people with chronic physical and/or mental health conditions that affect functional status and may impact important relations. Legal and ethical aspects of care are incorporated to guide evidence-based, person-centered nursing care. The course includes classroom and clinical learning experiences. This course may precede or follow Nursing in Acute Care 2.

Prerequisite: NRS 111, NRS 231 & NRS 233.

FALL

NRS 222

NURSING IN ACUTE CARE 2 & END-OF-LIFE

(4.00 Lecture, 15.00 Lab Hrs./Wk.)

9 Credits

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.

Prerequisite: NRS 221.

WINTER

NRS 224

NURSING: INTEGRATIVE PRACTICUM

(2.00 Lecture, 21.00 Lab Hrs./Wk.)

9 Credits

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.

Prerequisite: NRS 222.

SPRING

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A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

NRS 230

CLINICAL PHARMACOLOGY 1

(3.00 Lecture Hrs./Wk.)

3 Credits

This course introduces the theoretical background that enables students to provide safe and effective care related to drugs and natural products to persons throughout the lifespan. It includes the foundational concepts of principles of pharmacology, 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.

Prerequisite: Admission into Nursing Program.

Co-requisite: NRS 110.

FALL

NRS 231

CLINICAL PHARMACOLOGY 2

(3.00 Lecture Hrs./Wk.)

3 Credits

This sequel to Clinical Pharmacology 1 continues to provide the theoretical background that enables students to provide safe and effective nursing care related to drugs and natural products to persons throughout the lifespan. Students will learn to make selected clinical decisions in the context of nursing regarding using current, reliable sources of information, monitoring and evaluating the effectiveness of drug therapy, teaching persons from diverse populations regarding safe and effective use of drugs and natural products, intervening to increase therapeutic benefits and reduce potential negative effects, and communicating appropriately with other health professionals regarding drug therapy. The course addresses additional classes of drugs and related natural products not contained in Clinical Pharmacology 1.

Prerequisite: NRS 112, NRS 230 & NRS 232.

Co-requisite: NRS 111 & NRS 233.

SPRING

NRS 232

PATHOPHYSIOLOGICAL PROCESSES 1

(3.00 Lecture Hrs./Wk.)

3 Credits

This course introduces pathophysiological processes that contribute to many different disease states across the lifespan and human responses to those processes. It includes the foundational concepts of cellular adaptation, injury, and death; inflammation and tissue healing; fluid and electrolyte imbalances; and physiologic response to stressors and pain, as well as additional pathophysiological processes. Students will learn to make clinical decisions using critical thinking in the context of nursing regarding using current, reliable sources of pathophysiology information, selecting and interpreting focused nursing assessments based on knowledge of pathophysiological processes, teaching persons from diverse populations regarding pathophysiological processes, and communicating with other health professionals regarding pathophysiological processes.

Prerequisite: NRS 110 & NRS 230.

Co-requisite: NRS 112.

WINTER

NRS 233

PATHOPHYSIOLOGICAL PROCESSES 2

(3.00 Lecture Hrs./Wk.)

3 Credits

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 using current, reliable sources of pathophysiology information, selecting and interpreting focused nursing assessments based on knowledge of pathophysiological processes, teaching persons from diverse populations regarding pathophysiological processes, and communicating with other health professionals regarding pathophysiological processes. The course addresses additional pathophysiological processes not contained in Pathophysiological Processes 1.

Prerequisite: NRS 112 & NRS 232.

Co-requisite: NRS 111 & NRS 231.

SPRING

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "Ø" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

NUR 111

NURSING CONCEPTS AND CLINICAL PRACTICE

(20.00 Lecture, 30.00 Lab Hrs. Total)

3 Credits

Introduces fundamental concepts of the Clatsop Community College nursing curriculum and reviews previously learned skills for students who have previous nursing education (i.e., advanced placement or re-entering students into the Nursing Program). Course may be repeated 3 times.

Prerequisite: Advanced placement admission to the nursing program (admission at any point beyond NRS 110).

FALL, WINTER, SPRING

NUR 9461

NURSING ASSISTANT

(120.00 Lecture/Lab Hrs. Total)

6 Credits

Students acquire, demonstrate and deliver routine patient care to residents of long-term care and other facilities. This course includes instruction in basic bedside nursing skills, restorative services, mental health, and social needs as well as personal care skills and patient rights. Students will be given an introduction to anatomy and physiology. This course meets the requirements of the Oregon State Board of Nursing to qualify for testing to become a Certified Nursing Assistant.

Prerequisite: Instructor approval.

SUMMER

PE PHYSICAL EDUCATION

No more than six credits of PE 185 from two or more activities may be applied to an associate degree; one credit must be at the intermediate level.

PE 185AA

DANCE FITNESS - BEGINNING

(3.00 Lab Hrs./Wk.)

1 Credit

Students learn and participate in a variety of dance and aerobic exercises designed to increase the strength and capacity of the cardiovascular system. Students will be instructed in and execute heart rate monitoring, proper warm-up and cool down techniques and participate in other exercises that compliment aerobic exercise.

FALL, WINTER, SPRING

PE 185AB

DANCE FITNESS - INTERMEDIATE

(3.00 Lab Hrs./Wk.)

1 Credit

Students continue to participate in activities and develop benefits acquired in the PE 185 Dance Fitness-Beginning. Students will continue to participate in different dance and aerobic activities that increase cardiovascular strength and develop a clear understanding in the importance of including aerobic exercise into a healthy lifestyle. **Prerequisite:** PE 185AA Dance Fitness-Beginning.

FALL, WINTER, SPRING

PE 185BA

BASKETBALL - BEGINNING

(3.00 Lab Hrs./Wk.)

1 Credit

Students learn and practice skills related to the game of basketball. Provides sufficient skills and knowledge to serve the student's recreational interest as a player or spectator.

OFFERED AS NEEDED

PE 185BB

BASKETBALL - INTERMEDIATE

(3.00 Lab Hrs./Wk.)

1 Credit

Students develop and practice beginning and more advanced basketball skills. Advanced offensive and defensive concepts and patterns of the game will be introduced and practiced.

Prerequisite: PE 185BA Basketball-Beginning.

OFFERED AS NEEDED

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A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

PE 185CA

CROSS TRAINING FOR FITNESS - BEGINNING

(3.00 Lab Hrs./Wk.)

1 Credit

Students combine different components of sports and recreational activities along with fitness components producing a workout that will enhance one's cardiovascular fitness as well as agility, speed, strength, balance, and flexibility. This class includes components of kickboxing, plyometrics, martial arts, aerobic conditioning, yoga, strength training and other activities related to fitness, recreation, and sports.

OFFERED AS NEEDED

PE 185CB

CROSS TRAINING FOR FITNESS - INTERMEDIATE

(3.00 Lab Hrs./Wk.)

1 Credit

Students combine different components of sports and recreational activities along with fitness components will be combined to produce a workout that will continue to enhance one's cardiovascular fitness as well as agility, speed, strength, balance, coordination, and flexibility. This class includes components of kickboxing, plyometrics, martial arts, strength training, aerobic conditioning, yoga and other activities related to fitness, recreation, and sports.

Prerequisite: PE 185CA Cross Training for Fitness – Beginning.

OFFERED AS NEEDED

PE 185HA

HATHA YOGA - BEGINNING

(3.00 Lab Hrs./Wk.)

1 Credit

Students practice physical yoga postures (asanas) to train a stable, strong, and flexible body. They develop an understanding of how a stable body helps create a steady, concentrated mind.

SUMMER, FALL, WINTER, SPRING

PE 185HB

HATHA YOGA - INTERMEDIATE

(3.00 Lab Hrs./Wk.)

1 Credit

Students gain further knowledge of Hatha Yoga by practice of yoga postures (asanas) and their sequential progression. They develop an understanding of how a stable body helps create a steady, concentrated mind.

Prerequisite: PE 185HA Hatha Yoga – Beginning.

SUMMER, FALL, WINTER, SPRING

PE 185PA

PERSONAL FITNESS - BEGINNING

(3.00 Lab Hrs./Wk.)

1 Credit

Students develop and actively participate in an individualized fitness program emphasizing cardiovascular fitness muscular strength, endurance, and flexibility.

SUMMER, FALL, SPRING

PE 185PB

PERSONAL FITNESS - INTERMEDIATE

(3.00 Lab Hrs./Wk.)

1 Credit

Students develop and actively participate in an individualized conditioning program emphasizing cardiovascular fitness muscular strength, endurance and flexibility. They receive information on weight control and nutrition.

Prerequisite: PE 185PA Personal Fitness-Beginning.

SUMMER, FALL, SPRING

PE 185PC

PILATES - BEGINNING

(3.00 Lab Hrs./Wk.)

1 Credit

Students participate in a specific series of exercises, known as Pilates, done in a certain sequence while lying on a mat. The exercises are designed to promote a balanced musculoskeletal system, resulting in core strength, flexibility, good posture and improved body awareness.

OFFERED AS NEEDED

PE 185PD

PILATES - INTERMEDIATE

(3.00 Lab Hrs./Wk.)

1 Credit

Students participate in a specific series of exercises, known as Pilates, done in a certain sequence while lying on a mat. The exercises are designed to promote a balanced musculoskeletal system, resulting in core strength, flexibility, good posture and improved body awareness. Students will further there Pilates practice by practicing more advanced and difficult exercises.

Prerequisite: PE 185PC Pilates – Beginning.

OFFERED AS NEEDED

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A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

PE 185RA

WALKING OR RUNNING FOR FITNESS - BEGINNING

(3.00 Lab Hrs./Wk.)

1 Credit

Students learn to plan a walking and/or running training schedule that includes improvement of fitness prevention of injury and selection of appropriate attire and shoes for a variety of weather and training conditions. Students learn the value of low impact fitness activity on improving cardiovascular fitness and maintenance or attainment of desired body weight.

SUMMER, FALL, WINTER, SPRING

PE 185RB

WALKING OR RUNNING FOR FITNESS - INTERMEDIATE

(3.00 Lab Hrs./Wk.)

1 Credit

Students learn to plan a walking and/or running training schedule that includes improvement of fitness prevention of injury, maintaining fitness levels and selection of appropriate attire and shoes for a variety of weather and training conditions. Students learn the value of low impact fitness activities and the importance of increasing the intensity of the fitness activities and how they relate to improving cardiovascular fitness and maintaining or improving body composition to attain an ideal or more desired body weight.

Prerequisite: PE 185RA Walking or Running for Fitness - Beginning.

SUMMER, FALL, WINTER, SPRING

PE 185TA

RACQUET SPORTS - BEGINNING

(3.00 Lab Hrs./Wk.)

1 Credit

Students learn the basic skills, strategy and rules needed to play badminton, pickleball, and tennis at a recreational level.

OFFERED AS NEEDED

PE 185TB

RACQUET SPORTS - INTERMEDIATE

(3.00 Lab Hrs./Wk.)

1 Credit

Students learn the basic and intermediate skills, strategy and rules needed to play badminton, pickleball, and tennis at a competitive level.

Prerequisite: PE 185TA Racquet Sports-Beginning

OFFERED AS NEEDED

PE 185VA

VOLLEYBALL - BEGINNING

(3.00 Lab Hrs./Wk.)

1 Credit

Students develop and apply the fundamental skills, strategies, rules, and etiquette of volleyball.

FALL, WINTER

PE 185VB

VOLLEYBALL - INTERMEDIATE

(3.00 Lab Hrs./Wk.)

1 Credit

Students improve volleyball skills, develop team play and strategies and acquire advanced individual and team skills and techniques.

Prerequisite: PE 185 VA Volleyball Beginning.

FALL, WINTER

PE 185WA

WEIGHT TRAINING - BEGINNING

(3.00 Lab Hrs./Wk.)

1 Credit

Students will engage in various methods of weight training which emphasize progressive strength training and lifetime fitness.

FALL, WINTER, SPRING

PE 185WB

WEIGHT TRAINING - INTERMEDIATE

(3.00 Lab Hrs./Wk.)

1 Credit

Students will engage in various methods of weight training which emphasize lifetime fitness. Students will continue to execute plans and training methods toward personal workout goals.

Prerequisite: PE 185WA Weight Training-Beginning.

FALL, WINTER, SPRING

PH PHYSICS

PH 201

GENERAL PHYSICS

(4.00 Lecture, 3.00 Lab Hrs./Wk.)

5 Credits

Students develop a general knowledge of physics from mechanics to nuclear physics, particularly the law of conservation of energy and how it relates to humans in everyday life.

Prerequisite: MTH 095.

FALL

PH 202

GENERAL PHYSICS

(4.00 Lecture, 3.00 Lab Hrs./Wk.)

5 Credits

Students utilize direct inquiry, discussion with peers, and a microcomputer to take the role of a physicist. Students develop mathematical descriptions of mechanical motion.

Prerequisite: MTH 111Z or concurrent enrollment in MTH 111Z.

WINTER

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "C" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

PH 203

GENERAL PHYSICS

(4.00 Lecture, 3.00 Lab Hrs./Wk.)

5 Credits

Students utilize direct inquiry, discussion with peers, and a microcomputer, to take the role of the physicist. Students develop mathematical descriptions of rotational motion, thermodynamics, and electric current.

Prerequisite: PH 202.

SPRING

PH 211

GENERAL PHYSICS WITH CALCULUS

(10.00 Lecture/Lab Hrs./Wk.)

5 Credits

Students utilize direct inquiry, discussion with peers, and a computer to take the role of a physicist: observing, acquiring data, and analyzing results rapidly and accurately to develop multiple representations of mechanical motion. This sequence is for students planning further study in science or engineering. This course is a hybrid of a lecture/laboratory class with an online component. Students will learn physics concepts through mini lectures, laboratory activities and online computer simulations and mathematical modeling. Instruction will take place in the classroom for 7 hours per week and 3 hours of online instruction per week.

Prerequisite: Completion of, or concurrent enrollment in MTH 251Z.

FALL

PH 212

GENERAL PHYSICS WITH CALCULUS

(10.00 Lecture/Lab Hrs./Wk.)

5 Credits

Students utilize direct inquiry, discussion with peers, and a computer to develop mathematical descriptions for mechanical energy, rotational motion, and static electricity. This course is a hybrid of a lecture laboratory class with an online component. Students will learn physics concepts through mini lectures, laboratory activities and online computer simulations and mathematical modeling that will take place outside of the classroom. Instruction will take place in the classroom for 7 hour per week and 3 hours of online instruction per week.

Prerequisite: PH 211.

Co-requisite: MTH 252Z.

WINTER

PH 213

GENERAL PHYSICS WITH CALCULUS

(10.00 Lecture/Lab Hrs./Wk.)

5 Credits

Students utilize direct inquiry, discussion with peers, and a computer to develop mathematical descriptions for electricity, magnetism and thermodynamics. This course is a hybrid of a lecture laboratory class with an online component. Students will learn physics concepts through mini lectures, laboratory activities and online computer simulations and mathematical modeling that will take place outside of the classroom. Instruction will take place in the classroom for 7 hour per week and 3 hours of online instruction per week.

Prerequisite: PH 212.

Co-requisite: MTH 252Z.

SPRING

PHL PHILOSOPHY

PHL 101

PHILOSOPHICAL PROBLEMS

(3.00 Lecture Hrs./Wk.)

3 Credits

Students learn to use philosophy as a discipline to apply to all human experience and knowledge, and understand the philosophical questions that have focused human speculation about reality, humanity, the mind and the self throughout human history.

FALL

PHL 102

ETHICS

(3.00 Lecture Hrs./Wk.)

3 Credits

Students develop an understanding of key ethical problems that have confronted mankind across cultures and times, ethical codes used to resolve them, and how these can be applied to current social issues.

SUMMER, FALL, WINTER, SPRING

PHL 103

CRITICAL REASONING

(3.00 Lecture Hrs./Wk.)

3 Credits

Students develop concepts and tools for rational analysis and creative thinking, and learn to assess habits of mind that lead to shallow and fallacious thinking.

OFFERED AS NEEDED

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A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

PS

POLITICAL SCIENCE

PS 201

AMERICAN GOVERNMENT

(3.00 Lecture Hrs./Wk.)

3 Credits

Students will examine the basic background of American traditions of Government and the American Constitution. Topics of special interest include: the Constitution, the Bill of Rights, political culture, interest groups, political parties, public opinion, politics, campaigns, and elections.

FALL

PSY

PSYCHOLOGY

PSY 101

PSYCHOLOGY OF HUMAN RELATIONS

(3.00 Lecture Hrs./Wk.)

3 Credits

Students learn to apply scientific knowledge from psychology to improve relationships with self and others. This course includes self-exploration and practice of interpersonal skills.

OFFERED AS NEEDED

PSY 201Z

INTRODUCTION TO PSYCHOLOGY I

(4.00 Lecture Hrs./Wk.)

4 Credits

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.

OFFERED AS NEEDED

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "Ø" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

PSY 202Z

INTRODUCTION TO PSYCHOLOGY II

(4.00 Lecture Hrs./Wk.)

4 Credits

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.

Prerequisite: WR 121Z.

OFFERED AS NEEDED

PSY 215

INTRODUCTION TO DEVELOPMENTAL PSYCHOLOGY

(3.00 Lecture Hrs./Wk.)

3 Credits

Students gain knowledge of human development from conception to old age, with emphasis on the personality and social issues, brain and cognitive changes over the life span.

Prerequisite: PSY 201Z or PSY 202Z strongly recommended.

OFFERED AS NEEDED

PSY 219

INTRODUCTION TO ABNORMAL PSYCHOLOGY

(3.00 Lecture Hrs./Wk.)

3 Credits

Students develop a basic understanding of the prevalence, potential causes, lived experience, diagnosis and treatment of emotional, mental, and behavioral disorders; this based on current scientific and professional definitions and standards, and set in the context of a society in flux.

OFFERED AS NEEDED

SOC SOCIOLOGY

◇ SOC 204Z

INTRODUCTION TO SOCIOLOGY

(4.00 Lecture Hrs./Wk.)

4 Credits

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.

SUMMER, FALL

◇ SOC 205Z

SOCIAL CHANGE AND INSTITUTIONS

(4.00 Lecture Hrs./Wk.)

4 Credits

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.

WINTER, SPRING

◇ SOC 206Z

SOCIAL PROBLEMS

(4.00 Lecture Hrs./Wk.)

4 Credits

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.

OFFERED AS NEEDED

◇ SOC 225

SOCIOLOGY OF GLOBALIZATION

(4.00 Lecture Hrs./Wk.)

4 Credits

Provides an introduction to the economic, political, social, and cultural dimensions of globalization. Critically examines the problems associated with increased globalization and transnational processes. Topics vary and may include: global distribution of wealth, global economies, causes and effects of transnational migration, warfare, environmental issues including consumption and resource scarcity, and possible solutions to global problems.

OFFERED AS NEEDED

SPAN SPANISH

◇ SPAN 101

FIRST YEAR SPANISH

(4.00 Lecture, 1.00 Lecture/Lab Hrs./Wk.)

4 Credits

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A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

Students learn basic communication skills with emphasis on oral communication and elementary grammar. Students are exposed to the culture and traditions of the Spanish-Speaking countries. This is an introduction to the Spanish language.

FALL

◊ SPAN 102

FIRST YEAR SPANISH

(4.00 Lecture, 1.00 Lecture/Lab Hrs./Wk.)

4 Credits

Students expand their basic communication skills with continued emphasis on oral communication and elementary grammar. Students continue to explore Spanish and Latin American culture through appropriate themes and audio-visual material. This is a continuation of SPAN 101.

Prerequisite: SPAN 101 or instructor approval.

WINTER

◊ SPAN 103

FIRST YEAR SPANISH

(4.00 Lecture, 1.00 Lecture/Lab Hrs./Wk.)

4 Credits

Students further expand their basic communication skills with emphasis on oral communication and elementary grammar. Hispanic culture is approached through appropriate themes and audio-visual material. This is a continuation of SPAN 102.

Prerequisite: SPAN 102 or instructor approval.

SPRING

◊ SPAN 201

SECOND YEAR SPANISH

(4.00 Lecture Hrs./Wk.)

4 Credits

Students continue to develop oral communication skills. Listening and reading comprehension, with writing exercises, are integrated to develop and reinforce intermediate speaking skills. Cultural awareness is achieved through reading material, class discussions and audio-visual material. This is a continuation of SPAN 103.

Prerequisite: SPAN 103.

FALL

◊ SPAN 202

SECOND YEAR SPANISH

(4.00 Lecture Hrs./Wk.)

4 Credits

Students enhance their writing, reading, and speaking ability through conversational skills and extensive writing in order to reinforce intermediate proficiency. Cultural awareness is achieved through reading material, class discussions and audio-visual material. This is a continuation of SPAN 201.

Prerequisite: SPAN 201.

WINTER

◊ SPAN 203

SECOND YEAR SPANISH

(4.00 Lecture Hrs./Wk.)

4 Credits

Students practice Spanish in a communicative context through reading and writing about Spanish and Spanish-American customs and traditions. Cultural awareness is achieved through reading material, class discussions and audio-visual material. This is a continuation of SPAN 202.

Prerequisite: SPAN 202.

SPRING

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "◊" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

STAT STATISTICS

STAT 243Z

ELEMENTARY STATISTICS I

(4.00 Lecture Hrs./Wk.)

4 Credits

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.

Prerequisite: MTH 095, MTH 105Z, or placement into MTH 243Z

FALL, WINTER, SPRING

STAT 244

ELEMENTARY STATISTICS II

(4.00 Lecture Hrs./Wk.)

4 Credits

A second course in statistics focusing on the interpretation and communication of statistical concepts. Students will demonstrate their knowledge of descriptive and inferential statistics through the use of basic one- and two-sample inferential techniques and current technology. For students majoring in the arts, sciences and business programs that require two terms of statistics.

Prerequisite: STAT 243Z.

SPRING

WGS WOMEN & GENDER STUDIES

◇ WGS 111

GENDER, BEAUTY IDEALS, AND MEDIA

(4.00 Lecture Hrs./Wk.)

4 Credits

Students will explore the impact beauty ideals have on women and girls in the United States. Disordered eating, violence against women, and Eurocentrism will be analyzed, specifically in how they relate to beauty standards.

SUMMER

◇ WGS 201

INTRODUCTION TO WOMEN'S STUDIES

(4.00 Lecture Hrs./Wk.)

4 Credits

Students are introduced to the interdisciplinary field of Women's Studies. Students explore ways in which sex and gender are used in social, cultural, and political contexts. Students dissect the social construction of gender and will analyze and critique gendered experiences. In addition, students study interlocking systems of oppression such as homophobia/heterosexism, racism, classism, sexism, ableism, and ethnocentrism.

Prerequisite: SOC 204Z or SOC 205Z.

FALL

◇ WGS 210

CULTURAL PERSPECTIVE OF WOMEN OF COLOR

(4.00 Lecture Hrs./Wk.)

4 Credits

Students will examine Women of Color writers' contributions to feminist theory. Topics such as feminism, womanism, patriarchy, racism, classism, immigration, sexuality and dominant culture will be explored.

OFFERED AS NEEDED

◇ WGS 230

WOMEN AND SOCIAL ACTION

(4.00 Lecture Hrs./Wk.)

4 Credits

Students will examine women's roles in social action/activism throughout the 19th, 20th and 21st centuries. Systems of oppression such as sexism, classism, racism and heterosexism will be analyzed. Social movements such as the suffragist, civil rights, women's rights, gay and lesbian rights and eco-feminism will be critically analyzed and critiqued.

WINTER

WLD WELDING

WLD 100

MATERIALS PROCESSING

(20.00 Lecture/Lab Hrs./Cr.)

1-4 Credits

Students gain knowledge of the principles, equipment and skills necessary to identify and process varied materials utilized in the metal fabrication industry. This is a competency-based program. Course curriculum follows the AWS specifications for qualification and certification of QC10 Entry Level Welder.

Prerequisite: Completion of, or concurrently enrolled in, IT 140.

FALL, WINTER, SPRING

CULTURAL LITERACY OUTCOMES will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with "◇" symbol.

A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

WLD 101

SHIELDED METAL ARC WELDING

(20.00 Lecture/Lab Hrs./Cr.)

1-10 Credits

In a competency-based program, students gain knowledge of the principles, equipment and skills used in the Shielded Metal Arc Welding Process, involving base metals and joints common to industry. Course curriculum follows the AWS specifications for qualification and certification of QC10 Entry Level Welder.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

WLD 102

GAS METAL ARC WELDING

(20.00 Lecture/Lab Hrs./Cr.)

1-9 Credits

In a competency-based program, students gain knowledge of the principles, equipment and skills used in the gas metal arc welding process, involving various base metals and joints common to industry. Course curriculum follows the AWS specifications for qualification and certification of QC10 Entry Level Welder.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

WLD 103

FLUX CORE ARC WELDING

(20.00 Lecture/Lab Hrs./Cr.)

1-9 Credits

In a competency-based program, students gain knowledge of the principles, equipment and skills used in the flux core arc welding process, involving various base metals and joints common to industry. Course curriculum follows the AWS specifications for qualification and certification of QC10 Entry Level Welder.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

WLD 104

GAS TUNGSTEN ARC WELDING

(20.00 Lecture/Lab Hrs./Cr.)

1-8 Credits

In a competency-based program, students gain knowledge of the principles, equipment and skills used in the gas tungsten arc welding process, involving various base metals and joints common to industry. Course curriculum follows the AWS specifications for qualification and certification of QC10 Entry Level Welder.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

WLD 105

FLUX CORE ARC WELDING - SELF-SHIELDED PROCESS

(20.00 Lecture/Lab Hrs./Cr.)

1-9 Credits

In a competency-based program, students gain knowledge of the principles, equipment and skills used in the flux core arc welding-self shielded process, involving various base metals and joints common to industry. Course curriculum follows the AWS specifications for qualification and certification of QC IO Entry Level Welder.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

WLD 140

ARC WELDING TECHNOLOGIES

(1.00 Lecture Hrs./Wk.)

1 Credits

In a competency-based program, students gain knowledge of the principles, equipment and skills used in the shielded metal, gas metal, flux core, and gas tungsten arc welding processes.

Prerequisite: Completion of, or concurrently enrolled in, IT 140.

FALL, WINTER, SPRING

WLD 150

BEGINNING WELDING

(20.00 Lecture/Lab Hrs./Cr.)

1-9 Credits

The student is introduced to welding in this flexible, variable credit course designed to meet a wide variety of student goals. The point of entry into the curriculum depends on the student's previous experience with the discipline. The course is divided into small segments, called performance objectives, which allow the student to complete as many credits as they may have time to complete.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

WLD 160

INTERMEDIATE WELDING

(20.00 Lecture/Lab Hrs./Cr.)

1-12 Credits

Students develop welding skills to industrial standards in any or all of the following processes: shielded metal arc welding, gas metal arc welding, and flux core arc welding in all positions; and tungsten inert gas welding on carbon steel, stainless steel and aluminum. Students learn basic welding metallurgy and weld testing methods.

Prerequisite: WLD 150 or instructor approval.

FALL, WINTER, SPRING

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A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

WLD 170

ADVANCED WELDING

(20.00 Lecture/Lab Hrs./Cr.)

1-15 Credits

Students develop welding skills to job entry level including welding design and fabrication methods, joint design, and fundamental welding metallurgy.

Prerequisite: WLD 160 or instructor approval.

FALL, WINTER, SPRING

WLD 190

WELDING CERTIFICATION PREPARATION

(20.00 Lecture/Lab Hrs./Cr.)

1-9 Credits

Students develop skill in the forms of welding tested in various welding certification examinations including pipe and plate welding skills.

Prerequisite: WLD 160 or instructor approval.

FALL, WINTER, SPRING

WLD 205

ADVANCED SHIELDED METAL ARC WELDING

(20.00 Lecture/Lab Hrs./Cr.)

1-15 Credits

Students gain knowledge of the principles, equipment and skills used in the Shielded Metal Arc Welding Process, involving base metals and joints common to industry. Course curriculum includes portions of the AWS specifications for qualification and certification of QC11 Advanced Welder, in a competency-based program.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

WLD 206

ADVANCED GAS METAL ARC WELDING

(20.00 Lecture/Lab Hrs./Cr.)

1-9 Credits

Students gain knowledge of the principles, equipment and skills used in the gas metal arc welding process, involving various base metals and joints common to industry. Course curriculum includes portions of the AWS specifications for qualification and certification of QC11 Advanced Welder, in a competency-based program.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

WLD 207

ADVANCED FLUX CORE ARC WELDING PROCESS

(20.00 Lecture/Lab Hrs./Cr.)

1-9 Credits

Students gain knowledge of the principles, equipment and skills used in the flux core arc welding process, involving various base metals and joints common to industry. Course curriculum includes portions of the AWS specifications for qualification and certification of QC11 Advanced Welder, in a competency-based program.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

WLD 208

ADVANCED GAS TUNGSTEN ARC WELDING PROCESS

(20.00 Lecture/Lab Hrs./Cr.)

1-8 Credits

Students gain knowledge of the principles, equipment and skills used in the gas tungsten arc welding process, involving various base

metals and joints common to industry. Course curriculum includes portions of the AWS specifications for qualification and certification of QC11 Advanced Welder, in a competency-based program.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

WLD 209

WELDING FABRICATION

(20.00 Lecture/Lab Hrs./Cr.)

1-10 Credits

Students gain knowledge of the principles, equipment and skills used in welding fabrication, involving various base metals and joints common to industry, in a competency-based program.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

WLD 210

PIPE WELDING FABRICATION

(20.00 Lecture/Lab Hrs./Cr.)

1-12 Credits

Students gain knowledge of the principles, equipment and skills used in the shielded metal, gas metal, flux core, and gas tungsten arc welding for the three general categories of pipe welds, in a competency-based program.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

WLD 220

STRUCTURAL STEEL WELDING

(20.00 Lecture/Lab Hrs./Cr.)

1-15 Credits

Students gain knowledge of the principles, equipment, and skills used in Structural Steel Welding, involving base metals and joints common to industry. Course curriculum includes portions of the AWS D1.1, AWS D1.5, and AWS D1.8 specifications for qualification and certification, in a competency-based program.

Prerequisite: Instructor approval.

FALL, WINTER, SPRING

WLD 290

WELDING CERTIFICATION

(3.00 Lecture/Lab Hrs./Wk.)

2 Credits

Students develop and practice the skills required to complete the welding qualification examinations of The American Welding Society code D1.1 Structural Steel.

Prerequisite: WLD 190 or Instructor approval.

FALL, WINTER, SPRING

WR WRITING

WR 115

INTRODUCTION TO COLLEGE COMPOSITION

(4.00 Lecture Hrs./Wk.)

4 Credits

Introduction to College Composition introduces students to the expectations of college-level reading, thinking, and writing through the lens of a basic rhetorical vocabulary. Students will engage in a collaborative writing process to draft and revise text for a variety of purposes and audiences, writing in more than one nonfiction genre. Reading, writing, and critical thinking activities will focus on

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A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

inquiry and the development of students' metacognitive awareness of individualized writing strategies. Students will review, recognize, and practice the conventions of Standard Edited English. Later in the quarter, students will begin to summarize, paraphrase, and quote secondary sources, practicing MLA citation conventions. Students will polish one formal essay of 700-800 words and a total of 2000-2500 words of revised, final draft copy over the term. Courses may include multimodal projects.

Prerequisite: LA 090 or placement into WR 115.

SUMMER, FALL, WINTER, SPRING

WR 121Z COMPOSITION I

(4.00 Lecture Hrs./Wk.)

4 Credits

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.

Prerequisite: WR 115 or Placement into WR 121Z.

SUMMER, FALL, WINTER, SPRING

WR 122Z COMPOSITION II

(4.00 Lecture Hrs./Wk.)

4 Credits

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.

Prerequisite: WR 121Z.

SUMMER, FALL, WINTER, SPRING

WR 227Z TECHNICAL WRITING

(4.00 Lecture Hrs./Wk.)

4 Credits

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.

Prerequisite: WR 121Z.

SUMMER, FALL, WINTER, SPRING

WR 240 INTRODUCTION TO NONFICTION

(3.00 Lecture Hrs./Wk.)

3 Credits

Part of a three-course workshop sequence that introduces students to the techniques of creative writing in nonfiction. Students will examine the conventions for a variety of subgenres of nonfiction, including: journalism; memoir; nature, travel and food writing; and micro-nonfiction, as well as produce original works of nonfiction that will go through a collaborative creative writing workshop. Students will read and research contemporary nonfiction that will expand their views on cultural, canonical, and genre-specific nuance while furthering their creative exploration through the lenses of publishing, creativity, and intersectionality.

Prerequisite: WR 121Z.

SPRING

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A PREREQUISITE FOR A COURSE:

- Can be met with instructor approval.
- Must have a "C" grade or higher.

COURSE DESCRIPTIONS

WR 241

INTRODUCTION TO FICTION

(4.00 Lecture Hrs./Wk.)

4 Credits

Part of three-course workshop sequence that introduces students to the techniques of creative writing in works of fiction. Students will examine the way short stories, genre fiction, and contemporary novels fit in the greater creative writing canon through the lenses of publishing, creativity, and story structure. They will produce and workshop original works of fiction and familiarize themselves with a collaborative creative writing critique process. They will also focus on contemporary literature readings that will expand their views on cultural, canonical, and genre-specific nuance while furthering their creative exploration.

Prerequisite: WR 121Z.

FALL

WR 242

INTRODUCTION TO POETRY

(4.00 Lecture Hrs./Wk.)

4 Credits

Part of a three-course workshop sequence that introduces students to the techniques of creative writing in both individual and collections of poetry. Students will examine the historical context, poetic forms, and conventions for this genre of creative writing as well as how contemporary poetry fits in the greater creative writing canon through the lenses of publishing, creativity, and intersectionality. They will produce and workshop original poems and familiarize themselves with a collaborative creative writing critique process. They will also focus on contemporary poetic readings that will expand their views on cultural, canonical, and genre-specific nuance while furthering their creative exploration.

Prerequisite: WR 121Z.

WINTER

WR 249

WRITING CHILDREN'S BOOKS

(4.00 Lecture Hrs./Wk.)

4 Credits

Students learn the techniques of writing for children: choosing an appropriate topic, creating vivid characters, using visual imagery, editing for young readers, and determining age appropriateness. Students will write fiction, non-fiction, and poems, and will design a picture book. Publishing will also be discussed.

OFFERED AS NEEDED

WR 270

LITERARY PUBLISHING

(3.00 Lecture, 2.00 Lecture/Lab Hrs./Wk.)

4 Credits

Participating in a collaborative staff environment, students learn the fundamentals of professionally publishing a literary magazine. Students use discipline appropriate technology to edit, design and layout a publication and prepare it for press.

Prerequisite: WR 121Z.

WINTER

WR 271

ADVANCED LITERARY PUBLICATIONS

(3.00 Lecture, 2.00 Lecture/Lab Hrs./Wk.)

4 Credits

Students develop advanced skills in the craft of magazine editing, writing, publication, and design. Students take responsibility for literary publishing activities including analyzing submissions, coordinating a production schedule, corresponding with contributors, fundraising, designing pages and covers, communicating with publishers, and promoting the final publication.

Prerequisite: WR 270.

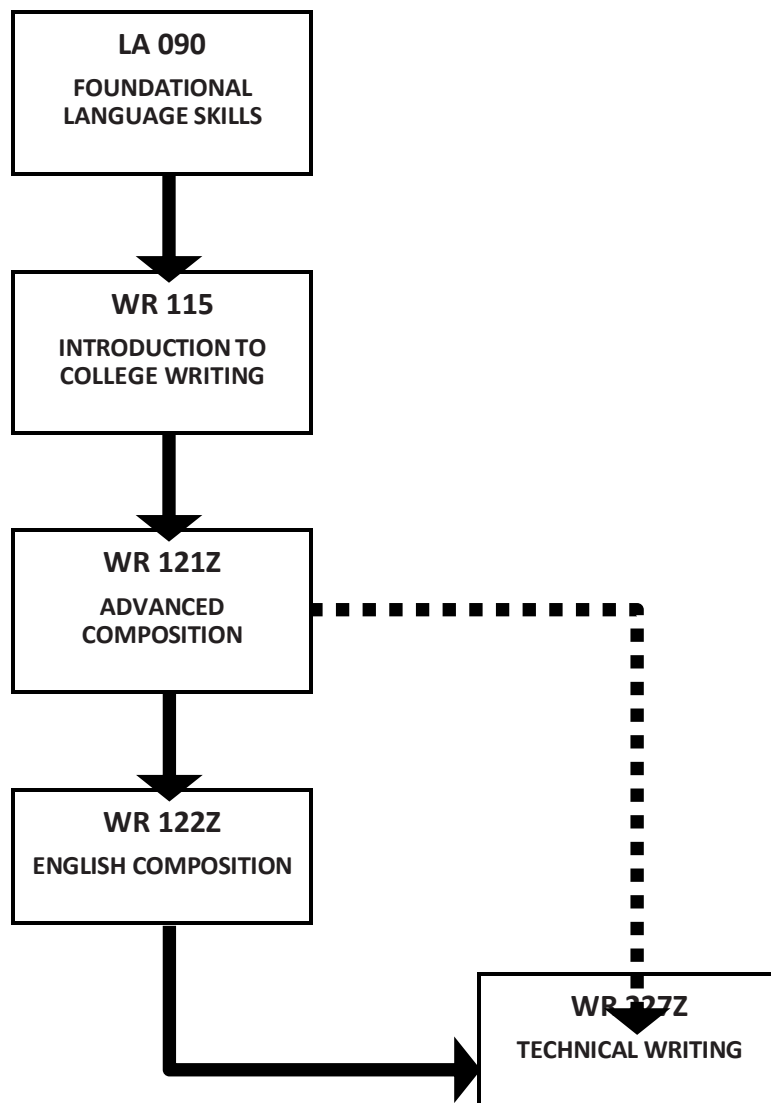
WINTER

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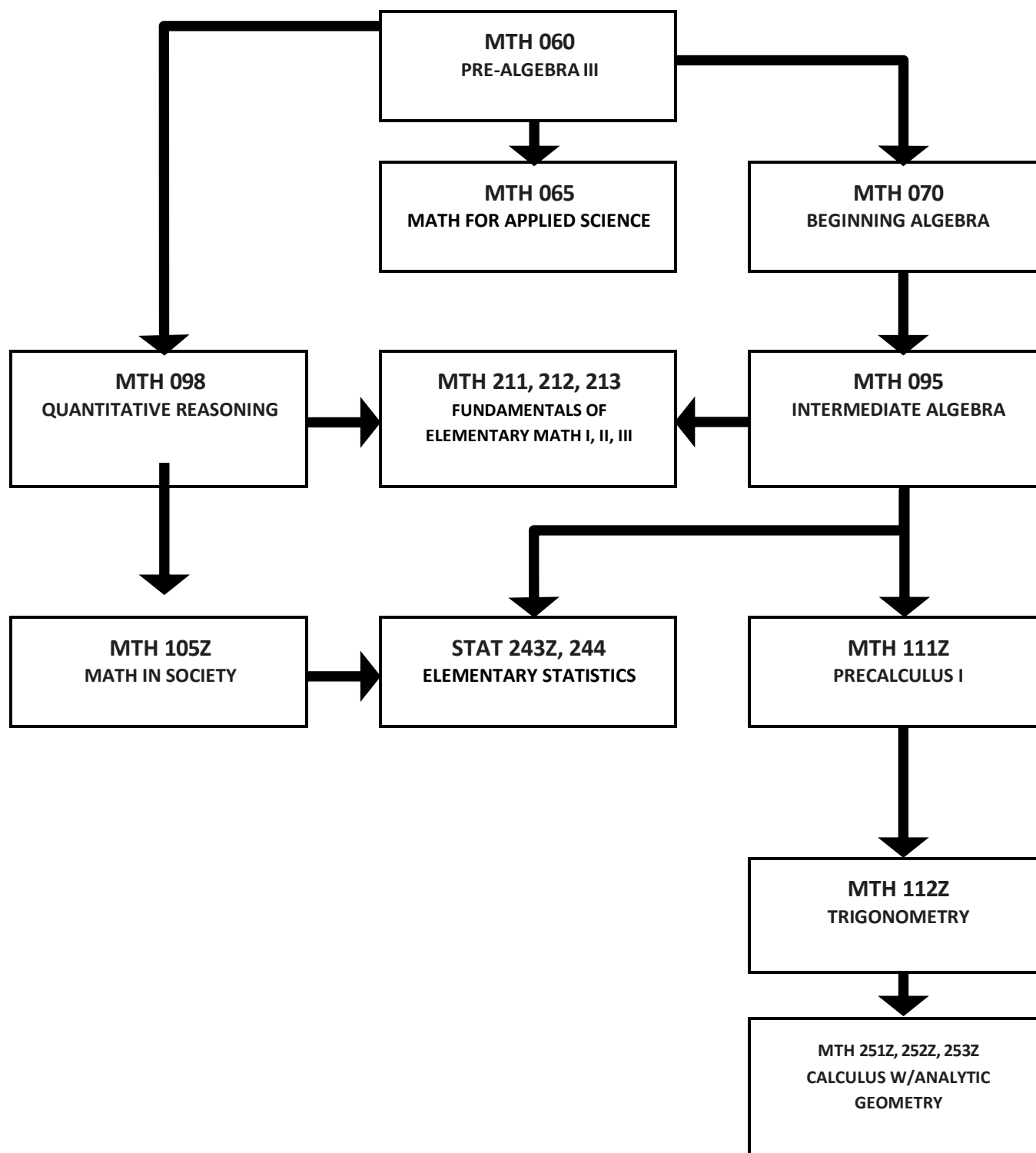
A PREREQUISITE FOR A COURSE:

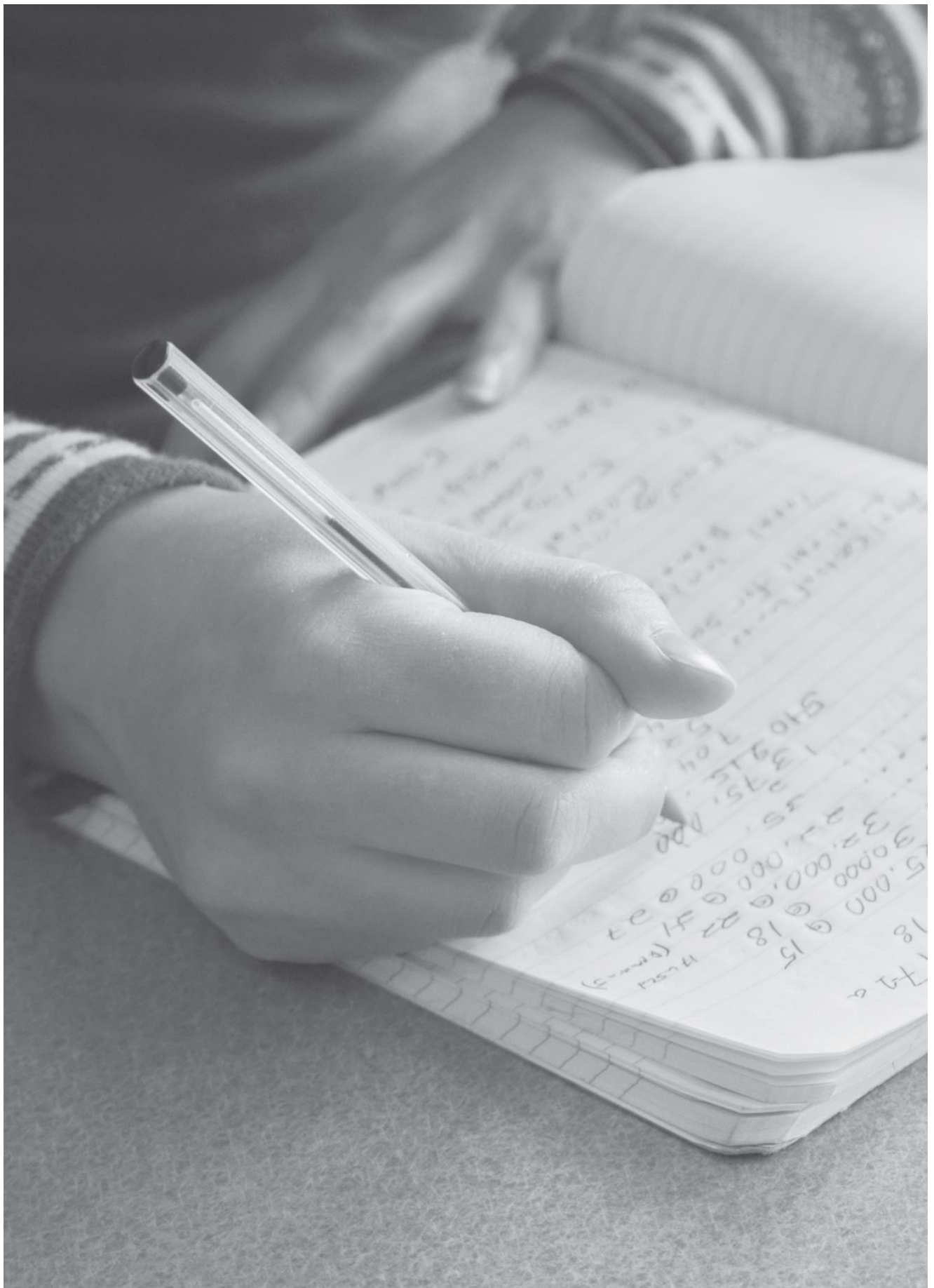
- Can be met with instructor approval.
- Must have a "C" grade or higher.

SEQUENCE OF WRITING COURSES



SEQUENCE OF MATHEMATICS COURSES





ADMISSIONS | DEGREE-SEEKING STUDENTS

Admissions

Admission is required before degree-seeking students can register for classes and before financial aid can be awarded. Book an admissions appointment here:

outlook.office365.com/owa/calendar
CCCAdmissions@clatsopcc.edu/bookings

Clatsop Community College is an open-door, equal-access institution. Consistent with the mission and core themes of the college, Clatsop recruits and admits students with the potential to benefit from our educational offerings.

Generally, to qualify for admission, you must be at least 16 years of age and possess a high school diploma or [GED®](#).

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

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

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

Admissions Deadlines

Admissions, online orientation, and an initial advising session must be complete by the Friday prior to the start of the term. Check the Academic Calendar for dates.

www.clatsopcc.edu/academic-calendar

As a prospective student, you are encouraged to apply to the college as early as possible before the term you plan to attend. First Stop and Office of Admissions will help begin the admissions process, with staff typically available from 9 am to 5 pm throughout the week.

To contact the Admissions Office, please call (503) 338-2417, email us at admissions@clatsopcc.edu, or write to us at Clatsop Community College Admissions, 1651 Lexington Ave, Astoria OR 97103

Nursing Applicants

Enrollment into Clatsop Community College's Associate of Applied Science in Nursing program is limited and students must apply for admission to Nursing separately. If accepted, students will begin nursing classes the following fall term. Applications are evaluated on a point scale that is based on grade point average, course work completed, residency, previous degrees, a proctored essay, and other considerations.

For more information, visit:

www.clatsopcc.edu/nursing

ADMISSIONS | APPLICATIONS

STEP 1: APPLICATION FOR ADMISSIONS

Complete the Online Admissions Application for Certificate and Degree-Seeking students. www.clatsopcc.edu/apply

STEP 2: PLACEMENT OPTIONS

Either complete the ACCUPLACER test, submit high school or college transcripts, or make an appointment for directed self placement.

www.clatsopcc.edu/accuplacer-placement-test

The ACCUPLACER test helps identify preparedness in writing, reading, and math. ACCUPLACER results are used for academic placement purposes, rather than to deny admission to the college. Students are strongly encouraged to access online sample questions / practice tests before taking the ACCUPLACER.

accuplacer.collegeboard.org/student/practice

www.accuplacerpracticetest.com

Students can request an appointment for testing by emailing testingcenter@clatsopcc.edu.

The ACCUPLACER is an untimed test, but people typically complete all three subject areas in 3-4 hours. Students seeking testing accommodations should contact Faith Forster, Student Access Services Coordinator at studentaccess@clatsopcc.edu or (503) 338-2313.

CCC will accept high school and college transcripts and GED results from the last seven years. If classes are older than seven years, it doesn't mean they no longer apply! Take a look at option 3, directed self placement for more information.

Please send transcripts to admissions@clatsopcc.edu. For admissions purposes, unofficial transcripts are fine but if students want to transfer college credit from another institution, they need to request an official transcript.

For those who do not wish to take the Accuplacer, or whose credentials are over seven years old or would prefer to discuss their educational background in person, please schedule an appointment by clicking here or calling the Office of Admissions at (503) 338-2417. Please plan to bring what academic records and test results to the appointment. We're very happy to help students find the classes that will work best for them.

STEP 3: ORIENTATION AND ADVISING

Complete an online Orientation and Advising Meeting. www.clatsopcc.edu/academic-advising

Degree Seeking Students are not required to meet with their advisor before registering each term, however it is highly encouraged that they do so to ensure they are on the right track towards graduation.

New Student? Make an appointment with an Academic Advisor to get started.

Returning Student? Reach out to a Faculty or TRIO Advisor. If students are unsure who their advisor is, they can find their name in the MyCCC Student Portal or on a Canvas class list.

For any other questions, stop by Towler Hall 312 or make an appointment with an Academic Advisor
<https://www.clatsopcc.edu/academic-advising/>
(503) 338-2346, advising@clatsopcc.edu

NON-DEGREE SEEKING STUDENTS

Non-degree seeking students are students wishing to:

- Audit a class and/or take a course without working toward a degree or certificate.
- Take a community education or workforce development course.
- Take a maritime certification course.
- Enroll in college courses while still enrolled in high school.
- Obtain a GED or take an adult basic education course
- Take Lives in Transition course.
- Take an ESL course.

For information about Pre-College & Adult Education, visit: www.clatsopcc.edu/pre-college-adult-education

Community Ed & Workforce Training

The CCC Community Ed Department offers a variety of non-credit classes and workshops that enrich lives and inspire learning in our community. Professional Development courses are provided for students and community members at all stages of their careers.

For more information and to register, visit:
www.clatsopcc.edu/community-professional-education
www.clatsopcc.edu/ceregister

ADMISSIONS | TUITION & FEES

PAYING FOR COLLEGE

www.clatsopcc.edu/paying-for-college

Financial Aid

You must be an eligible student to receive financial aid which includes being officially admitted to Clatsop Community College and be working towards a certificate or degree.

www.clatsopcc.edu/who-is-eligible

The First Stop is located on the first floor of Columbia Hall. Staff members are ready to answer questions and students can use the student computers to access their MyCCC account or print forms needed to complete the financial aid process.

For information about Financial Aid, visit:

www.clatsopcc.edu/financial-aid-scholarships

Tuition & Fees

For information on current and upcoming tuition costs, visit:

www.clatsopcc.edu/tuition-fees

Most classes have additional fees to help cover the cost of materials or supplies that are used in the class. These fees will be listed as part of the class cost in the current schedule.

Residency Policy

Residents of Oregon will be charged the in-state tuition rate.

Residents of Washington, Nevada, California or Idaho will be charged the border state tuition rate.

Students who wish to or need to retain residency in a state other than those listed above will be charged the out-of-state tuition rate. Declaration of intent must be made at the time of registration.

Per Oregon Revised Statute, the following are considered residents:

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

Payment Information

By registering for a class at the College, students have incurred a legal obligation to pay all tuition, fees, and any other charges relating to enrollment, even if charges are being paid by another party. Unless students officially withdraw from courses within the full refund period each term, they are obligated to make payment by the due date published in the relevant college publications.

For payment options, visit: www.clatsopcc.edu/payment-information

Refund Schedule & Drop Dates

Students are liable for payment of classes at the time of registration and will be held liable unless the classes are dropped within the refund period. Check account to verify the current status. Please do not rely on being dropped administratively. Students are responsible for any charges on their account.

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

For more information and the current schedule, visit:

www.clatsopcc.edu/refund-schedule-drop-dates

VA EDUCATIONAL BENEFITS

VETERANS HEALTH CARE AND BENEFITS IMPROVEMENT ACT OF 2016

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

A Veteran using education assistance under Chapter 30 (Montgomery GI Bill®), Chapter 31 (Vocational Rehabilitation and Employment), or Chapter 33 (Post 9/11 GI Bill®), of title

38, United States Code, who lives in Oregon while attending a school located in Oregon (regardless of his/her formal State of residence) and enrolls in the school within three years of discharge or release from a period of active duty service of 90 days or more.

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

Anyone described above while he or she remains continuously enrolled (other than during regularly scheduled breaks between courses, semesters, or terms) at the same school. The person described must have enrolled in the school prior to the expiration of the three year period following discharge or release as described above and must be using educational benefits under Chapter 30, Chapter 31, or Chapter 33, of Title 38, United States Code.

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

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

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

Any covered individual may attend or participate in their course of education during the period beginning on the date on which the individual provides to the school a certificate of eligibility for entitlement to educational assistance under chapter 31 or 33 (a 'certificate of eligibility' can also include a 'statement of benefits' obtained from the Department of Veterans Affairs (VA) website – Ebenefits or a VAF 28-1905 form for chapter 31 authorization purposes) and ending on the earlier of the following dates:

1. The date on which payment from VA is made to the institution.
2. 90 days after the date the institution certified tuition and fees following the receipt of the certificate of eligibility.

CCC will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or the requirement that a covered individual borrow additional funds, on any covered individual because of the individual's inability to meet his or her financial obligations to CCC due to the delayed disbursement of funding from VA under Chapter 31 or 33.

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

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

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 Web site at www.benefits.va.gov/gibill

Eligibility / VA Application: The VA determines eligibility for benefits and a student may have choices to make to determine under which benefit chapter they wish to receive benefits. Students must submit an application to the VA online through benefits.va.gov. Questions about the application may be directed to the VA at

1-888-442-4551. The CCC SCO is not able to determine a student's eligibility for VA benefits.

Program of Study: To be eligible for VA benefits students must be officially admitted to an approved certificate or degree program offered by CCC before the start of the term they request benefits. Only courses applicable toward the certificate or degree program and their prerequisites can be certified for benefit payment. Classes that are not a standard quarter term will be certified to the VA for the actual date span of the individual classes – regardless of term dates.

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

REGISTRATION

REGISTRATION INFORMATION

First Stop

(503) 338-2411

registration@clatsopcc.edu

Prior to the beginning of each term the college produces a class schedule which contains that term's course offerings, location of classes, and tuition and fees.

The class schedule is available in First Stop and online:

www.clatsopcc.edu/schedules-calendars

If you would like assistance in registering please contact Advising, <https://www.clatsopcc.edu/academic-advising/>.

You can also stop by the Advising Center in Towler Hall, room 312 or emailing advising@clatsopcc.edu

Priority registration is given to Veteran and students with 45 or more credits. See our online academic calendar for dates.

DEGREE-SEEKING STUDENTS

If students plan to earn a Clatsop degree or certificate or are receiving financial aid assistance, they must complete the admissions process (See the Admissions section of this catalog for more information about becoming an admitted student.). New students are provided information about college degrees and services, Their transcripts are evaluated for correct placement in courses, and they can schedule an appointment with the Advising Center to register for their first term. Students will also be assigned an academic advisor who will assist them in making informed decisions concerning career planning, selecting appropriate courses, and meeting graduation requirements.

NON-DEGREE SEEKING STUDENTS

If students do not intend to complete a degree or certificate, they are still encouraged to register prior to the beginning of the term. No approval is required except for those courses which require instructor permission or course prerequisites as noted in the college catalog and term schedule. If students are uncertain whether they have the academic skills to be successful in a college course, they may arrange for a reading, writing, or math placement assessment.

HOME SCHOOLED STUDENTS

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

For Clatsop County students with an exemption from their local school district, a College Verification Letter may be obtained through the Northwest Regional ESD office of Home-Schooling Services. To register for classes, the student will need to ensure a current copy of this written exception is on file with the Registrar's Office by submitting documentation to First Stop. Non-

residents must provide equivalent documentation from their local school district. Procedures for requests for exemption from attendance are stated in Oregon Administrative Rule 581 021-0076.

SCHEDULE CHANGES

Adding a Class

Once the term starts the instructors may grant a student permission to add the class. Students are responsible for processing the approved Add form through First Stop. Instructors are available in person during posted office hours, by phone, or via email.

Requests to add a course after the first week must be submitted to the Registrar's Office for review.

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

Administrative Drop

Instructors may administratively drop students who do not attend school during the first week of the term. This procedure applies only to credit classes. A 100% tuition refund will be applied to the accounts of students who have been administratively dropped. Students unable to attend class during the first week should contact the instructor prior to the class meeting if they wish to avoid being administratively dropped from class. This procedure does not relieve students of the responsibility to drop. Students who fail to attend or stop attending classes and fail to drop those classes by the published drop deadline will be responsible for the associated tuition and fees.

Drop

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

REGISTRATION

Attendance

Students must be officially registered for classes to attend them. Attendance may be calculated differently depending on which faculty member teaches the class; faculty can choose if attendance counts toward a student's GPA. It is thus the responsibility of students to understand each class's attendance policy. If students will miss attendance during the first week of their enrolled term, it is their responsibility to notify faculty of their absence and coordinate required work. Without notification to the faculty member, students will be administratively dropped from the course, forfeiting their seat. For students receiving Financial Aid, attendance is counted in their Satisfactory Academic Progress and thus can be used to assess the financial distributions awarded to them.

Withdrawal

Beginning Saturday of the first week of the term through the 8th Friday of fall, winter, and spring (sixth Friday of summer term) students may withdraw. There is no refund for a withdrawal and a grade of 'W' is noted on a transcript. The date the student withdraws is the official last date of attendance.

Incomplete

Incomplete grades are assigned at the discretion of the instructor when non-academic extenuating circumstances prevented a student from completing, but there is a reasonable expectation that the student can successfully complete the course (70% of course work complete). An incomplete is not a substitution for a failing grade. A contract detailing the conditions for completion of work is required and must be completed prior to the end of the term. An incomplete grade will not count towards academic warning but may affect Satisfactory Academic Progress and financial aid eligibility.

The default deadline for incomplete work to be submitted is automatically set to the end of the following term (excluding summer). If the requirements of the contract have been met, the instructor will assign the appropriate grade; if the requirements of the contract are not fulfilled by the deadline, the "I" grade will convert into the standing grade the instructor assigns at the end of the contract.

Audit

An audit allows you students to attend class without responsibility for a grade. Audit carries no credit, doesn't contribute toward full-time status and does not meet full-time status for veterans, social security, financial aid. All other college policies apply including registration, tuition payment, refunds and attendance. If students decide to change their status from audit to credit, they must notify the instructor prior to the end of the term.

If students receive financial aid, they must notify Financial Aid if they change from a credit class to an audit class. Students will be required to pay back funds. Audit classes do not qualify for financial aid.

REPEATING COURSES FOR GPA

Students may repeat a course as many times as they choose. A repeated course for which you students have already received a grade, the later grade will be transcribed and used in computing a grade point average (GPA). Students are allowed two retakes to improve their grade. Subsequent retakes will be transcribed, but may not be used to meet degree requirements. This does not apply to transfer courses.

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

Grades can be accessed online through MyCCC accounts.

REPEATING COURSES FOR CREDIT

Certain courses may be repeated for credit toward degree completion. If a catalog course description does not include information that specifies the course may be repeated, then credits from the course may not be applied towards degree completion.

REGISTRATION

DIRECTORY INFORMATION

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

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

If students do not want information released, they must indicate so in writing by completing a Request for Non-Disclosure of Student Information Form. These forms are available at First Stop.

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

Solomon Amendment Disclosure

The Solomon Amendment requires by law that the college release: student name, address, telephone number, date of birth, educational level, academic major and degrees awarded upon request from recruiters of the branches of the U.S. military. If students request that this information not be released, CCC will not release it to military recruiters or other parties except as noted in this publication or upon written permission from the student.

ACADEMIC INFORMATION | DEGREES

DEGREES

The College offers five degrees:

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

CERTIFICATES

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

The College offers two types of certificates:

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

GRADUATION

To graduate from Clatsop Community College students must:

- Earn a cumulative grade point average of 2.0 for all Clatsop College coursework.
- Complete at least 24 credits for a 2-year degree or 12 credits for a certificate at Clatsop
- Complete all academic requirements under the catalog year listed in the student record.

www.clatsopcc.edu/graduation-commencement

The Graduation Application process is done through students' MyCCC Account.

Upon the college's receipt of a Graduation Application a degree file will be processed and is considered active for a period of one (1) year from the intended date of graduation. After one year, students will need to reapply for graduation.

Graduation Under a Particular Catalog

Catalog requirements are effective for five academic years. Students may graduate under the catalog requirements existing at the time of initial enrollment as long as they successfully complete at least one CCC credit applicable to degree requirements per academic year unless they choose to meet the requirements of a later catalog. A new academic year begins each summer and ends the following spring. No catalog is valid for longer than the spring following the fifth academic year of issuance.

Some programs may impose shorter time limits on accepting credits for degree or certificate requirements. Students enrolled in programs that are accredited or licensed must meet the requirements most recently approved by the accrediting agency or licensing authority. All returning students who have not been enrolled in a college credit course for one academic year must meet new degree requirements.

CCC reviews and updates degree requirements annually. Please note that some of the requirements for graduation may change if studies are interrupted by one or more years and/or if a course of study extends beyond five years. Depending on the college certificate or degree, students may be asked to complete updated requirements.

Student Responsibility: It is the responsibility of the student to know and to observe the requirements of their degree or certificate program and the rules governing academic work.

Although academic advisors will attempt to help students make wise decisions, the final responsibility for meeting the requirements for graduation rests with the student.

CREDIT

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

ACADEMIC INFORMATION | DEGREES

INDEPENDENT STUDY

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

TRANSFER CREDIT

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

WORK EXPERIENCE (COOPERATIVE EDUCATION)

Cooperative Work Experience (CWE) is a program that allows students to earn college credit for working in the community in a career area related to the student's academic goals. Depending on the program, students can earn up to 18 credits on the job.

Students work in positions which allow them to demonstrate the skills they have gained during their academic training. Prior to beginning the work experience, students create individual learning objectives in cooperation with an identified Worksite Supervisor. Student learning objectives are reviewed and approved by the student's Faculty Advisor and/or Program Supervisor. Student learning objectives are consistent with program outcomes and guide student learning during the term.

To learn more, contact Misty Bateman; Cooperative Work Experience Program Manager, (503) 338-2507, mbateman@clatsopcc.edu
www.clatsopcc.edu/cooperative-work-experience

DEGREE PARTNERSHIP PROGRAMS

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

The Degree Partnership program with OSU and PSU offers Clatsop Community College (CCC) students the opportunity to be jointly admitted and eligible to enroll concurrently at OSU or PSU and CCC. Admission applications are required for both schools. Applicants must select the "degree partnership program" when completing the university's admission application and must meet OSU's or PSU's standard admission criteria.

For more information about the OSU/CCC or PSU/CCC Degree Partnership Program contact the First Stop at (503) 338-2411.

www.clatsopcc.edu/articulation-partnership-agreements

Eastern Oregon University (EOU) Bachelor Degree Partnership

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

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

For additional information visit, www.eou.edu/pathways/clatsop-community-college
www.clatsopcc.edu/articulation-partnership-agreements

ACADEMIC INFORMATION | NON-DEGREE

PLUMBING APPRENTICESHIP

Apprenticeships offer the chance to learn a skilled trade through a combination of related classroom instruction and PAID on-the-job training. Apprentices work under the guidance of a journey-level worker on real job sites, gradually earning more responsibilities as they learn more. The more they learn, the more they earn! Apprenticeships are the start of a great, family-wage career students can take pride in.

North Coast Plumbers JATC provides paid Apprenticeship opportunities in the Clatsop and Tillamook Counties

Contact the program Administrator:
Lance Diamond (503) 440-9710, or email
diamondsbytheriver@yahoo.com
www.clatsopcc.edu/study/plumbing-appr

PRE-COLLEGE EDUCATION

www.clatsopcc.edu/pre-college-adult-education

Simultaneous Enrollment

Oregon High School students can take college classes at CCC through the Simultaneous Enrollment Program. It is a great opportunity for high school students to attend classes at Clatsop Community College. Students simultaneously earn credit toward high school graduation requirements and college credits from a regionally accredited community college.

College classes taken as a high school student may or may not count toward a college degree. Oregon University System institutions will accept college credits earned that are 100-level and above. Some private colleges and universities may not accept college credit that was earned while still in high school.

www.clatsopcc.edu/pre-college-adult-education

Running Start

Approved by the Washington State Legislature in 1990, Running Start allows eligible Washington high school juniors and seniors to attend college part-time or full time and receive both high school and college credit. Students do not pay tuition but are responsible for textbooks and material fees. The college courses must meet the high school's graduation requirements and must be courses numbered 100 or above. Washington high school students are eligible to attend Clatsop Community College as Running Start students.

www.clatsopcc.edu/pre-college-adult-education

Talent Search

Talent Search (TS) is a cooperative program between Clatsop Community College and the Astoria, Warrenton, Seaside and Knappa school districts. Our mission is to help students succeed in school and to go on to the further education that's appropriate for their goals. We recognize that parent, school and community involvement are crucial to the success of the program and the students. TS is 100% funded by a federal grant from the U.S. Department of Education.

www.clatsopcc.edu/talent-search

Upward Bound

Upward Bound (UB) provides advising, tutoring, mentoring, cultural enrichment and academic instruction for eligible students in the 9th through 12th grades. Through academic year and Summer Academy activities, UB provides opportunities for participants to succeed in their pre-college performance and ultimately in their higher education pursuits. UB is 100% funded by a federal grant from the U.S. Department of Education.

www.clatsopcc.edu/upward-bound

ADULT EDUCATION

GED/Adult Basic Education

Don't have a high school diploma? Clatsop Community College can assist students in obtaining the equivalent to a high school diploma—the GED®—which will enable students to pursue further education, improve employment status, or fulfill a personal goal.

Clatsop Community College offers Adult Basic Education (ABE) instruction for students who wish to improve their basic reading, writing, and math skills. Students attend these classes for a variety of reasons, to increase workplace skills and fulfill a desire to raise their personal educational level.

Our vision is to serve as an effective resource for the community that responds to the educational and career needs of our community.

The mission of ABE department at CCC is to provide residents of Clatsop County with effective GED preparation, English language acquisition and basic skills learning opportunities. Our goal is to empower students to improve literacy skills, enter college and/or training, and acquire needed knowledge and skills to become successful learners, workers, family and community members.

www.clatsopcc.edu/ged-abe

ACADEMIC INFORMATION | NON-DEGREE

English Language Learners

English as a Second Language (ESL) classes are for adult speakers of other languages who want to learn English or improve their written and spoken English. These classes are offered free of charge. Classes are held via Zoom.

Las clases de inglés como segundo idioma (ESL) son para hablantes adultos de otros idiomas que desean aprender inglés o mejorar su inglés hablado y escrito. Estas clases se ofrecen de forma gratuita. Las clases se imparten a través de Zoom.

www.clatsopcc.edu/esl

Volunteer Literacy

We're here to help local residents gain or improve basic literacy skills. Many of our students are unable to enroll in regular classes because of long work hours, or because they lack transportation and childcare. We find and train volunteers who meet with and instruct adults in English as a Second Language, reading, writing and math.

Trainings are held regularly each term, and tutor orientations are provided on an ongoing, individual basis. We assess all students and provide free study materials. Most volunteers commit to 1-2 hours a week with their student.

www.clatsopcc.edu/volunteer-literacy

Prospective volunteers should call for an appointment to meet the coordinator, receive a short overview of the program, pass a background check, and fill out the Volunteer Service Agreement. Read the Volunteer Tutor Handbook to see if our program sounds like a good fit. Tutors are expected to attend at least 2 two-hour trainings each year.

www.clatsopcc.edu/wp-content/uploads/2019/01/new-volunteer-services-agreement.pdf

www.clatsopcc.edu/wp-content/uploads/2019/01/Revised-Tutor-Handbook-11_13_17.pdf

Life Transitions

The Life Transitions (LIT) program is designed to support students as they complete or continue their education. The LIT program provides a trauma-sensitive environment encouraging students to develop greater self-awareness about their educational goals, enhance self-esteem, overcome personal barriers, and establish clear career directions.

We serve displaced homemakers, dislocated workers, single parents, recovering adults, non-traditional students, returning college students, and women and men; 16 years and older.

www.clatsopcc.edu/life-transitions

Encore Learn

Clatsop Community College is proud to be connected to ENCORE Learn (Exploring New Concepts of Retirement Education), a learning in retirement organization. ENCORE Learn is a member-run organization dedicated to providing quality educational opportunities and adventures for older adults, meeting the intellectual and cultural needs of its members. ENCORE Learn offers a broad spectrum of programs and promotes an environment that fosters personal growth, vitality, and celebrates lifelong learning. ENCORE Learn members pay annual dues to the organization and may attend free any or all of the ENCORE Learn scheduled classes they are interested in (except where special fees may apply).

encorelearn.net

www.clatsopcc.edu/encore

Call (503) 338-2599 or email encorelearn@clatsopcc.edu for additional information.

Bandit Community Fitness

Sign up now to use the state-of-the art Bandit Community Fitness facilities including a breathtaking river-view indoor track, weight room, cardio room, and gym floor! You can also participate in regularly scheduled open court sports. Register and pay with a credit/debit card to get started. Questions? Email:

patriothall@clatsopcc.edu www.clatsopcc.edu/banditfitness

ACADEMIC INFORMATION | GRADING

COURSE NUMBERING / GRADING

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

GRADING POLICIES

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

A - Excellent (4.0)

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

B - Commendable (3.0)

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

C - Satisfactory (2.0)

- Scores average on examinations and does average work on assignments.
- Presents evidence of the subject matter.
- Asks relevant questions.
- Complies with the stated criteria set forth by the instructor.

D - Minimal (1.0)

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

F - Unacceptable (0.0)

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

AU - Audit (N/A)

- Students may register for audit if they do not wish to receive credit for a course.

I - Incomplete (0.0)

- At the request of the student, an instructor may award an incomplete.

NG - No Credit (0.0)

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

P - Pass

- Students may earn credit for a course which is graded on a pass/no credit basis. The "P" grade denotes a level of accomplishment of "C" or higher.
- A limit of no more than 16 credits of "Pass" grades may be applied toward any associate degree awarded by the College. A limit of no more than 8 credits of "Pass" grades may be applied toward any certificate awarded by the College. Credits for courses in which all students are evaluated on a Pass/No Pass grading system are not included in these credit limits.
- Oregon public universities will most likely not accept pass/no pass for transfer.

W - Withdrawal

- A student-initiated withdrawal.

RESOURCES FOR BUSINESS

RESOURCES FOR BUSINESS

www.clatsopcc.edu/resources-for-businesses

Clatsop Economic Development Resources (CEDR)

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

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

CEDR is a paid membership organization, with many private sector members and a Board of Directors from both the Public and Private Sector. CEDR Executive Director is also the Clatsop County Enterprise Zone Manager.

Phone: (503) 338-2402

Email: cedr@clatsopcc.edu

www.clatsopcc.edu/cedr

www.clatsopbusiness.com

Clatsop Small Business Development Center (SBDC)

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

We offer two locations to serve the county (Seaside and Astoria). To request a free business advising appointment or to learn more, call us at (503) 338-2402 or register here.

oregonsbdc.org/centers/clatsop-sbdc

Clatsop WORKS

The Clatsop WORKS Program partners with employers to provide local students, ages 16 and up, with professional, paid summer internships in Clatsop County, with the goals of community building, economic development, promoting local career opportunities, retaining local talent, and providing work-based learning opportunities to local students.

Applications for a summer internship are accepted January – March and students can apply on our website.

For more information, visit our website. For questions, email Misty Bateman at mbateman@clatsopcc.edu or call (503) 338-2507.

www.clatsopworks.com

RESOURCES FOR STUDENTS

STUDENT SUPPORT

A list of helpful links to additional student services can be found here:

www.clatsopcc.edu/student-support

Student Handbook

The Student Handbook pulls together all the information needed as a Clatsop Community College student. The Student Handbook will give students answers to everything from dropping a class to figuring out if the college will be closed for emergency or weather related issues. This is where to look for important information about student conduct, student services and more.

www.clatsopcc.edu/student-handbook

Bookstore

Order Textbooks & eBooks through our Virtual Bookstore.

www.clatsopcc.edu/store

For additional Classroom Supplies & CCC Merchandise, please visit the Campus Store, located at our Lexington Campus in Columbia Hall, Room 101.

Associated Student Government

The Associated Student Government is a student-led organization that advocates for student needs and interests, encourages the growth of extracurricular activities, and upholds the recognition of students' rights and responsibilities.

Serving in an ASG position offers benefits such as leadership experience, resume building, and a 4-credit and above tuition voucher per term depending on position.

www.clatsopcc.edu/asg

Basic Needs

Do not let the lack of food or housing get in the way of success. Contact the Benefits Navigator for assistance applying for SNAP benefits, housing, energy assistance, FAFSA help or other basic needs assistance. We want students to be successful on their educational journey.

www.clatsopcc.edu/basic-needs

Mental Health & Crisis Support

Short-term, confidential, professional counseling, provided free of charge, is available to support students dealing with personal challenges that may affect their college performance.

www.clatsopcc.edu/mental-health-crisis-support

Student Access Services

Student Access Services (SAS) works with students and the campus community to remove barriers at CCC.

Student Access Services may include:

- Accommodations such as: communication aids, additional time on exams, secluded and reduced

distraction testing

- Proctoring of accommodated testing
- Assistive technology loans: amplification devices, recording pens, iPads, white noise machines, adaptive seating
- Audiobooks
- Student advocacy
- Faculty consultation/liaison services
- Resource referrals

www.clatsopcc.edu/student-access-services

TRIO Student Support Services Program

The TRIO SSS program is a Student Support Services project at Clatsop Community College. The TRIO SSS program is a 100% US Department of Education funded TRIO Student Support Services project receiving \$361,970 annually. The goals of TRIO SSS are to increase the retention, graduation and transfer rates of eligible students.

Students must be admitted at degree-seeking at Clatsop Community College with a need for TRIO services and are one or more of the following:

- First-generation college student (neither parent graduated from a 4-year college) or
- Low-income according to federal guidelines or
- Have a documented disability which impacts the ability to participate in the educational experience.

www.clatsopcc.edu/trioss

RESOURCES FOR STUDENTS

STUDENTS' RIGHTS, RESPONSIBILITIES AND CONDUCT

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

STUDENT RIGHT-TO-KNOW INFORMATION

Clatsop Community College information regarding academic programs, student completion/graduation rates, financial assistance, institutional financial support, privacy rights (FERPA), campus security, crime statistics and other Student Right to Know items may be obtained by going to www.clatsopcc.edu/consumer-information

DISCRIMINATION AND HARASSMENT COMPLAINTS AND INVESTIGATIONS

For sexual harassment under Title IX, Complainants must proceed under BP 3433 Prohibition of Sexual Harassment under Title IX, AP 3433 Prohibition of Sexual Harassment under Title IX, and AP 3434 Responding to Harassment Based on Sex under Title IX. For other forms of sexual harassment or gender-based harassment, Complainants should use this procedure.

Complaints: Any person who has suffered harassment, discrimination, or retaliation may file a complaint of harassment, discrimination, or retaliation. Complainants are encouraged to report harassment before it becomes severe or pervasive. The College strives to stop harassment before it rises to the level of a violation of state or federal law.

For complete procedure and additional information, please go to www.clatsopcc.edu/wp-content/uploads/AP-3435-Discrimination-and-Harassment-Complaints.pdf.

STUDENT DISCIPLINE PROCEDURE

These procedures have been established by the College to protect and support its mission as an educational institution, provide for the orderly conduct of its activities, and safeguard the interests of the College community. These disciplinary procedures are considered part of the College's educational process. Hearings or appeals conducted as part of this process are not courts of law and they are not subject to many of the rules of civil or criminal hearings.

For complete information, go to www.clatsopcc.edu/student-discipline-procedure

STUDENT CONSUMER INFORMATION

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

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

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

RESOURCES FOR STUDENTS

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

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

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

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

Campus Safety Report: The Campus Safety Report complies with the requirements of the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act (Clery Act). It explains how the College reports and handles crime and emergency situations on or near College property and provides statistics on reportable offenses. The full report is available at www.clatsopcc.edu/safety-report. We will provide a paper copy of the Campus Safety Report upon request. This disclosure provides statistics on campus safety and crime for the three most recent calendar years, policies and procedures for reporting crimes, information regarding campus security provisions, and crime prevention programs on campus. The annual Campus Safety Report can be picked up at First Stop and reception areas at MERTS, IMTC, and South County Center, or may be requested by phone at 503-338-2422 or email ejacobsen@clatsopcc.edu.

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

In addition, Title IX of the Education Amendments specifically prohibits sex discrimination in federally supported programs. In order to comply with Title IX, this policy prohibits any form of

sexual misconduct including dating violence; domestic violence; stalking; sexual harassment, which is unwelcome conduct of a sexual nature, including unwelcome sexual advances, requests for sexual favors, and other verbal, nonverbal, or physical conduct of a sexual nature; and sexual violence; which is physical sexual acts perpetrated against a person's will or where a person is incapable of giving consent (e.g., due to the student's age or use of drugs or alcohol or an intellectual or other disability that prevents the student from having the capacity to give consent). Sexual violence includes rape, sexual assault, sexual battery, sexual abuse, and sexual coercion.

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

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

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

Report Violations to:

Anita Jensen, Title IX Coordinator

Lower Library, Suite 103 – Lexington Campus

ajensen@clatsopcc.edu 503-338-2450

RESOURCES FOR STUDENTS

DISCLOSURE STATEMENT

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

OCCURS or the college may provide a social security number to the following agencies or match it with records from the following systems: State and private universities, colleges, and vocational schools, to find out how many community college students go on with their education and to find out whether community college courses are a good basis for further education; The Oregon Employment Department, which gathers information, including employment and earnings, to help state and local agencies plan education and training services to help Oregon citizens get the best jobs available; The Oregon Department of Education, to provide reports to local, state and federal governments. The information is used to learn about education, training, and job market trends for planning, research, and program improvement; The Oregon Department of Revenue and collection agencies only for purposes of processing debts and only if credit is extended to students by the college; The American College Testing Service, if taking the Next Gen ACCUPLACER Placement test, for educational research purposes; and area secondary schools for assessment of outcomes for high school graduates.

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

COLLEGE POLICY ON DRUG & ALCOHOL USE

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

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

Sanctions which may be imposed for violations of College policy include: Expulsion (removal of privilege to attend CCC); suspension for a definite period of time; disciplinary probation with specific terms for continued enrollment; and suspension or expulsion for violation of those terms; or a written reprimand. Parents of students under age 18 will be notified of any violations

of the College's alcohol or drug policy. As prohibited by Federal law, marijuana use or possession on campus is prohibited on all college campuses.

ASSISTANCE WITH SUBSTANCE ABUSE

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



FULL-TIME FACULTY

ADLER, CAROLYN

B.S.N. (Nursing), St. Joseph's College; M.S.N. (Nursing), Walden University.

ANTILLA, WILLIAM (BILL)

A.S. Maritime Science, Clatsop Community College; Licensing through USCG; Master Oceans/Master Towing Ocean RADAR, ARPA, ECDIS, GMDSS, Leadership & Managerial, BRM, BT, Basic & Advanced Fire. Over forty years of experience in the Maritime Industry.

BEVERIDGE, RICHARD

B.S. Mathematics, University of Maine; B.A. French, University of Virginia; M.A. Mathematics, University of Maine; M.Ed., Oklahoma City University.

BROWN, JULIE

B.S. English, Oregon State University; M.F.A. Creative Writing, University of Montana; Ph.D. English, University of Wisconsin, Milwaukee.

BULLINGER, SHAWNA

A.S.N. (Nursing), University of South Dakota; B.S.N. (Nursing), Grand Canyon University; M.S.N. (Nursing), Oregon Health Science University.

BUTTS, DALE

Licensing through USCG; Twenty-two plus years in the Maritime Industry.

CARPENTER, JENNIFER

A.A. Foods and Nutrition, Portland Community College, B.S.N., University of Portland, MBA/MSN, University of Phoenix.

COOMAR, ARUNIMA

M.S. Chemistry, Indian Institute of Technology; M.S. Chemistry, University of California, Los Angeles; Ph.D. Chemistry, University of Arizona.

EATON, KEVIN

Welding Certification, Columbia Basin College; Twenty-five plus years of experience in the metal trades industry.

FULTON, JESSE

Twenty-five years of experience in the metal trades industry; AWS certifications.

GUIDI, DALE (DEAC)

B.A. Speech Communications, Montana State University; M.A. Speech Communications, Idaho State University.

KEEFE, PAT

B.S. Physics, Baker University; M.S. Physics, Portland State University.

KOTSON, CHRISTINA (TINA)

A.A. Nursing, Clatsop Community College; M.S. Nursing; B.A. Journalism, Gonzaga University; M.B.A., Gonzaga University.

LACKNER, TIMOTHY (TJ)

B.A. Speech Communication, Moorhead State University; B.S. Mathematics, Dickinson State University; M.S. Mathematics, Washington State University.

LEE, MICHAEL

B.S. Marine Transportation, California Maritime Academy, USCG licensed Master Mariner.

LOONEY, DEVON

A.S.N. (Nursing), Joyce University; B.S.N. (Nursing), Utah Tech University.

MABRY, JULIA

A.A.S. EMT-Paramedic, Oregon Health Science University/Oregon Institute of Technology; B.A. Field Ecology/Outdoor Education, Prescott College; M.S. Fisheries, University of Alaska, M.P.H. San Jose State University.

MOHA, CARLA

B.A. Accounting, Western State College of Colorado; M.B.A., Regis University.

NASSTROM, KARSON

B.S. Nursing, Humboldt State University; M.S. Nursing, Long Beach State University.

NOLAN, THAD

A.A.S. Electronic Engineering, Clatsop Community College; Twenty-five plus years in the Automotive Industry.

O'CONNOR, KAMA

B.S. Hospitality Management, Northern Arizona University; M.F.A. Creative Writing, Northern Arizona University.

PETERSEN, CELESTE

A.A. Liberal Arts, Clatsop Community College; B.S. Elementary Education, Western Oregon State College; M.A. Mathematics Education, Western Governors University.

ROJAS-GALVÁN, FERNANDO

B.A. Interdisciplinary Studies, University of Portland; B.A. Secondary Education, College of Santa Fe; M.A. Spanish, University of New Mexico.

SHAUCK, KRISTIN

B.F.A., Baylor University; M.F.A. Texas A&M-Commerce.

TUMBARELLO, HOLLY

B.S.N. (Nursing), Southern Illinois University.

WARWICK, NICHOLE

B.S. Biology, Idaho State University; M.S. Biology, Idaho State University.

WEAVER, DEVON

A.A.S. Mortuary Science, Cincinnati College of Mortuary Science; A.A.S. Nursing, Clatsop Community College; B.A. Psychology and German, Bowling Green State University; B.S.N., Walden University; M.S.N., Walden University.

ADMINISTRATION | SERVICE & SUPERVISORY STAFF

ALLISON, JOSH**SBDC Advisor/Education Program & Community Ed Coordinator**

Center for Executive Professional Education, Portland State University.

ANK, TOM**Director of Computer Services and Information Security**

Highly skilled IT professional with over 25 years of experience designing, implementing, and maintaining complex network, server, and storage systems across multi-vendor environments. Proficient in cybersecurity, virtualization, disaster recovery, and enterprise applications, with a strong focus on reliability, scalability, and information security best practices.

BATEMAN, MISTY**Programs Manager, Clatsop Works & Cooperative Work Experience**

B.A., Anthropology and History, University of Wyoming; M.A.Ed., Education, Willamette University.

CLARK, DAN**Director of Facilities, and the Director of Safety and Security**

Experienced U.S. Coast Guard Engineer Petty Officer with over two decades of service specializing in maintenance, safety compliance, and operational readiness across marine, mechanical, and facility systems. Expert in managing complex maintenance programs, ensuring OSHA, EPA, and Department of Ecology compliance, and leading large teams and budgets to maintain peak safety and performance standards.

FORD, SHAUN**TRIO Academic Success Coordinator**

B.S., Mathematics, Western Governors University; M.Ed., Learning and Technology, Western Governors University.

FORSTER, FAITH**Student Access Services (SAS) Coordinator and Testing Center Administrator**

B.A., Institutional Studies and Second Language Acquisition, University of Oregon; Teaching Certificate in Second Language Acquisition, University of Oregon.

FREEMAN, MEYER**SBDC Lead Advisor**

B.S., Sport Management, University of Massachusetts Amherst; M.B.A., Willamette University.

GELEYNSE, SARAH**Interim Dean of Students**

A.A.O.T., Clatsop Community College; B.S., Psychology, University of Oregon.

GARNER, VANESSA**Director, Adult Education**

B.S., Biology, Valparaiso University; M.S., Botany and Plant Pathology, Purdue University; Certificate, Ensuring Equitable Success in Higher Education, Harvard Graduate School of Education.

GREEN, FELICITY**Executive Coordinator to the President and Board of Education**

B.A., Studio Art and Art History, College of Charleston.

GUEST, LACEY**College and Career Advisor, TRIO Pre-College Programs**

B.A., History, Christopher Newport University; M.A., History, University of Oregon; M.A., School Counseling, Oregon State University.

HOGUE, JARROD**President**

B.S., Criminal Justice, Western Oregon University; M.S., Education, Northern State University.

JACKSON, MARY**Career and Technical Education Grant Director**

B.S., Criminal Justice, Seattle University, 1998; M.S., Criminal Justice, Northern Arizona University, 2001; at Clatsop Community College since 2017.

JENSEN, ANITA**Director, Human Resources / Title IX Coordinator**

B.S., Environmental Health, Western Carolina University; M.M., Management, University of Phoenix; Board Certified Safety Professional; at Clatsop Community College since 2024.

KEEFE, HELEN**Patriot Hall Coordinator of Events and Activities**

A.S., Business Management, Clatsop Community College; at Clatsop Community College since 2018.

KOTSON, CHRISTINA M.**Interim Associate Vice President of Nursing, Allied Health, and Public Safety**

A.A.S., Nursing, Clatsop Community College; Registered Nurse (Oregon); B.A., Journalism/Communications, Gonzaga University; M.B.A., Gonzaga University; M.S.N., Nursing Education, Excelsior University.

KOVATCH, JULIE**Director, Communications and Marketing**

B.S., Education, Montana State University Billings, 2000; M.S., Public Relations, Montana State University Billings, 2009; at Clatsop Community College since 2016.

ADMINISTRATION | SERVICE & SUPERVISORY STAFF

LEAHY, KEVIN

Executive Director, CEDR / Associate Vice President for Business, Community, and Workforce Development

B.S., Business Administration, Oregon State University; at Clatsop Community College since 2011.

LINDSTROM, MISTY

Onboarding Specialist

B.S., Elementary Education, Grand Canyon University; M.S. Special Education; M.S., Leadership with emphasis in Emergency Management, Grand Canyon University.

MAGNUSSEN, AMY

Director, TRIO Pre-College Programs

B.A., Art History, Northern Illinois University, 1994; M.S.W., Social Work, Portland State University, 2018; C.S.W.A., Oregon Board of Licensed Social Workers, 2019; at Clatsop Community College since 2017.

MAHAN, CHRIS

TRIO Pre-College Career Advisor

B.A., Psychology, Murray State University; B.A. Sociology, Murray State University.

MCCLURE, DAN

Director, Library

B.S., Journalism, University of Oregon, 2001; M.S., Library and Information Systems, University of North Carolina, 2005; at Clatsop Community College since 2017.

MENDEZ, CLAUDIA

Bilingual Transitions Specialist

A.A.O.T., Clatsop Community College; B.S., Interdisciplinary Bilingual Teaching, Western Oregon University.

MORGAN, ANDREW

TRIO Academic Success Coordinator

B.A., English, Montclair State University; M.S., Curriculum and Instruction, Western Governors University.

MORTIMER, ABIGAIL

Tutor Coordinator / Instructional Assistant

B.A., Religious Studies (Minor in Classics), University of California, Santa Barbara; A.A.S., Historic Preservation, Clatsop Community College; M.L.I.S., Library and Information Science, University of California, Los Angeles.

PALENSKE, BEN

Academic Success Coordinator

B.S., Psychology, Western Oregon University, 2004; at Clatsop Community College since 2018.

PURCELL, EILEEN (PERCY)

Outreach Literacy Tutor Coordinator

B.A. and M.A., History; M.L.S., State University of New York; at Clatsop Community College since 2004.

RIEHL, CHRISTINE

Director, TRIO Student Support Services

B.S., Biochemistry/Biophysics, Oregon State University; M.S., Human Development, Counseling, and Family Studies, University of Rhode Island; at Clatsop Community College since 2004.

ROSS, KEN

Systems Administrator

A.A.S., Computer Programming, Iowa Western Community College; at Clatsop Community College since 2014.

SMITH, BRIANA

Benefits Navigator and Foundation Specialist

B.S., Cultural Anthropology (Minor in Communications), University of Oregon.

SOLAR, LAYLA

Assistant Director of Financial Aid

B.S., Human Development and Family Science, Oregon State University.

TOYAS, TEENA

Provost

B.S., Health and Physical Education, Austin Peay State University; M.A., Health, Physical Education, and Recreation, Murray State University; at Clatsop Community College full-time since 2001.

WHITE, KASEY

Director, Outreach and Admissions

B.A., Sociology and Women's Studies, Colorado State University; at Clatsop Community College since 2018.

WILLIS, TINA

STEP Program Manager

B.A., Political Science, University of Texas at San Antonio; M.S.A., Public Administration and Business Administration, St. Michael's College Vermont.

WILSON, IAN

Interim Director of Institutional Research and Data Architecture

B.S., Physics, Oregon State University; M.S., Applied and Computational Mathematics, University of Washington.

VAN ELSWYK, BETH

Foundation Director

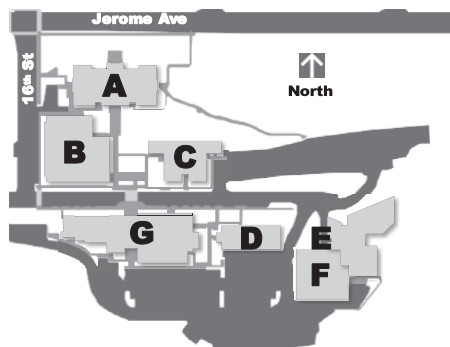
B.A., Mass Communication / Journalism, Mansfield University.

CAMPUS INFORMATION

Admissions (503)338-2417 or 1 (855) 252-8767, ext. 2411 (toll free)	
Advising	(503) 338-2474
Alliance for Equity in Education.....	(503) 338-2356
Apprenticeship.....	(503) 338-2352
Associated Student Government.....	(503) 338-2527
Bookstore.....	(503) 338-2447
Cafeteria	(503) 338-2338
CEDR	(503) 338-2342
Clatsop WORKS.....	(503) 338-2507
Community Education	(503) 338-2408
Communications & Marketing.....	(503) 338-2429
Computer Services.....	(503) 338-2413
Counseling	(503) 338-2409
Dual Credit/Coastal Commitment	(503) 338-2378
Educational Talent Search.....	(503) 338-2370
Finance & Operations	(503) 338-2422
Financial Aid.....	(503) 338-2414
Fire Science.....	(503) 338-7650
First Stop & Information Center.....	(503) 338-2411
Foundation.....	(503) 338-2306
G.E.D. Program.....	(503) 338-2347
G.E.D. Testing.....	(503) 338-2481
Human Resources.....	(503) 338-2406
Industrial Manufacturing Tech. Center (IMTC).....	(503) 338-7670
Instruction, Office of.....	(503) 338-2440

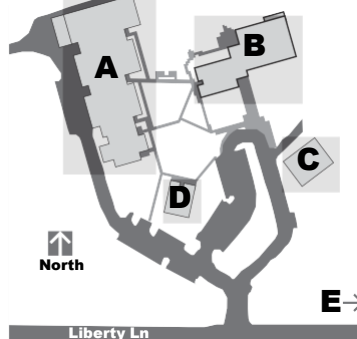
Library	(503) 338-2462
Literacy Coordinator.....	(503) 338-2557
Lives in Transition.....	(503) 338-2377
Maritime Science Center	(503) 325-7962
Math Assistance Center (MAC).....	(503) 338-2526
Patriot Hall.....	(503) 338-2516
Payroll	(503) 338-2439
Phi Theta Kappa	(503) 338-2319
President's Office.....	(503) 338-2425
Publications & Web Developer.....	(503) 338-2513
Records/Registration	(503) 338-2411
Scholarships.....	(503) 338-2567
Small Business Management	(503) 338-2343
South County Campus/SBDC.....	(503) 338-2402
Student Accounts.....	(503) 338-2330
Student Access Services	(503) 338-2305
Student Services Center.....	(503) 338-2411 or (503) 338-2371
Testing Center	(503) 338-2426
Title IX Coordinator	(503) 338-2450
TRIO SSS	(503) 338-2346
Tutoring Lab.....	(503) 338-2455
Upward Bound	(503) 338-2370
Veteran's Services	(503) 338-2322
Workforce Training.....	(503) 338-2566
Writing Center.....	(503) 338-2519

Lexington Campus (Astoria)



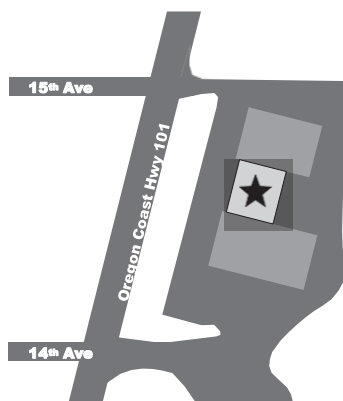
- A: Towler Hall
- B: Patriot Hall
- C: Dora Badollet Library
- D: Services Center
- E: Art Building
- F: Alder Hall
- G: Columbia Hall

MERTS Campus (Astoria)



- A: Industrial & Manufacturing Technology Center
- B: Maritime Science Center
- C: Fire School
- D: Living Machine®
- E: Maritime Vessel

South County Campus / CEDR / SBDC (Seaside)



CAMPUS LOCATIONS

Lexington Campus:

Clatsop Community College
1651 Lexington Avenue
Astoria, OR 97103
(503) 338-2400
Fax: (503) 325-5738
www.clatsopcc.edu
Admissions: (503) 338-2411
admissions@clatsopcc.edu

South County Campus:

Clatsop Community College
1455 N. Roosevelt (Hwy. 101)
Seaside, OR 97138

MERTS Campus:

Maritime Science Department
6550 Liberty Lane
Astoria, OR 97103

Fire School
6562 Liberty Lane
Astoria, OR 97103

Industrial & Manufacturing Technology Center
6540 Liberty Lane
Astoria, OR 97103

Living Machine®
6540 Liberty Lane
Astoria, OR 97103



**Clatsop
Community
College**



Clatsop Community College Admissions Office 1651
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