

Schedule



Winter
2026

Winter term classes begin January 5 • www.clackamas.edu • Go Far, Close to Home.

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3 Convenient Campuses

Oregon City

19600 Molalla Ave.
Oregon City, OR 97045

Wilsonville

29353 SW Town Center Loop E.
Wilsonville, OR 97070

Harmony

7738 SE Harmony Road
Milwaukie, OR 97222

Non-Discrimination

Clackamas Community College does not discriminate on the basis of race, color, religion, gender, sexual orientation, marital status, age, national origin/ancestry, disability, family relationship or any other protected status in accordance with applicable law. The college's commitment to nondiscrimination applies to curriculum activity and all aspects of operation of the college.

IMPORTANT DATES TO REMEMBER



CLASS START/END DATES + FINANCIAL DEADLINES *	WINTER 2026	SPRING TERM 2026	SUMMER TERM 2026
Financial aid: All required CCC financial aid documentation due to ensure funding for term	Sept. 29	Jan. 5	March 30
Registration begins	Nov. 17	Feb. 23	May 11
Classes begin	Jan. 5	March 30	June 22
Last day to add classes without instructor consent	Instructor consent required once course begins		
Last day to drop a class with a refund	Jan. 18	April 12	July 5
Last day to drop classes and receive a "W" automatically	Feb. 27	May 22	August 14
Last day to submit petition for graduation	Feb. 13	May 8	July 31
Last day to change grading option	March 13	June 5	August 28
Account balance due: \$100 non-payment fee applied if not paid	Feb. 13	May 8	July 31
Final week	March 16-21	June 8-13	see course syllabus
Last day of term	March 21	June 13	Sept. 5
Commencement: GED & Adult High School Diploma / College Certificate and Degree	Friday evening, June 12, 2026		

* Deadlines are the end of the business day unless otherwise noted. All calendar dates are subject to change without prior notice.

HOLIDAYS AND CAMPUS CLOSURES

WINTER TERM: Jan. 1 New Years Day, Jan. 19 MLK Jr. Day, Feb. 16 Presidents Day
SPRING TERM: May 25 Memorial Day
SUMMER TERM: June 19 Juneteenth, July 2 Independence Day Observation

FINAL EXAM SCHEDULE

Refer to your class syllabus or check with your instructor for the final week schedule. The final week schedule will be posted in your myClackamas account as soon as it is available.

CLACKAMAS IN YOUR COMMUNITY

Credit and non-credit courses offered at Clackamas Community College sites near you Winter 2026

Harmony Community Campus

Complete course information available in **Credit Course Listings**. Indicated with: **HAR**

Biology

BI-112	GENERAL BIOLOGY FOR HEALTH SCIENCES	4 CREDITS
BI-112L	GENERAL BIOLOGY FOR HEALTH SCIENCES LAB	0 CREDIT
BI-120	INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY	4 CREDITS
BI-120L	INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY LAB	0 CREDIT
BI-232	HUMAN ANATOMY & PHYSIOLOGY II	4 CREDITS
BI-232L	HUMAN ANATOMY & PHYSIOLOGY II LAB	0 CREDIT

Chemistry

CH-112	CHEMISTRY FOR HEALTH SCIENCES	4 CREDITS
CH-112L	CHEMISTRY FOR HEALTH SCIENCES LAB	0 CREDIT

Communication Studies

COMM-111Z	PUBLIC SPEAKING	4 CREDITS
COMM-218Z	INTERPERSONAL COMMUNICATION	4 CREDITS

Criminal Justice

CJA-101	CRIMINOLOGY	4 CREDITS
CJA-120	INTRODUCTION TO COURTS	3 CREDITS
CJA-122	CRIMINAL LAW	4 CREDITS
CJA-134	CORRECTIONAL INSTITUTIONS	3 CREDITS
CJA-170	CAREERS IN CRIMINAL JUSTICE	3 CREDITS
CJA-201	JUVENILE DELINQUENCY	4 CREDITS
CJA-203	CRISIS INTERVENTION	3 CREDITS
CJA-211	CRIMINAL INVESTIGATION II	3 CREDITS
CJA-215	SEXUAL ABUSE AND HUMAN TRAFFICKING	3 CREDITS
CJA-222	PROCEDURAL LAW	3 CREDITS
CJA-280	CRIMINAL JUSTICE/CORRECTIONS/CWE	2-6 CREDITS

Dental Assistant

DA-102	DENTAL RADIOLOGY II	2 CREDITS
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DA-102L	DENTAL RADIOLOGY II LAB	1 CREDIT
DA-105	CLINICAL PROCEDURES II	2 CREDITS
DA-105L	CLINICAL PROCEDURES II LAB	1 CREDIT
DA-108	DENTAL MATERIALS II	2 CREDITS
DA-108L	DENTAL MATERIALS II LAB	1 CREDIT
DA-120	CLINICAL PRACTICUM II	5 CREDITS

Emergency Medical Technology

EMT-101	EMERGENCY MEDICAL TECHNICIAN PART I	6 CREDITS
EMT-102	EMERGENCY MEDICAL TECHNICIAN PART II	6 CREDITS
EMT-105	INTRODUCTION TO EMERGENCY MEDICAL SERVICES	3 CREDITS

English for Speakers of Other Languages

ESOL-012	BEGINNING ESOL	0 CREDIT
ESOL-015	BEGINNING READING, WRITING, AND GRAMMAR	0 CREDIT
ESOL-020	UPPER BEGINNING GRAMMAR	0 CREDIT
ESOL-022	UPPER BEGINNING CONVERSATION	0 CREDIT
ESOL-024	UPPER BEGINNING READING & WRITING	0 CREDIT
ESOL-030	INTERMEDIATE GRAMMAR A	0 CREDIT
ESOL-031	INTERMEDIATE GRAMMAR B	0 CREDIT
ESOL-033	INTERMEDIATE CONVERSATION 2	0 CREDIT
ESOL-034	INTERMEDIATE READING & WRITING	0 CREDIT
ESOL-043	UPPER INTERMEDIATE CONVERSATION 2	0 CREDIT
ESOL-044	UPPER INTERMEDIATE READING & WRITING	0 CREDIT
ESOL-046	EDITING FOR BETTER WRITING	0 CREDIT
ESOL-051	ADVANCED GRAMMAR B	0 CREDIT
ESOL-053	ADVANCED COMMUNICATION SKILLS 2	0 CREDIT
ESOL-082	ASSESS/EVALUATE NEW STUDENTS	0 CREDIT
ESOL-083	EDUCATIONAL PLANNING FOR RETURNING STUDENTS	0 CREDIT

Environmental Science

ESR-172	INTRODUCTION TO CLIMATE CHANGE	4 CREDITS
ESR-172L	INTRODUCTION TO CLIMATE CHANGE LAB	0 CREDIT

Food & Nutrition

FN-110	PERSONAL NUTRITION	3 CREDITS
FN-225	NUTRITION	4 CREDITS

General Development Education (GED)

GED-011	GED IN ESPAÑOL	0 CREDIT
GED-015	GED PREPARATION	0 CREDIT
GED-049	LATINO GED & LIFE SKILLS	0 CREDIT

Geology

G-102	GENERAL GEOLOGY	4 CREDITS
G-102L	GENERAL GEOLOGY LAB	0 CREDIT
G-202	GENERAL GEOLOGY	4 CREDITS
G-202L	GENERAL GEOLOGY LAB	0 CREDIT

Gerontology

GRN-280	GERONTOLOGY/CWE	2-6 CREDITS (VAR)
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Health

HE-163	BODY & DRUGS I: INTRODUCTION TO ABUSE & ADDICTION	3 CREDITS
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Health Professions

HP-100	HEALTHCARE PROVIDER BLS/CPR, FIRST AID/BLOODBORNE PATHOGENS	1 CREDIT
HP-110	MEDICAL TERMINOLOGY	4 CREDITS
HP-130	COMMUNICATIONS AND ETHICAL PRACTICES IN HEALTHCARE SETTINGS	2 CREDITS

High School Diploma (AHSD)

ASE-042	JOB SKILLS COMPETENCY LAB	0.5 CREDIT
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Mathematics

MTH-060	ALGEBRA I	4 CREDITS
MTH-065	ALGEBRA II	4 CREDITS
MTH-111Z	PRECALCULUS I: FUNCTIONS	4 CREDITS

Medical Assistant

MA-156	PHLEBOTOMY I	1 CREDIT
MA-156L	PHLEBOTOMY I LAB	1 CREDIT
MA-160	INSURANCE & HEALTH INFORMATION MANAGEMENT	3 CREDITS
MA-162	EXAMINATION ROOM TECHNIQUES II	3 CREDITS
MA-162L	EXAMINATION ROOM TECHNIQUES LAB II	1 CREDIT
MA-164	CLINICAL LAB PROCEDURES I	1 CREDIT
MA-164L	CLINICAL LAB PROCEDURES I LAB	1 CREDIT
MA-168	SEMINAR II	2 CREDITS

Medical Billing and Coding

MBC-115	INSURANCE BILLING AND REIMBURSEMENT I	4 CREDITS
MBC-120	INTRODUCTION TO MEDICAL CODING	3 CREDITS
MBC-135	LAW AND ETHICS FOR HEALTHCARE PROFESSIONS	3 CREDITS

Nursing

NRS-112	FOUNDATIONS OF NURSING IN ACUTE CARE I	3 CREDITS
NRS-112C	FOUNDATIONS OF NURSING IN ACUTE CARE I CLINICAL	3 CREDITS

NRS-221	CHRONIC ILLNESS II AND END OF LIFE	4 CREDITS
NRS-221C	CHRONIC ILLNESS II AND END OF LIFE CLINICAL	5 CREDITS
NRS-231	CLINICAL PHARMACOLOGY II	3 CREDITS
NRS-232	PATHOPHYSIOLOGICAL PROCESSES I	3 CREDITS
NUR-100	NURSING ASSISTANT I	6.5 CREDITS
NUR-100C	NURSING ASSISTANT I CLINICAL	0 CREDIT

Phlebotomy

PHB-125	PROFESSIONALISM IN HEALTHCARE	1 CREDIT
PHB-130	PHLEBOTOMY PRACTICUM	5 CREDITS

Psychology

PSY-101	HUMAN RELATIONS	3 CREDITS
PSY-215	INTRODUCTION TO DEVELOPMENTAL PSYCHOLOGY	4 CREDITS

Small Business Development Center

SBM-010	REAL ESTATE BROKER LICENSE	0 CREDIT
SBM-011	PROPERTY MANAGEMENT PRE-LICENSE	0 CREDIT
SBM-020	LAUNCH & GROW: SMALL BUSINESS BASICS	0 CREDIT
SBM-024A	EXIT SMART: RETIRING WITH SELLING & SUCCESSION STRATEGIES	0 CREDIT
SBM-028A	CONTRACTOR ESSENTIALS MANAGEMENT - PART 1	0 CREDIT
SBM-028B	CONTRACTOR ESSENTIAL MANAGEMENT - PART 2	0 CREDIT
SBM-029A	NEXT LEVEL CONTRACTING: ADVANCED BUSINESS STRATEGIES FOR CONTRACTORS - PART 1	0 CREDIT
SBM-029B	NEXT LEVEL CONTRACTING: ADVANCED BUSINESS STRATEGIES FOR CONTRACTORS - PART 2	0 CREDIT
SBM-029C	NEXT LEVEL CONTRACTING: ADVANCED BUSINESS STRATEGIES FOR CONTRACTORS - PART 3	0 CREDIT
SBM-030	PROFITABILITY & RESILIENCY SMALL BUSINESS MANAGEMENT	0 CREDIT
SBM-031A	SCOREBOARDS IN BUSINESS - PART 1	0 CREDIT
SBM-031B	SCOREBOARDS IN BUSINESS - PART 2	0 CREDIT
SBM-031C	SCOREBOARDS IN BUSINESS - PART 3	0 CREDIT
XSBM-0003	GOING INTO BUSINESS	0 CREDIT
XSBM-0005	GOING OUT OF BUSINESS	0 CREDIT
XSBM-0010	PREPARING FOR THE CCB EXAM	0 CREDIT
XSBM-0011	QUICKBOOKS PRO: PART I	0 CREDIT
XSBM-0012	QUICKBOOKS PRO: PART II	0 CREDIT

XSBM-0024	CONSTRUCTION BUSINESS FUNDAMENTALS: ACCURATE ESTIMATING & FINANCIAL RECORDS	0 CREDIT
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Writing

WR-121Z	COMPOSITION I	4 CREDITS
WR-122Z	COMPOSITION II	4 CREDITS
WR-227Z	TECHNICAL WRITING	4 CREDITS
WRD-098	INTRODUCTORY COLLEGE READING & WRITING 2	4 CREDITS

Course No	Course Title, Credits					
Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU) Tuition	Fee	Time Crs. Fee	Total	

COURSE LISTING

Credit and non-credit Courses offered Winter 2026

Adult Basic Education (ABE)

ABE-012 ADULT BASIC EDUCATION, 0 CREDIT

Instruction offered to improve reading, writing, and math skills in order to transition to college classes, GED preparatory classes, or career related goal. Students must be 16 years or older. Required: Student Petition.

oc	ABE-012-07	342542 MTWTH		10-11:50 AM		
	D. GREEN	\$0.00	\$0.00	\$55.00	\$55.00	
	Required: Student Petition.					

Anthropology

ANT-101 BIOLOGICAL ANTHROPOLOGY, 4 CREDITS

Introduces the study of humans as biocultural beings in the context of modern genetics, evolutionary theory, primate taxonomy, anatomy and behavior, fossil hominines, and the role of the physical anthropologist in forensic science.

Recommended Prerequisites: WRD-090 or placement in WRD-098

OC NCT	ANT-101-01	342545 TTH		10-11:50 AM		
	K. BACA	\$520.00	\$52.00	\$0.00	\$572.00	
ONL NCT	ANT-101-02	342549				
	K. BACA	\$520.00	\$52.00	\$0.00	\$572.00	

ANT-103 CULTURAL ANTHROPOLOGY, 4 CREDITS

Introduces the diversity of contemporary human cultures and the ways anthropologists study and compare them in an effort to understand how different societies organize their lives and make sense of the world around them. Explores the interrelationships among the various elements of culture.

Recommended Prerequisites: WRD-090 or placement in WRD-098

OC NCT	ANT-103-01	342553 TTH		1-2:50 PM		
	K. BACA	\$520.00	\$52.00	\$0.00	\$572.00	

ANT-280 ANTHROPOLOGY/CWE, 2-6 CREDITS (VAR)

Cooperative work experience. Provides students with on-the-job work experience in the field of anthropology (may involve physical anthropology, and/or archaeology, and/or cultural anthropology). Required: Student Petition.

Corequisites: CWE-281

Recommended Prerequisites: WRD-090 or placement in WRD-098

OC NCT	ANT-280-01	342557				
	K. BACA	\$780.00	\$78.00	\$45.00	\$903.00V	
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

Art

ART-100A JEWELRY MAKING TECHNIQUES, 1 CREDIT

Various topics will introduce techniques in: construction, forming, fabrication, soldering, inlay, etching, mold making, casting, stone setting, chain making and silversmithing. Students will be encouraged to create and design their own jewelry with both meaning and function. Historical and contemporary issues surrounding jewelry and body adornment will be presented and discussed during the course. May be repeated for up to 3 credits.

oc	ART-100A-01	347494 TTH		1-4:20 PM		
	J. IJIMA	\$130.00	\$13.00	\$125.00	\$268.00	
	Meets: 1/6-1/22. Focus: Casting.					
oc	ART-100A-02	347495 TTH		1-4:20 PM		
	J. IJIMA	\$130.00	\$13.00	\$125.00	\$268.00	
	Meets: 2/10-2/26. Focus: Ring Making.					

ART-101 ART APPRECIATION, 3 CREDITS

Discover the fundamentals of thinking about and creating art through readings, class discussions, and gallery and museum (virtual) tours. This course will examine art, architecture, and design from the ancient period through the contemporary moment. The course also considers connections and relationships in art-making, history, and culture.

ONL LCT	ART-101-01	342684				
	C. SIEGFRIED	\$390.00	\$39.00	\$6.00	\$435.00	

ART-115 BASIC DESIGN: 2-DIMENSIONAL DESIGN, 4 CREDITS

This course acquaints students with the elements and principles of design and basic color theory. Students develop compositional and analytical skills through projects and critiques. Students examine historical and contemporary issues and ideas related to visual composition and design across multiple fields of expression.

OC LCT	ART-115-01	342687 MW		1-3:50 PM		
	C. SIEGFRIED	\$520.00	\$52.00	\$80.00	\$652.00	
OC LCT	ART-115-02	342690 TTH		1-3:50 PM		
	R. KALMAN	\$520.00	\$52.00	\$80.00	\$652.00	

ART-119 TIME-BASED ART, 4 CREDITS

This course introduces students to working with time as a medium, concept, and process. Introduces the strategies, practices, and history of the time-based art including storytelling, performance, body art, animation, video, and sound. Students develop abilities in producing, documenting, and presenting these works.

ONL LCT	ART-119-01	342693				
	K. SIMMONS	\$520.00	\$52.00	\$80.00	\$652.00	
	Pick up supplies Week 1: Tue, 1/8, 11:00am-1:00pm.					

ART-131 INTRODUCTION TO DRAWING, 4 CREDITS

This course introduces students to basic skills, drawing tools, materials, techniques, and elements of composition; line, shape, and value. Projects will involve observational drawings of still lifes, landscapes, and the figural form. Assignments include drawings, assigned readings, video clips, and group critiques. Historical and contemporary issues of drawing will be examined.

ONL LCT	ART-131-01	342695				
	A. SCHROER	\$520.00	\$52.00	\$80.00	\$652.00	
	Pick up supplies Week 1: Tue, 1/8, 11:00am-1:00pm.					
ONL LCT	ART-131-02	342698				
	A. SCHROER	\$520.00	\$52.00	\$80.00	\$652.00	
	Pick up supplies Week 1: Tue, 1/8, 11:00am-1:00pm.					
oc	ART-131-03	342700 MW		9-11:50 AM		
	R. KALMAN	\$520.00	\$52.00	\$80.00	\$652.00	

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
OFF: Other Off-Campus Location

Distance Education Notification:
ONL: Online Only
REM: Remote (w/ scheduled meetings)
HYB: In-person plus online work

Other Coding Translations:
TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text
NCT: No-Cost Text

Course Listing

2026/WI

Course No	Course Title, Credits					
Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time			
Instructor	Tuition	Fee	Crs. Fee	Total		

ART-205 HISTORY OF ART/ROMANESQUE THROUGH BAROQUE, 4 CREDITS

Examines art, culture, and history from the Romanesque through the Baroque periods in art. This is a broad overview of art history that promotes an understanding of art and its history through readings, discussion, papers and exams.

Recommended Prerequisites: WR-121Z

ONL LCT	ART-205-01	342170				
	J. SIMONE	\$520.00	\$52.00	\$21.00	\$593.00	

ART-232 LIFE DRAWING (FIGURE EMPHASIS), 4 CREDITS

Develop drawing skills, tools, materials, techniques, elements of composition; line, gesture, and value. Students work from direct observation and description of the figure (clothed and nude) describing volume and form on the two-dimensional plane. Assignments include drawing, assigned readings and group critiques of drawing projects.

Prerequisites: ART-131 or Student Petition

OC LCT	ART-232-01	342702 MW		1-3:50 PM		
	R. KALMAN	\$520.00	\$52.00	\$80.00	\$652.00	

ART-250 CERAMICS/BEGINNING, 4 CREDITS

This course provides a broad general introduction to fundamental ceramic skills and experience, with assignments that foster artistic growth. Students explore different methods of working with clay, including pinching, coiling, slab construction, and throwing on the wheel and are introduced to glazing and firing methods. Students research the history of ceramics and its connection to culture and society.

OC LCT	ART-250-01	342704 TTH		1-3:50 PM		
	N. BRODNICKI	\$520.00	\$52.00	\$79.00	\$651.00	
OC LCT	ART-250-02	342708 TTH		6-8:50 PM		
	N. WARRENS	\$520.00	\$52.00	\$79.00	\$651.00	

ART-252 CERAMICS/WHEEL-THROWING I, 4 CREDITS

This course is an introduction to ceramic wheel-throwing methods through the creation of functional and artistic forms to develop fundamental skills and clay experience and foster artistic growth. Students are introduced to glazing and firing methods. Students research the history of ceramics and its connection to culture and society.

OC LCT	ART-252-01	342710 TTH		9-11:50 AM		
	N. BRODNICKI	\$520.00	\$52.00	\$79.00	\$651.00	

ART-253 CERAMICS/INTERMEDIATE, 4 CREDITS

In this course, students further develop ceramic skills and clay experience to foster artistic growth. Students explore and develop different methods of working with clay, including pinching, coiling, slab construction, and throwing on the wheel and refine glazing and firing methods. Students research the history of ceramics and its connection to culture and society.

Prerequisites: ART-250, ART-251, or ART-252, or Student Petition

OC LCT	ART-253-01	342711 TTH		1-3:50 PM		
	N. BRODNICKI	\$520.00	\$52.00	\$79.00	\$651.00	
OC LCT	ART-253-02	342712 TTH		6-8:50 PM		
	N. WARRENS	\$520.00	\$52.00	\$79.00	\$651.00	

ART-255 CERAMICS/WHEEL-THROWING II, 4 CREDITS

This course continues the development of ceramic wheel-throwing methods through the creation of functional and artistic forms to develop skills and clay experience and foster artistic growth. Students explore glazing and firing methods. Students also examine the history of wheel thrown ceramics and its connection to culture and society.

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
OFF: Other Off-Campus Location

Distance Education Notification:
ONL: Online Only
REM: Remote (w/ scheduled meetings)
HYB: In-person plus online work

Course No	Course Title, Credits					
Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time			
Instructor	Tuition	Fee	Crs. Fee	Total		

Prerequisites: ART-252 or Student Petition

OC LCT	ART-255-01	342713 TTH		9-11:50 AM		
	N. BRODNICKI	\$520.00	\$52.00	\$79.00	\$651.00	

ART-262 DIGITAL PHOTOGRAPHY & PHOTO-IMAGING, 4 CREDITS

Introduces concepts, techniques, practices, aesthetics and ethics of photographic imaging and image-making with digital technology. Students will use imaging software.

Required: Access to a digital camera with adjustable exposure controls

ONL LCT	ART-262-01	342714				
	S. ELIOT	\$520.00	\$52.00	\$80.00	\$652.00	

ART-282 PAINTING: THE FIGURE/BEGINNING, 4 CREDITS

Introduces basic painting tools, materials, techniques, and elements of composition, gesture, value, color and space. Students work from direct observation and description of the figure (clothed and nude) describing volume and form on the two-dimensional plane. Course includes painting, readings and group critiques.

Prerequisites: ART-131 or Student Petition

OC LCT	ART-282-01	342721 TTH		9-11:50 AM		
	A. SCHROER	\$520.00	\$52.00	\$110.00	\$682.00	

ART-285 PAINTING: THE FIGURE/INTERMEDIATE, 4 CREDITS

Learn intermediate painting tools, materials, techniques, and elements of composition, gesture, value, color and space. Students work from direct observation and description of the figure (clothed and nude) describing volume and form on the two-dimensional plane. Course includes painting, readings and group critiques.

Prerequisites: ART-282 or Student Petition

OC LCT	ART-285-01	342722 TTH		9-11:50 AM		
	A. SCHROER	\$520.00	\$52.00	\$110.00	\$682.00	

ART-292 SCULPTURE (FIGURE EMPHASIS), 4 CREDITS

Explores the human form using traditional and contemporary sculpture techniques and concepts. Use of clay, armatures and other sculpture media will be explored. Sculptural design, concepts and craftsmanship will be explored through projects, lectures, and critiques. Students will work from direct observation and source materials (nude and abstract). The human figure and other life forms in the history of sculpture will be examined.

OC LCT	ART-292-01	342724 MW		1-3:50 PM		
	K. SIMMONS	\$520.00	\$52.00	\$80.00	\$652.00	

Auto Body/Collision Repair and Refinishing

Must have ANSI approved eye protection first day and comply with College safety policy.

AB-112 COLLISION REPAIR WELDING I, 2 CREDITS

This class focuses on auto collision damage repair. Emphasis is on Metal Inert Gas (MIG), Gas Metal Arc Welding (GMAW), welding on light gauge metals, and oxygen-acetylene cutting.

OC	AB-112-01	342586 F		8-12:20 PM		
	C. DAHLSTRUD-RIVERA	\$260.00	\$26.00	\$230.00	\$516.00	
	J. PHELPS					

AB-113 COLLISION REPAIR I/NONSTRUCTURAL, 6 CREDITS

Other Coding Translations:
TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text
NCT: No-Cost Text

Course Listing

2026/WI

Course No Course Title, Credits								Course No Course Title, Credits							
Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total	
Instructor	Tuition	Fee	Crs. Fee		Instructor	Tuition	Fee	Crs. Fee		Instructor	Tuition	Fee	Crs. Fee		
Provides basic instruction in collision repairs, including shop safety and chemical hazard safety; proper and safe use of tools; basic metal work and finishing; use of filler; door removal, replacement and alignment; and replacement and alignment of bolt-on front end sheet metal parts.															
Prerequisite or Corequisite: AB-112 and ABR-125															
oc	AB-113-01	342588 MT		7-12:20 PM											
	M. GRIFFITH	\$780.00	\$78.00	\$337.00	\$1,195.00										
	M. HOUSE														
AB-123 COLLISION REPAIR WELDING II, 2 CREDITS															
Training in light gauge metal repair: Gas Metal Arc Welding (GMAW), Plasma Arc Cutting (PAC), Squeeze Type Resistance Spot Welding (ST-RSW), and other advanced welding techniques specific to collision damage repair.															
Prerequisites: AB-112															
oc	AB-123-01	342592 F		8-12:20 PM											
	C. DAHLSRUD-	\$260.00	\$26.00	\$158.00	\$444.00										
	RIVERA														
	J. PHELPS														
AB-133 COLLISION REPAIR II/STRUCTURAL, 6 CREDITS															
Repair major body damage using modern frame repair equipment. Includes repair and replacement of bolt-on, bonded, and welded components using the latest technology. Includes introduction to computerized measuring and damage analysis.															
Prerequisites: AB-113															
oc	AB-133-01	342593 MT		7-12:20 PM											
	M. GRIFFITH	\$780.00	\$78.00	\$337.00	\$1,195.00										
	M. HOUSE														
AB-150 COLLISION REPAIR COMPUTERIZED ESTIMATING - AUDATEX, 2 CREDITS															
Provides detailed instruction in the use of modern computerized estimating systems in the collision repair field. Focus is on Audatex software.															
Prerequisites: AB-149															
oc	AB-150-01	342594 T		1:30 -5:20 PM											
	A. YAGER-ROUNDS	\$260.00	\$26.00	\$154.00	\$440.00										
AB-222 COLLISION REPAIR III/ADVANCED STRUCTURAL, 6 CREDITS															
Major collision repair with a systems approach: frame and structure, panels, suspension and brakes, electrical and cooling systems. Emphasis on frame and unibody repair, replacement of welded body panels, and diagnosis and repair of related damage.															
Prerequisites: AB-133															
oc	AB-222-01	342597 MT		7-12:20 PM											
	M. GRIFFITH	\$780.00	\$78.00	\$337.00	\$1,195.00										
	M. HOUSE														
AB-224 COLLISION REPAIR IV/ADVANCED STRUCTURAL, 6 CREDITS															
Advanced frame and Unibody repair procedures. Electronic measurement and dimensioning, repair documentation, brakes, suspension, and alignment as they relate to collision repair.															
Prerequisites: AB-222															
oc	AB-224-01	342600 MT		7-12:20 PM											
	M. GRIFFITH	\$780.00	\$78.00	\$337.00	\$1,195.00										
	M. HOUSE														
AB-226 COLLISION REPAIR V/ADVANCED STRUCTURAL, 6 CREDITS															
Uses the latest high quality, productive techniques and equipment to repair vehicles to pre-collision condition. Covers the refined collision repair processes for today's workplace.															
Prerequisites: AB-224															
oc	AB-226-01	342601 MT		7-12:20 PM											
	M. GRIFFITH	\$780.00	\$78.00	\$337.00	\$1,195.00										
	M. HOUSE														
AB-235 COLLISION REPAIR WELDING III, 2 CREDITS															
Aluminum welding for collision damage repair. Gas Metal Arc Welding (GMAW) and Gas Metal Arc Welding (GMAW) on silicon bronze are learned, along with related welding techniques and equipment/safety procedures.															
Prerequisites: AB-123															
oc	AB-235-01	342602 F		8-12:20 PM											
	C. DAHLSRUD-	\$260.00	\$26.00	\$170.00	\$456.00										
	RIVERA														
	J. PHELPS														
AB-280 COLLISION REPAIR/CWE, 2-6 CREDITS (VAR)															
Cooperative work experience. Work-based learning experience in an auto body repair shop. Required: Student Petition.															
Corequisites: CWE-281															
oc	AB-280-01	342605													
	M. HOUSE	\$780.00	\$78.00	\$45.00	\$903.00V										
	Required: Student Petition. Corequisite: Take the following CWE-281-06.														
ABR-125 COLLISION REPAIR/REFINISHING I, 6 CREDITS															
Covers shop safety, fire prevention, selection and use of paint products, abrasives, fillers, basic application of primers, sealers, and top coats.															
Prerequisite or Corequisite: AB-112 and AB-113															
oc	ABR-125-01	342608 WTH		7-12:20 PM											
	M. GRIFFITH	\$780.00	\$78.00	\$337.00	\$1,195.00										
	M. HOUSE														
ABR-127 COLLISION REPAIR/REFINISHING II, 6 CREDITS															
Application of solvent and waterborne finishes, including spot repairs, color matching, complete refinishing, and problem solving. Introduction to computerized color information retrieval and mixing.															
Prerequisites: ABR-125															
oc	ABR-127-01	342611 WTH		7-12:20 PM											
	M. GRIFFITH	\$780.00	\$78.00	\$337.00	\$1,195.00										
	M. HOUSE														
ABR-129 COLLISION REPAIR/REFINISHING III, 6 CREDITS															
Application of solvent and waterborne basecoats and tri-coats and urethane topcoats, using both foreign and domestic refinish systems. Includes complete refinishing, spot and panel painting, color matching and problem solving.															
Prerequisites: ABR-127															
oc	ABR-129-01	342612 WTH		7-12:20 PM											
	M. GRIFFITH	\$780.00	\$78.00	\$337.00	\$1,195.00										
	M. HOUSE														
ABR-225 PRODUCTION SHOP TECHNIQUES, 6 CREDITS															
Designed for students who wish to gain additional hands-on experience in refinishing, using the most up-to-date methods and materials.															

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
OFF: Other Off-Campus Location

Distance Education Notification:
ONL: Online Only
REM: Remote (w/ scheduled meetings)
HYB: In-person plus online work

Other Coding Translations:
TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text
NCT: No-Cost Text

Course Listing

2026/VI

Course No	Course Title, Credits						
	Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total
Prerequisites: ABR-129							
oc	ABR-225-01 M. GRIFFITH M. HOUSE	342613	WTH			7-12:20 PM	
				\$780.00	\$78.00	\$337.00	\$1,195.00

ABR-227 RESTORATION PRACTICES, 6 CREDITS

Designed for students who wish to broaden their skills base in the upper end refinish market. Projects will be considerably more challenging, with standards and expectations set higher.

Prerequisites: ABR-225

oc	ABR-227-01 M. GRIFFITH M. HOUSE	342616	WTH			7-12:20 PM	
				\$780.00	\$78.00	\$337.00	\$1,195.00

Automotive Service Technology

Must have ANSI approved eye protection first day and comply with College safety policy.

AM-101 INTRO TO AUTOMOTIVE SERVICE TECHNOLOGY, 2 CREDITS

This course will prepare students for success in the Automotive Service Technology Program. Shop orientation and automotive industry safety training will be provided. Students can earn industry-recognized certificates. Students will be exposed to industry-recognized online service information. Students will also be introduced to tasks that align with the Auto Service Excellence Education Foundation (ASEEF) Master Automotive Service Technician (MAST) program accreditation.

Corequisites: AM-129, AM-130, AM-131, AM-133, AM-135, or AM-142

Prerequisites: MTH-020 or placement in MTH-050, and placement in WRD-090

oc	AM-101-01 N. ROBERTS	342629	MTWTHF			1-5:50 PM	
				\$260.00	\$26.00	\$22.00	\$308.00
	Meets: 1/5-1/9.						

AM-131 SUSPENSION SYSTEMS, 5 CREDITS

In this theory and lab course, students will learn the design, construction, service, and repair of front and rear suspension systems, wheels and tires, steering systems, and alignments. Students will service and repair these systems in the hands-on lab.

Prerequisites: MTH-020 or placement in MTH-050, and placement in WRD-090

Recommended Prerequisites: AM-101 with a C or better, or Student Petition

oc	AM-131-01 W. VAN RIPER	342644	MTWTH			1-5:50 PM	
				\$650.00	\$65.00	\$211.00	\$926.00
	Meets: 1/12-2/13.						
oc	AM-131-02 W. VAN RIPER	342648	MTWTH			1-5:50 PM	
				\$650.00	\$65.00	\$211.00	\$926.00
	Meets: 2/16-3/20.						

AM-133 ENGINE SYSTEMS, 5 CREDITS

This course is designed to provide students with the entry-level skills necessary to repair automobile engines. Includes general engine diagnosis; cylinder head and valve train diagnosis and repair; engine block assembly diagnosis and repair; and lubrication and cooling systems diagnosis and repair.

Prerequisites: MTH-020 or placement in MTH-050, and placement in WRD-090

Recommended Prerequisites: AM-101 with a C or better, or Student Petition

Campus Locations:
HAR: Harmony Community Campus
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Course No	Course Title, Credits						
	Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total
oc	AM-133-01 J. LEUCK	342650	MTWTH			1-5:50 PM	
				\$650.00	\$65.00	\$211.00	\$926.00
	Meets: 1/12-2/13.						
oc	AM-133-02 J. LEUCK	342655	MTWTH			1-5:50 PM	
				\$650.00	\$65.00	\$211.00	\$926.00
	Meets: 2/16-3/20.						

AM-242 ENGINE PERFORMANCE II, 5 CREDITS

This course is the second of two engine performance courses. In this course the students will receive training in advanced lab scope diagnostics, advanced level scan tool usage, power train reprogramming and the opportunity to do real world diagnostics. On board diagnostics 2 (OBD2) readiness monitors and how they work will be discussed. Training and practical application of all monitored systems of the OBD2 system will be performed.

Prerequisites: AM-142

oc	AM-242-01 N. ROBERTS	342658	MTWTH			7-11:50 AM	
				\$650.00	\$65.00	\$211.00	\$926.00
	Meets: 1/5-2/5.						
oc	AM-242-02 N. ROBERTS	342668	MTWTH			7-11:50 AM	
				\$650.00	\$65.00	\$211.00	\$926.00
	Meets: 2/9-3/13.						

AM-245 AUTOMATIC TRANSMISSION SYSTEMS, 5 CREDITS

This course covers the theory and physical description of the automatic transmission. The student will have the opportunity to acquire practical experience and learn the proper procedures for overhaul, service, and diagnosis of an automatic transmission.

Prerequisites: AM-129

oc	AM-245-01 D. BLACKMON	342670	MTWTH			7-11:50 AM	
				\$650.00	\$65.00	\$174.00	\$889.00
	Meets: 1/5-2/5.						
oc	AM-245-02 D. BLACKMON	342672	MTWTH			7-11:50 AM	
				\$650.00	\$65.00	\$174.00	\$889.00
	Meets: 2/9-3/13.						

AM-280 AUTO MECHANICS/CWE, 1-6 CREDITS (VAR)

Cooperative work experience. Work-related learning experience in an auto repair shop or auto dealership. Required: Student Petition.

Corequisites: CWE-281

oc	AM-280-01 N. ROBERTS	342673					
				\$780.00	\$78.00	\$45.00	\$903.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.						

Biology

BI-101 GENERAL BIOLOGY; CELLULAR BIOLOGY, 4 CREDITS

An inquiry-based laboratory course focusing on cellular biology, genetics, epigenetics, biotechnology and natural selection. Class uses student centered activities in a collaborative learning environment to enhance appreciation of the biological world.

Corequisites: BI-101L

Recommended Prerequisites: MTH-060 or MTH-098 or placement in MTH-065; and WRD-098 or placement in WR-121Z

OC LCT	BI-101-01 E. DEBEY	342728	MW			9-10:20 AM	
				\$520.00	\$52.00	\$55.00	\$627.00
	This section has an in-person lab.						
ONL LCT	BI-101-40 E. DEBEY	342733					
				\$520.00	\$52.00	\$55.00	\$627.00

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
ONL	BI-101-41 342735 T. BLACKWELL					\$520.00	\$52.00	\$55.00		\$627.00
BI-101L	GENERAL BIOLOGY; CELLULAR BIOLOGY LAB, 0 CREDIT									
Lab course for BI-101										
Corequisites: BI-101										
oc	BI-101L-01 342736 MW							10:30 -11:50 AM		
	E. DEBEY					\$0.00	\$0.00	\$0.00		\$0.00
ONL	BI-101L-40 342737									
	E. DEBEY					\$0.00	\$0.00	\$0.00		\$0.00
ONL	BI-101L-41 342738									
	T. BLACKWELL					\$0.00	\$0.00	\$0.00		\$0.00
BI-102	GENERAL BIOLOGY; ANIMAL SYSTEMS, 4 CREDITS									
An inquiry-based laboratory course focusing on human and animal body systems; including teratogens, Hox genes and hormone mimics in embryonic development. Activities emphasize comparisons across animal phyla to better understand the diversity of life. The class uses student centered activities in a collaborative learning environment to enhance appreciation of the animal kingdom.										
Corequisites: BI-102L										
Recommended Prerequisites: MTH-060 or MTH-098 or placement in MTH-065; and WRD-098 or placement in WR-121Z										
oc	BI-102-01 342739 MW							1-2:20 PM		
	E. DEBEY					\$520.00	\$52.00	\$55.00		\$627.00
Corequisite: Take 1 of the following BI-102L-01, BI-102L-02, BI-102L-03.										
oc	BI-102-02 342744 TTH							9:20 -10:40 AM		
	S. SOLL					\$520.00	\$52.00	\$55.00		\$627.00
Corequisite: Take 1 of the following BI-102L-01, BI-102L-02, BI-102L-03.										
ONL	BI-102-40 342749									
	S. SOLL					\$520.00	\$52.00	\$55.00		\$627.00
ONL	BI-102-41 342751									
	K. OSTLUND					\$520.00	\$52.00	\$55.00		\$627.00
BI-102L	GENERAL BIOLOGY; ANIMAL SYSTEMS LAB, 0 CREDIT									
Lab course for BI-102										
Corequisites: BI-102										
oc	BI-102L-01 342752 MW							2:30 -3:50 PM		
	E. DEBEY					\$0.00	\$0.00	\$0.00		\$0.00
Corequisite: Take 1 of the following BI-102-01, BI-102-02.										
oc	BI-102L-02 342754 TTH							10:50 -12:10 PM		
	S. SOLL					\$0.00	\$0.00	\$0.00		\$0.00
Corequisite: Take 1 of the following BI-102-01, BI-102-02.										
oc	BI-102L-03 342756 TTH							1-2:20 PM		
	N. SEFCIKOVA					\$0.00	\$0.00	\$0.00		\$0.00
Corequisite: Take 1 of the following BI-102-01, BI-102-02.										
ONL	BI-102L-40 342758									
	S. SOLL					\$0.00	\$0.00	\$0.00		\$0.00
ONL	BI-102L-41 342759									
	K. OSTLUND					\$0.00	\$0.00	\$0.00		\$0.00
BI-112	GENERAL BIOLOGY FOR HEALTH SCIENCES, 4 CREDITS									
A one-term preparatory course that introduces the Health Occupations student to the scientific method, molecular and cellular biology, principles of inheritance, homeostasis, natural selection, tissues, and organ systems. Topics and skills covered prepare students to enter BI-231 and BI-234.										

Corequisites: BI-112L**Recommended Corequisite:** CH-112**Recommended Prerequisites:** MTH-060 or MTH-098 or placement in MTH-065, and WRD-098 or placement in WR-121Z

oc	BI-112-01 342760 TTH							11-12:20 PM		
	J. BOWN					\$520.00	\$52.00	\$55.00		\$627.00
HAR	BI-112-15 342761 MW							9-10:20 AM		
	P. JONES					\$520.00	\$52.00	\$55.00		\$627.00
ONL	BI-112-20 342764									
	S. KELSEY					\$520.00	\$52.00	\$55.00		\$627.00
ONL	BI-112-40 342765									
	M. ANDURI- FLYNN					\$520.00	\$52.00	\$55.00		\$627.00

BI-112L GENERAL BIOLOGY FOR HEALTH SCIENCES LAB, 0 CREDIT

Lab course for BI-112

Corequisites: BI-112

oc	BI-112L-01 342766 T							1-3:50 PM		
	M. PLUMMER					\$0.00	\$0.00	\$0.00		\$0.00
oc	BI-112L-02 342767 TH							8-10:50 AM		
	J. BOWN					\$0.00	\$0.00	\$0.00		\$0.00
HAR	BI-112L-15 342768 MW							10:30 -11:50 AM		
	P. JONES					\$0.00	\$0.00	\$0.00		\$0.00
HAR	BI-112L-20 342771 TH							6-8:50 PM		
	K. OSTLUND					\$0.00	\$0.00	\$0.00		\$0.00
ONL	BI-112L-40 342772									
	M. ANDURI- FLYNN					\$0.00	\$0.00	\$0.00		\$0.00

BI-120 INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY, 4 CREDITS

This course is designed to serve students as an overview introductory course to human anatomy and physiology. Material covered includes the structure and function of the human body. Basic chemistry and cell structures are covered, as well as the organization of tissues, organs, and organ systems. Correlations can then be made between this material and disease states commonly encountered in health care. Dissection of animal tissues is required.

Corequisites: BI-120L

HAR	BI-120-15 342775 MW							1-2:20 PM		
	P. JONES					\$520.00	\$52.00	\$55.00		\$627.00

BI-120L INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY LAB, 0 CREDIT

Lab course for BI-120

Corequisites: BI-120

HAR	BI-120L-15 342777 MW							2:30 -3:50 PM		
	P. JONES					\$0.00	\$0.00	\$0.00		\$0.00

BI-165D NATURAL HISTORY OF THE WESTERN DESERTS, 4 CREDITS

A lecture and lab course studying plants, animals, geology, ecology and environmental issues of western deserts. This intensive nine-day field course travels through western desert regions. Required: Student Petition.

Corequisites: BI-165DL**Prerequisites:** WRD-098 or placement in WR-121Z**Recommended:** One term of college-level science**Campus Locations:**

HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
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ESPAÑOL: Enseñado en español

LCT: Low-Cost Text
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Course No	Course Title, Credits					Course No	Course Title, Credits				
	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee
Instructor						Crs. Fee	Instructor				
						Total					Total
OC	BI-165D-01	342778	MTWTHFSSU				BI-222Z	PRINCIPLES OF BIOLOGY: ORGANISMS, 5 CREDITS			
	J. BOWN		M	\$520.00	\$52.00	\$450.00		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.			
	A. KOTASH					\$1,022.00		Corequisites: BI-222LZ			
	Required: Student Petition. Students will travel to Death Valley to study desert processes during Spring Break (3/20/26-3/28/26). In addition, 4 meetings are required. Meeting Dates: 1/12, 2/2, 2/23. Individual meetings (3/2-3/13). Contact Jennifer Bown (jenb@clackamas.edu) for more information. Required Fee: \$450.							Prerequisite or Corequisite: CH-105, or CH-222Z and CH-228Z			
BI-165DL	NATURAL HISTORY OF THE WESTERN DESERTS LAB, 0 CREDIT						OC	BI-222Z-01	342786	MW	8-9:50 AM
	Lab course for BI-165D							T. BLACKWELL		\$650.00	\$65.00
	Corequisites: BI-165D									\$55.00	\$770.00
								Corequisite: Take 1 of the following BI-222LZ-01, BI-222LZ-02.			
OFF	BI-165DL-01	342780	MTWTHFSSU				ONL	BI-222Z-02	342788		
	J. BOWN			\$0.00	\$0.00	\$0.00		T. BLACKWELL		\$650.00	\$65.00
	Required: Student Petition. Students will travel to Death Valley to study desert processes during Spring Break (3/20/26-3/28/26). Contact Jennifer Bown (jenb@clackamas.edu) for more information. Required Fee: \$450.					\$0.00		This section requires an in-person lab. Corequisite: Take 1 of the following BI-222LZ-01, BI-222LZ-02.			
BI-204	ELEMENTARY MICROBIOLOGY, 4 CREDITS						BI-231	HUMAN ANATOMY & PHYSIOLOGY I, 4 CREDITS			
	A lab class with environmental focus. This class explores microscopic life and its importance in the environment and in industry. We also learn about the causes and implications of waterborne pathogens. Labs will provide practice with aseptic techniques and introduce tools and current methodologies used in the study of microorganisms.							A lab course designed for students entering the physical education or medically-related fields. Includes body organization, terminology, tissues and systemic study of the integumentary, skeletal and nervous systems. Animal organ dissection required.			
OC	BI-204-01	342781	MW			9-11:50 AM		Prerequisites: BI-112 (preferred), or BI-101 and BI-102, or BI-221Z			
	J. NURMI			\$520.00	\$52.00	\$50.00		Corequisites: BI-231L			
	Remote options available with this section.					\$622.00		Prerequisites: CH-112 (preferred), or CH-104 and CH-105, or CH-221Z, CH-227Z, CH-222Z and CH-228Z			
OC	BI-204-02	342783	TTH			9-11:50 AM	OC HYB	BI-231-01	342791	M	2:30 -5:00 PM
	J. NURMI			\$520.00	\$52.00	\$50.00		B. KOP		\$520.00	\$52.00
						\$622.00				\$55.00	\$627.00
								Corequisite: Take 1 of the following BI-231L-01, BI-231L-02.			
BI-216	GENERAL ZOOLOGY, 4 CREDITS						OC HYB	BI-231-02	342797	T	1-2:50 PM
	A lecture and lab course covering the maintenance of the cellular, tissue, & organ levels of invertebrates, evolution of animal systems and the diversity of the invertebrate animal phyla.							M. PATTERSON		\$520.00	\$52.00
	Corequisites: BI-216L									\$55.00	\$627.00
	Prerequisites: MTH-095 with a C or better or placement in MTH-111Z							Corequisite: Take 1 of the following BI-231L-01, BI-231L-02.			
	Recommended Prerequisites: WRD-098 or placement in WR-121Z						OC HYB	BI-231-20	342798	T	6:30 -9:00 PM
OC	BI-216-01	347560	MW			10:30 -11:50 AM		B. KOP		\$520.00	\$52.00
	J. BOWN			\$520.00	\$52.00	\$55.00				\$55.00	\$627.00
BI-216L	GENERAL ZOOLOGY LAB, 0 CREDIT						BI-231L	HUMAN ANATOMY & PHYSIOLOGY I LAB, 0 CREDIT			
	Lab course for BI-216							Lab course for BI-231			
	Corequisites: BI-216							Corequisites: BI-231			
OC	BI-216L-01	347561	W			1-3:50 PM	OC	BI-231L-01	342799	TH	2:30 -5:20 PM
	J. BOWN			\$0.00	\$0.00	\$0.00		J. GALLEGOS		\$0.00	\$0.00
						\$0.00		Corequisite: Take 1 of the following BI-231-01, BI-231-02.			
BI-222LZ	PRINCIPLES OF BIOLOGY: ORGANISMS LAB, 0 CREDIT						OC	BI-231L-02	342800	T	3:30 -6:20 PM
	Lab course for BI-222Z							J. GALLEGOS		\$0.00	\$0.00
	Corequisites: BI-222Z							Corequisite: Take 1 of the following BI-231-01, BI-231-02.			
OC	BI-222LZ-01	342789	TH			8-10:50 AM	OC	BI-231L-20	342803	TH	6:30 -9:20 PM
	T. BLACKWELL			\$0.00	\$0.00	\$0.00		J. GALLEGOS		\$0.00	\$0.00
	Corequisite: Take 1 of the following BI-222Z-01, BI-222Z-02.					\$0.00					
OC	BI-222LZ-02	342790	TH			1-3:50 PM					
	T. BLACKWELL			\$0.00	\$0.00	\$0.00					
	Corequisite: Take 1 of the following BI-222Z-01, BI-222Z-02.					\$0.00					

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ESPAÑOL: Enseñado en español
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NCT: No-Cost Text

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
HAR	BI-232-15	342810	TTH					9-10:20 AM		
	M. PATTERSON	\$520.00	\$52.00	\$55.00	\$627.00					
OC HYB	BI-232-20	342812	M					6:30 -9:20 PM		
	B. KOP	\$520.00	\$52.00	\$55.00	\$627.00					

BI-232L HUMAN ANATOMY & PHYSIOLOGY II LAB, 0 CREDIT

Lab course for BI-232

Corequisites: BI-232

OC	BI-232L-01	342814	M					1-3:50 PM		
	M. PATTERSON	\$0.00	\$0.00	\$0.00	\$0.00					
	Corequisite: Take 1 of the following BI-232-01, BI-232-02.									
OC	BI-232L-02	342825	W					9-11:50 AM		
	M. PATTERSON	\$0.00	\$0.00	\$0.00	\$0.00					
	Corequisite: Take 1 of the following BI-232-01, BI-232-02.									
HAR	BI-232L-15	342827	TTH					10:30 -11:50 AM		
	M. PATTERSON	\$0.00	\$0.00	\$0.00	\$0.00					
OC	BI-232L-20	342828	W					6:30 -9:20 PM		
	J. GALLEGOS	\$0.00	\$0.00	\$0.00	\$0.00					

BI-233 HUMAN ANATOMY & PHYSIOLOGY III, 4 CREDITS

Lab course covering neuroendocrine control, digestive, excretory and reproductive systems. Study of fluid, electrolyte and acid-base balance. Animal organ dissection required.

Prerequisites: BI-232 with a C or better**Corequisites:** BI-233L

OC HYB	BI-233-01	342831	T					9-10:50 AM		
	B. KOP	\$520.00	\$52.00	\$55.00	\$627.00					

BI-233L HUMAN ANATOMY & PHYSIOLOGY III LAB, 0 CREDIT

Lab course for BI-233

Corequisites: BI-233

OC	BI-233L-01	342839	T					11:30 -2:20 PM		
	J. GALLEGOS	\$0.00	\$0.00	\$0.00	\$0.00					

BI-234 INTRODUCTORY MICROBIOLOGY, 4 CREDITS

An introductory microbiology lab course required for health science and science majors. Includes characteristics, physiology and growth requirements of microorganisms, interactions between humans and microorganisms, immunology, infection, and principles of microbial control. This course emphasizes critical thinking and analytical skills in a collaborative laboratory environment.

Prerequisites: BI-101, BI-112 or BI-221Z**Corequisites:** BI-234L**Prerequisites:** CH-104, CH-112, or CH-221Z and CH-227Z

OC LCT	BI-234-01	342846	TTH					1-2:20 PM		
	S. SOLL	\$520.00	\$52.00	\$55.00	\$627.00					
OC LCT	BI-234-20	342851	TTH					6-7:20 PM		
	M. PLUMMER	\$520.00	\$52.00	\$55.00	\$627.00					
ONL LCT	BI-234-40	342855								
	A. KAPILA	\$520.00	\$52.00	\$170.00	\$742.00					

BI-234L INTRODUCTORY MICROBIOLOGY LAB, 0 CREDIT

Lab course for BI-234

Corequisites: BI-234

OC	BI-234L-01	342857	TTH					2:30 -3:50 PM		
	S. SOLL	\$0.00	\$0.00	\$0.00	\$0.00					
OC	BI-234L-20	342859	TTH					7:30 -8:50 PM		
	M. PLUMMER	\$0.00	\$0.00	\$0.00	\$0.00					
ONL	BI-234L-40	342861								
	A. KAPILA	\$0.00	\$0.00	\$0.00	\$0.00					

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Business Administration**BA-101Z INTRODUCTION TO BUSINESS, 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.

Recommended Prerequisites: WRD-090 or placement in WRD-098

OC LCT	BA-101Z-01	342709	MW					8-9:50 AM		
	J. EICHENBERGER	\$520.00	\$52.00	\$5.00	\$577.00					
OC HYB LCT	BA-101Z-02	342715	W					10-11:50 AM		
	J. EICHENBERGER	\$520.00	\$52.00	\$5.00	\$577.00					
OC HYB LCT	BA-101Z-03	342716	TH					10-11:50 AM		
	J. AMAN	\$520.00	\$52.00	\$44.38	\$616.38					
	Online textbook included in section fees.									
ONL LCT	BA-101Z-04	342717								
	S. RAHN	\$520.00	\$52.00	\$44.38	\$616.38					
	Online textbook included in section fees.									
ONL LCT	BA-101Z-05	342718								
	K. HEINIG	\$520.00	\$52.00	\$44.38	\$616.38					
	Online textbook included in section fees.									
ONL NCT	BA-101Z-06	342719								
	C. CHATTERTON	\$520.00	\$52.00	\$5.00	\$577.00					

BA-111 GENERAL ACCOUNTING I, 3 CREDITS

Introduces the terminology and processes of full-cycle, modified cash and accrual basis bookkeeping for small service and merchandising businesses with inventory. Focus is on how to analyze and record financial transactions, reconcile accounts and trial balances, and prepare basic financial statements. Additional topics include cash management, bank reconciliations, accounting for sales and purchase discounts. Emphasizes procedure and practice.

Recommended Prerequisites: Placement in MTH-020

OC	BA-111-01	342723	W					1-3:50 PM		
	J. SAN-CLAIRE	\$390.00	\$39.00	\$134.99	\$563.99					
	Online textbook included in section fees.									
ONL	BA-111-02	342725								
	J. SAN-CLAIRE	\$390.00	\$39.00	\$134.99	\$563.99					
	Online textbook included in section fees.									

BA-112 GENERAL ACCOUNTING II, 4 CREDITS

Provides a more in-depth look at general accounting principles and practices for small business. Topics include payroll, recording bad debt, notes receivable and payable, inventory adjustment, and long-term asset valuation. Accounting practices for partnerships and manufacturing structures are examined, and financial analysis is introduced as a tool for evaluating the health and wealth of a business.

Prerequisites: BA-111 or BA-211Z**Prerequisite or Corequisite:** BA-131 or some knowledge of Excel

ONL	BA-112-01	342726								
	J. SAN-CLAIRE	\$520.00	\$52.00	\$134.99	\$706.99					
	Online textbook included in section fees.									

BA-119 PROJECT MANAGEMENT PRACTICES, 2 CREDITS

Course No	Course Title, Credits						Course No	Course Title, Credits					
	Section No Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU) Tuition	Fee	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU) Tuition	Fee	Time Crs. Fee	Total
Basic course in project management, intended for non-project management students. Students gain a basic understanding of project management principles and techniques, with emphasis on scope planning, scheduling, and resource management. Students learn practical application of cost control, time management, and communication in project environments.							Required: Access to the following: personal computer or laptop with MS Windows Operating System (Windows 10 or 11), Office 365 OR MS Office 2021, internet access (including email), or access to the CCC Dye Academic Computer Lab for completion of coursework Recommended Prerequisites: WRD-090 or placement in WRD-098						
ONL	BA-119-01	342727					OC	BA-131-01	342734	TTH		1-2:50 PM	
	C. PLOWMAN		\$260.00	\$26.00	\$5.00	\$291.00		F. MEYERS		\$520.00	\$52.00	\$130.00	\$702.00
ONL	BA-119-02	342729						Office 2021 version is used. Online textbook included in section fees.					
	C. PLOWMAN		\$260.00	\$26.00	\$5.00	\$291.00	OC HYB	BA-131-02	342740	TH		10-11:50 AM	
								F. MEYERS		\$520.00	\$52.00	\$130.00	\$702.00
								Office 2021 version is used. Online textbook included in section fees.					
BA-120	PROJECT MANAGEMENT FUNDAMENTALS, 4 CREDITS						REM	BA-131-03	342741	M		6-7:50 PM	
Foundational course in project management. Students gain an introduction to project management principles and techniques, including identifying project life cycle phases, generating a project charter, learning and applying stakeholder management techniques, generating work/task breakdowns, network diagrams and identifying the critical path. Students will also learn and apply risk management techniques, resource allocation, and project monitoring and controlling methodologies. Recommended: Working knowledge and access to MS Excel and MS Word								J. AMAN		\$520.00	\$52.00	\$130.00	\$702.00
								Office 2021 version is used. Online textbook included in section fees.					
							ONL	BA-131-04	342742				
								B. FORNEY		\$520.00	\$52.00	\$130.00	\$702.00
								Office 2021 version is used. Online textbook included in section fees.					
ONL	BA-131-05	342743					ONL	BA-131-05	342743				
								D. HEINIG		\$520.00	\$52.00	\$130.00	\$702.00
								Office 2021 version is used. Online textbook included in section fees.					
ONL	BA-131-06	342745					ONL	BA-131-06	342745				
								T. FRANK		\$520.00	\$52.00	\$130.00	\$702.00
								Office 2021 version is used. Online textbook included in section fees.					
BA-169Z	DATA ANALYSIS USING MICROSOFT EXCEL, 4 CREDITS						ONL	BA-169Z-30	342346				
Covers Microsoft Excel software skills necessary for evidence-based problem-solving, including workbook editing, formula creation, charting, and pivot tables. Emphasizes hands-on learning using Excel functions to perform data analysis to enhance decision-making. Prerequisites: BA-131 or CS-120 or higher or placement into BA-169Z								D. CARINO		\$520.00	\$52.00	\$84.13	\$656.13
								Online textbook included in section fees.					
							ONL	BA-169Z-31	347539				
								D. HEINIG		\$520.00	\$52.00	\$84.13	\$656.13
								Online textbook included in section fees.					
BA-177	PAYROLL ACCOUNTING, 3 CREDITS						ONL	BA-177-01	342746				
This course introduces the student to the basic payroll procedures and transactions that are necessary for recording business transactions that compensate personnel. Included in this introduction are wage, salary, and commission or bonus computation and recording, as well as coverage of the federal laws that affect payroll, taxation, and payroll deductions. Prerequisites: BA-111 or BA-211Z Recommended Prerequisites: BA-131 or some knowledge of Excel								I. SETO		\$390.00	\$39.00	\$107.50	\$536.50
								Online textbook included in section fees.					
							BA-205	BUSINESS COMMUNICATIONS WITH TECHNOLOGY, 4 CREDITS					

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	Instructor									
Students practice critical skills for successful communication in a business environment by employing a structured writing process, analyzing audience needs, and identifying and using appropriate communication channels and modalities. Students also work individually to produce a PowerPoint presentation with embedded narration and as team members to manage a comprehensive project and complete a business research paper.										
Recommended Prerequisites: BA-131 and WR-121Z										
ONL NCT	BA-205-01	342748	C. CHATTERTON			\$520.00	\$52.00	\$5.00		\$577.00
BA-206 MANAGEMENT FUNDAMENTALS, 4 CREDITS										
Concepts and theories of management with focus on planning, organizing, leading, and controlling. Decision making, planning principles, global management, managing people and teams, effective communication, and motivation are included.										
Prerequisites: WRD-090 or placement in WRD-098										
Recommended Prerequisites: BA-101Z and BA-251										
ONL	BA-206-01	342750	J. AMAN			\$520.00	\$52.00	\$123.20		\$695.20
Online textbook included in section fees.										
BA-208 EMPLOYEE AND LABOR RELATIONS, 4 CREDITS										
Provides a legal and historical overview of employee and labor relations in both union and non-union environments. Presents a realistic picture of collective bargaining and labor relations situations and highlights contemporary issues in employee relations, unions, bargaining units, and employee group representation.										
ONL LCT	BA-208-01	342753	M. MOISO			\$520.00	\$52.00	\$48.75		\$620.75
Online textbook included in section fees.										
BA-211Z PRINCIPLES OF FINANCIAL ACCOUNTING, 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.										
Prerequisites: BA-101Z and BA-131										
Recommended Prerequisites: BA-111, and MTH-050 or higher										
OC HYB	BA-211Z-01	342755 T	I. SETO			\$520.00	\$52.00	\$134.99		\$706.99
Online textbook included in section fees.										
ONL	BA-211Z-02	342762	J. SAN-CLAIRE			\$520.00	\$52.00	\$134.99		\$706.99
Online textbook included in section fees.										
BA-213Z PRINCIPLES OF MANAGERIAL ACCOUNTING, 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.										
Prerequisites: BA-211Z with a C or better										
ONL	BA-213Z-01	342769	J. SAN-CLAIRE			\$520.00	\$52.00	\$134.99		\$706.99
Online textbook included in section fees.										
BA-216 COST ACCOUNTING, 4 CREDITS										
Cost accounting extends the content of BA-213Z, which focused on managerial accounting. Specifically, job order and process costing are examined in depth, including: variances and cost estimations; standard and variable costing in the manufacturing environment; inventory and capacity analysis; customer-profitability analysis; spoilage, rework and scrap; and performance measurement.										
Prerequisites: BA-213Z										
ONL	BA-216-01	342773	T. FRANK			\$520.00	\$52.00	\$134.99		\$706.99
Online textbook included in section fees.										
BA-218 PERSONAL FINANCE, 4 CREDITS										
Analysis and application of basic principles of personal finance including budgeting and spending, financial decision-making, use of credit, saving and investing, home purchase, taxes, risk management, retirement planning, estate planning, and other major personal finance topics.										
Prerequisites: MTH-050 or higher and WRD-098										
ONL	BA-218-01	342774	J. AMAN			\$520.00	\$52.00	\$134.99		\$706.99
Online textbook included in section fees.										
BA-223 PRINCIPLES OF MARKETING, 4 CREDITS										
Offers a comprehensive investigation of strategic marketing in a global environment. Topics covered will include research, ethics, consumer behavior, product strategy, distribution strategy, promotional strategy and pricing strategy.										
Recommended Prerequisites: WRD-090 or placement in WRD-098										
ONL	BA-223-01	342776	K. HEINIG			\$520.00	\$52.00	\$5.00		\$577.00
BA-224 HUMAN RESOURCE MANAGEMENT, 4 CREDITS										
Focuses on a practical, real world approach to Human Resource Management for line managers and Human Resource Managers. Introduces history and current legal environment of Human Resource Management and applies current practice in the functions of staffing, human resource development, compensation, safety and health, and employee and labor relations in both union and non-union environment.										
ONL LCT	BA-224-01	342779	M. MOISO			\$520.00	\$52.00	\$54.99		\$626.99
Online textbook included in section fees.										
BA-226Z INTRODUCTION TO BUSINESS LAW, 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.										
ONL	BA-226Z-01	342782	M. MOISO			\$520.00	\$52.00	\$69.13		\$641.13
Online textbook included in section fees.										
ONL	BA-226Z-02	347541	M. MOISO			\$520.00	\$52.00	\$69.13		\$641.13
Online textbook included in section fees.										
BA-239 ADVERTISING, 4 CREDITS										
Emphasizes a strategic and integrated approach to promotion where traditional and non-traditional techniques of promotion are explored. The relationship and role of advertising to marketing will be stressed throughout the course.										

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Recommended Prerequisites: BA-101Z, and WRD-090 or placement in WRD-098						
ONL	BA-239-01 342785 J. EICHENBERGER		\$520.00	\$52.00	\$5.00	\$577.00

BA-251 SUPERVISORY MANAGEMENT, 3 CREDITS

Addresses the role and responsibilities of the first-line supervisor or manager. Includes planning and controlling, dealing with change, performance management, leadership, decision-making, communication, and managing teams.

Recommended Prerequisites: WRD-090 or placement in WRD-098

ONL	BA-251-01 342787 K. HEINIG		\$390.00	\$39.00	\$48.75	\$477.75
Online textbook included in section fees.						

BA-256 INCOME TAX ACCOUNTING, 4 CREDITS

Detailed review of the federal tax structure, as it relates to the preparation of individual tax returns, including those with business and investment activities. This course briefly overviews corporate tax returns.

Prerequisites: BA-211Z or financial accounting experience

ONL	BA-256-01 342792 L. LEWIS		\$520.00	\$52.00	\$134.99	\$706.99
Online textbook included in section fees.						

BA-264 PROJECT MANAGEMENT TOOLS, 3 CREDITS

This course introduces students to three tools used in managing projects: Microsoft Teams, Microsoft Planner, and Microsoft Project. Students examine the criteria for selecting the right project management tool for task management, work management, and project management. Students learn how to use these tools for communicating and collaborating with project team members and stakeholders; planning a project, adding project tasks, assigning resources and costs; building a project schedule, moving tasks to different phases, tracking project progress, and properly closing out a project. Students will also gain an understanding of how to share project information across applications using dashboards and reports. In addition, students will briefly explore cloud-based options as alternative project management tools.

Prerequisites: BA-120

ONL	BA-264-01 342793 S. RAHN		\$390.00	\$39.00	\$0.00	\$429.00
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BA-268 APPLIED PROJECT DEMONSTRATION, 3 CREDITS

Students demonstrate the ability to manage a real-world project from initiation through closing. Course deliverables include project scope statement, communication management plan, risk management plan, status report with Gantt chart, and 'Lessons Learned' report and presentation. The project as well as a comprehensive exam will demonstrate knowledge acquired in prerequisite classes required for the Project Management AAS. Required: Student Petition.

Prerequisites: BA-120, BA-125, and BA-127

OC HYB	BA-268-01 342794 T S. RAHN		\$390.00	\$39.00	\$5.00	\$434.00
Required: Student Petition.						

BA-270 SOCIAL MEDIA MARKETING, 4 CREDITS

This is an introductory course that provides an overview of social media and its role in marketing. Nearly everything consumers do is tracked online and this level of marketing analytics is assisting organizations develop a better understanding of consumer and market needs and trends. This course will seek to develop an understanding to how social media compliments marketing.

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Recommended Prerequisites: WRD-090 or placement in WRD-098						
ONL NCT	BA-270-01 342795 C. CHATTERTON		\$520.00	\$52.00	\$5.00	\$577.00

BA-280 BUSINESS/CWE, 2-6 CREDITS

Cooperative work experience. On-the-job experience in a business related to the student's major course of study. Under supervision of instructor and employer. May be repeated for up to 6 credits. Required: Student Petition.

Corequisites: CWE-281

ONL NCT	BA-280-01 342796 B. FORNEY		\$780.00	\$78.00	\$45.00	\$903.00V
Required: Student Petition. Corequisite: Take the following CWE-281-06.						
ONL NCT	BA-280-02 342801 S. RAHN		\$780.00	\$78.00	\$45.00	\$903.00V
Required: Student Petition. Corequisite: Take the following CWE-281-06.						

BA-285 HUMAN RELATIONS IN BUSINESS, 4 CREDITS

Introduces the theory and practical application of human relations at the individual, group, and organizational levels. Emphasizes psychological principles that help build relationships among employees and employers. Includes goal setting, motivation, communication, leadership, conflict management, and individual and group behavior.

ONL LCT	BA-285-01 342802 M. MOISO		\$520.00	\$52.00	\$48.75	\$620.75
Online textbook included in section fees.						
ONL LCT	BA-285-02 342805 T. DANIEL		\$520.00	\$52.00	\$48.75	\$620.75
Online textbook included in section fees.						

Business Technology

BT-120 PERSONAL KEYBOARDING, 2 CREDITS

Basic instruction on electronic alphanumeric keyboard. Provides practice for speed and accuracy within an individual program. Students will also develop the necessary skills to effectively use the Internet, use email, and create simple documents within a Google email profile and/or Microsoft Word.

ONL	BT-120-01 342806 S. SIMMONS		\$260.00	\$26.00	\$10.00	\$296.00
ONL	BT-120-02 342807 S. SIMMONS		\$260.00	\$26.00	\$10.00	\$296.00

BT-121 DATA ENTRY, 1 CREDIT

This course is designed to teach the computer numeric keypad by touch with speed and accuracy using industry standards for data entry. This skill is especially helpful to people in the fields of data entry, accounting, office administration, insurance, banking and finance, and any other work that requires numeric input.

ONL	BT-121-01 342809 S. SIMMONS		\$130.00	\$13.00	\$10.00	\$153.00
ONL	BT-121-02 342815 S. SIMMONS		\$130.00	\$13.00	\$10.00	\$153.00

BT-122 KEYBOARDING SKILLBUILDING, 2 CREDITS

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
Designed to improve keyboarding proficiency using the standard keyboarding by touch method established within BT-120. Speed and accuracy on the keyboard will be further refined. Proper formatting of various types of business communication will be reviewed and established(emails, memos, block-style business letters). Students will utilize Microsoft Word and/or Google documents to create letters and memos.										
Prerequisites: BT-120										
ONL	BT-122-01 342817		S. SIMMONS			\$260.00	\$26.00	\$10.00		\$296.00
ONL	BT-122-02 342829		S. SIMMONS			\$260.00	\$26.00	\$10.00		\$296.00
BT-124 BUSINESS EDITING I, 3 CREDITS										
Course builds business communication skills through the study of the written communication process and the correct use of grammar, spelling, vocabulary, types of written business communication, and basic editing principles.										
Recommended Prerequisites: WRD-090 or placement in WRD-098										
ONL	BT-124-01 342832		S. SIMMONS			\$390.00	\$39.00	\$10.00		\$439.00
BT-125 BUSINESS EDITING II, 3 CREDITS										
This course continues the study of professional editing and writing in a business office. The continued and correct use of acceptable spelling, grammar, and formatting of business documents will be covered in-depth, with increased practice in writing and editing skills in the composition of letters, memos, emails, reports, and presentations. Functional business reports will be covered in relation to written reports and proposals, as well as customer service phone etiquette and the creation of professional presentations for the workplace.										
Prerequisites: BT-124 with a C or better										
ONL	BT-125-01 342834		S. SIMMONS			\$390.00	\$39.00	\$10.00		\$439.00
BT-216 OFFICE PROCEDURES, 4 CREDITS										
Applies critical thinking, problem solving, and collaborative learning skills and knowledge to business office operations. Operational areas include communications, technology, records management, safety, travel, meeting management, mail procedures, reprographics, and career planning.										
Prerequisites: BA-131										
ONL	BT-216-01 342842		B. FORNEY			\$520.00	\$52.00	\$10.00		\$582.00
Chemistry										
CH-104 INTRODUCTORY CHEMISTRY, 5 CREDITS										
A lab transfer course for students in nursing, allied health fields and liberal arts. Topics include: observation, measurement, composition, stoichiometry, atomic structure, periodic table, bonding and nomenclature.										
Corequisites: CH-104L and CH-104S										
Prerequisites: MTH-065 or MTH-098 or placement in MTH-095; and WRD-090 or placement in WRD-098										
ONL	CH-104-40 342877		X. DONG			\$650.00	\$65.00	\$50.00		\$765.00
Each student is required 3 hours of lab time in DJ-242 per week. The available lab hours are W & F: 9 AM- 4 PM, TH 9 AM-8 PM For further information, please e-mail the instructor at george.burgess@clackamas.edu.										
CH-104L INTRODUCTORY CHEMISTRY LAB, 0 CREDIT										
Lab course for CH-104										
Corequisites: CH-104 and CH-104S										
oc	CH-104L-40 342885 TBA		G. BURGESS			\$0.00	\$0.00	\$0.00		\$0.00
Each student is required 3 hours of lab time in DJ-242 per week. The available lab hours are W & F: 9 AM- 4 PM, TH 9 AM-8 PM For further information, please e-mail the instructor at george.burgess@clackamas.edu.										
CH-104S INTRODUCTORY CHEMISTRY SEMINAR, 0 CREDIT										
Seminar course for CH-104										
Corequisites: CH-104 and CH-104L										
oc	CH-104S-40 342887 TH		X. DONG			\$0.00	\$0.00	\$0.00		\$0.00
Each student is required 3 hours of lab time in DJ-242 per week. The available lab hours are W & F: 9 AM- 4 PM, TH 9 AM-8 PM For further information, please e-mail the instructor at george.burgess@clackamas.edu.										
CH-105 INTRODUCTORY CHEMISTRY, 5 CREDITS										
A lab course discussing heat; molecular and ionic interactions in solids, liquids, gases, and solutions; chemical reactions including acid-base, electron transfer, and equilibrium.										
Prerequisites: CH-104										
Corequisites: CH-105L and CH-105S										
ONL	CH-105-40 342904		X. DONG			\$650.00	\$65.00	\$50.00		\$765.00
Each student is required 3 hours of lab time in DJ-242 per week. The available lab hours are W & F: 9 AM- 4 PM, TH 9 AM-8 PM For further information, please e-mail the instructor at george.burgess@clackamas.edu. Corequisite: Take the following CH-105L-40, CH-105S-40.										
CH-105L INTRODUCTORY CHEMISTRY LAB, 0 CREDIT										
Lab course for CH-105										
Corequisites: CH-105 and CH-105S										
oc	CH-105L-40 347581 TBA		G. BURGESS			\$0.00	\$0.00	\$0.00		\$0.00
CH-105S INTRODUCTORY CHEMISTRY SEMINAR, 0 CREDIT										
Seminar course for CH-105										
Corequisites: CH-105 and CH-105L										
oc	CH-105S-40 347559 TH		TBA			\$0.00	\$0.00	\$0.00		\$0.00
Corequisite: Take the following CH-105L-40, CH-105-40.										
CH-112 CHEMISTRY FOR HEALTH SCIENCES, 4 CREDITS										
One-term preparatory chemistry course for students who want to take BI-231 and/or BI-234. Includes measurement; atomic structure; periodic table; bonding; nomenclature; heat; molecular and ionic interactions in solids; liquids and solutions; chemical reactions including acid-base; organic chemistry; and biochemistry.										
Corequisites: CH-112L										
Prerequisites: MTH-065 or MTH-098 with a C or better or placement in MTH-095										
Prerequisites: WRD-090 or placement in WRD-098										
Recommended Corequisite: BI-112										

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2026/VI

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OC	CH-112-01 342914 MW S. MCDONALD This section has an in-person lab requirement. Corequisite: Take 1 of the following CH-112L-01, CH-112L-02.					\$520.00	\$52.00	1-2:20 PM	\$50.00	\$622.00
ONL	CH-112-15 342921 N. DAS					\$520.00	\$52.00		\$50.00	\$622.00
ONL	CH-112-20 342923 D. PAUL					\$520.00	\$52.00		\$50.00	\$622.00
HAR HYB	CH-112-40 342924 TBA D. PAUL					\$520.00	\$52.00		\$50.00	\$622.00
CH-112L CHEMISTRY FOR HEALTH SCIENCES LAB, 0 CREDIT Lab course for CH-112 Corequisites: CH-112										
OC	CH-112L-01 342927 W X. DONG					\$0.00	\$0.00	9-11:50 AM	\$0.00	\$0.00
OC	CH-112L-02 342932 TH S. MCDONALD					\$0.00	\$0.00	1-3:50 PM	\$0.00	\$0.00
HAR	CH-112L-15 342933 TH N. DAS					\$0.00	\$0.00	1-3:50 PM	\$0.00	\$0.00
HAR	CH-112L-20 342936 W D. PAUL					\$0.00	\$0.00	6-8:50 PM	\$0.00	\$0.00
ONL	CH-112L-40 342937 D. PAUL					\$0.00	\$0.00		\$0.00	\$0.00
CH-221SZ GENERAL CHEMISTRY I SEMINAR, 0 CREDIT Seminar course for CH-221Z Corequisites: CH-221Z and CH-227Z										
OC	CH-221SZ-01 342965 W S. MCDONALD					\$0.00	\$0.00	11:30 -12:20 PM	\$0.00	\$0.00
OC	CH-221SZ-40 342968 W D. MYERS					\$0.00	\$0.00	2-2:50 PM	\$0.00	\$0.00
OC	CH-221SZ-41 342970 W R. KHALIFE					\$0.00	\$0.00	1-1:50 PM	\$0.00	\$0.00
CH-221Z GENERAL CHEMISTRY I, 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. Prerequisites: CH-104 and CH-105, or CH-150, with a C or better; or a year of high school chemistry within five academic years of beginning CH-221Z (passed all terms with C or higher) Corequisites: CH-227Z and CH-221SZ										
OC	CH-221Z-01 345101 MW S. MCDONALD					\$520.00	\$52.00	10-11:20 AM	\$0.00	\$572.00
ONL	CH-221Z-40 345102 D. MYERS This section has an in-person lab and seminar requirement.					\$520.00	\$52.00		\$0.00	\$572.00
ONL	CH-221Z-41 345103 R. KHALIFE This section has an in-person lab and seminar requirement.					\$520.00	\$52.00		\$0.00	\$572.00
CH-222SZ GENERAL CHEMISTRY II SEMINAR, 0 CREDIT Seminar course for CH-222Z Corequisites: CH-222Z and CH-228Z										
OC	CH-222SZ-01 342994 W D. MYERS Corequisite: Take 2 of the following CH-222Z-01, CH-228Z-01, CH-228Z-02.					\$0.00	\$0.00	11:30 -12:20 PM	\$0.00	\$0.00

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OC	CH-222SZ-02 342999 W D. MYERS Corequisite: Take 2 of the following CH-222Z-01, CH-228Z-01, CH-228Z-02.					\$0.00	\$0.00	1-1:50 PM	\$0.00	\$0.00
OC	CH-222SZ-20 343002 TH J. DU BOULAY					\$0.00	\$0.00	6-6:50 PM	\$0.00	\$0.00
OC	CH-222SZ-40 343003 F J. DU BOULAY Corequisite: Take 2 of the following CH-228Z-01, CH-228Z-02, CH-222Z-01.					\$0.00	\$0.00	1-1:50 PM	\$0.00	\$0.00

CH-222Z GENERAL CHEMISTRY II, 4 CREDITS

Explores and applies principles presented in CH-221Z to the study of the solid, liquid, and gaseous states of matter. Principles of stoichiometry, thermochemistry, kinetics, and foundational equilibrium are explored and applied to the study of aqueous and gas-phase chemical reactions. CH-222Z is a lecture course; CH-228Z is the laboratory component.

Prerequisites: CH-221Z with a C or better

Corequisites: CH-228Z and CH-222SZ

OC	CH-222Z-01 345107 MW D. MYERS Corequisite: Take 2 of the following CH-228Z-01, CH-228Z-02, CH-222SZ-01, CH-222SZ-02.					\$520.00	\$52.00	10-11:20 AM	\$0.00	\$572.00
ONL	CH-222Z-20 345108 J. DU BOULAY					\$520.00	\$52.00		\$0.00	\$572.00
ONL	CH-222Z-40 345109 J. DU BOULAY This section has an in-person lab and seminar requirement.					\$520.00	\$52.00		\$0.00	\$572.00

CH-227Z GENERAL CHEMISTRY I LABORATORY, 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.

Corequisites: CH-221Z and CH-221SZ

OC	CH-227Z-01 345104 T S. MCDONALD					\$130.00	\$13.00	9-11:50 AM	\$50.00	\$193.00
OC	CH-227Z-40 345105 T D. MYERS					\$130.00	\$13.00	1-3:50 PM	\$50.00	\$193.00
OC	CH-227Z-41 345106 W R. KHALIFE					\$130.00	\$13.00	2-4:50 PM	\$50.00	\$193.00

CH-228Z GENERAL CHEMISTRY II LABORATORY, 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.

Prerequisites: CH-221Z or CH-227Z with a C or better

Corequisites: CH-222Z and CH-222SZ

OC	CH-228Z-01 345110 TH D. MYERS Corequisite: Take 2 of the following CH-222Z-01, CH-222SZ-01, CH-222SZ-02.					\$130.00	\$13.00	9-11:50 AM	\$50.00	\$193.00
OC	CH-228Z-02 345111 TH D. MYERS Corequisite: Take 2 of the following CH-222Z-01, CH-222SZ-01, CH-222SZ-02.					\$130.00	\$13.00	1-3:50 PM	\$50.00	\$193.00
OC	CH-228Z-20 345112 TH J. DU BOULAY					\$130.00	\$13.00	7-9:50 PM	\$50.00	\$193.00
OC	CH-228Z-40 345113 F J. DU BOULAY					\$130.00	\$13.00	2-4:50 PM	\$50.00	\$193.00

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CH-242	ORGANIC CHEMISTRY II, 5 CREDITS									
Second term of transfer sequence meeting organic chemistry requirement for premedical, dental, veterinary, pharmacy, chiropractic medicine, chemical engineering and biology majors.										
Prerequisites: CH-241										
Corequisites: CH-242L and CH-242S										
oc	CH-242-01	343005 MW	G. BURGESS			\$650.00	\$65.00	1-2:20 PM	\$50.00	\$765.00
CH-242L	ORGANIC CHEMISTRY I LAB, 0 CREDIT									
Lab course for CH-242										
Corequisites: CH-242 and CH-242S										
oc	CH-242L-01	343009 F	G. BURGESS			\$0.00	\$0.00	9-11:50 AM	\$0.00	\$0.00
CH-242S	ORGANIC CHEMISTRY II SEMINAR, 0 CREDIT									
Seminar course for CH-242										
Corequisites: CH-242 and CH-242L										
oc	CH-242S-01	343013 W	G. BURGESS			\$0.00	\$0.00	2:30 -3:20 PM	\$0.00	\$0.00
College and Career Guidance										
EL-103	TAKING EFFECTIVE NOTES, 1 CREDIT									
Designed to help students develop effective note-taking skills. Several note-taking systems are introduced and practiced.										
Prerequisites: Placement in WRD-090 or higher										
ONL	EL-103-13	342963	B. MALONEY			\$130.00	\$13.00		\$0.00	\$143.00
EL-111	COLLEGE STUDY SKILLS, 3 CREDITS									
Emphasizes time management, listening/notetaking, testing skills/anxiety, college resources, learning styles, reading strategies, textbook reading, and concentration skills.										
Prerequisites: Placement in WRD-090 or higher										
oc HYB	EL-111-01	342966 T	B. MALONEY			\$390.00	\$39.00	1-2:50 PM	\$15.00	\$444.00
Meets: 1/19-3/21.										
HD-102	SERVICE LEARNING EXPERIENCE, 1-6 CREDITS									
Provides students with a service learning experience in a community setting. Students complete 30-180 hours of volunteer work and participate in ongoing journaling as well as reflection exercises to connect volunteer work with an area of study. May be repeated for up to 6 credits. Required: Student Petition.										
ONL	HD-102-01	343093	J. GINSBURG			\$780.00	\$78.00		\$0.00	\$858.00V
Required: Student Petition.										
HD-140	CAREER EXPLORATION, 3 CREDITS									
Students use information about themselves (values, interests, personality and skills) and information about the world of work (careers and industries) to explore and make long term career decisions.										
ONL	HD-140-01	343098	L. MARTINEZ			\$390.00	\$39.00		\$10.00	\$439.00
HD-157	PROCRASTINATION & TIME MANAGEMENT, 1 CREDIT									
Provides students the opportunity to study their procrastination habits and time management patterns. Course focuses on components of time organization, choices regarding procrastination, and methods to improve overall use of time.										
ONL	HD-157-01	345513	T. BOYLE- GALESTANTZ			\$130.00	\$13.00		\$10.00	\$153.00
Meets: 1/26-2/9.										
HD-202	LIFE TRANSITIONS, 3 CREDITS									
Examines process and stages of life transitions. Helps re-entry adults identify personal strengths and barriers related to success in education and employment. Offers opportunities to practice interpersonal skills. Provides information about CCC campus and community resources which can assist students in reaching their goals.										
Corequisites: HD-208										
oc	HD-202-01	343120 T	L. NIELSON			\$0.00	\$0.00	9-11:50 AM	\$40.00	\$40.00
Meets: 1/20-3/17.										
HD-208	CAREER & LIFE PLANNING, 3 CREDITS									
Helps re-entry adults identify interests, abilities, values, and transferable skills and apply this information to goal setting and career decisions. Students identify and explore options for training, education, and employment. Covers job search skills such as interviewing, resume writing, and developing a career portfolio. Each student develops an action plan identifying goals and next steps.										
Corequisites: HD-202										
oc	HD-208-01	343126 TH	C. SIMS			\$0.00	\$0.00	9-11:50 AM	\$40.00	\$40.00
Meets: 1/22-3/19.										
HD-221	LEADERSHIP AND BUILDING COMMUNICATIONS SKILLS, 2 CREDITS									
Develops leadership skills with an emphasis on navigating challenging conversations. Addresses finding common vision and goals, managing conflict, and collaboration within interpersonal communication. Promotes development of equitable spaces for inclusive conversations. Required for some members of CCC's Associated Student Government. Highly recommended for Peer Assistants, New Student Mentors, and work-study students in Student Services departments. Also recommended for club leaders.										
oc	HD-221-03	343137 M	M. BAKER			\$260.00	\$26.00	3-4:50 PM	\$0.00	\$286.00
REM	HD-221-04	343139 TH	J. GINSBURG			\$260.00	\$26.00	8-9:50 AM	\$0.00	\$286.00
Communication Studies										
COMM-100Z	INTRODUCTION TO COMMUNICATION, 4 CREDITS									
COMM-100Z is a survey course offering an overview of the communication discipline that emphasizes the development of best communication practices in different contexts.										
oc LCT	COMM-100Z-01	342264 TTH	L. HANN			\$520.00	\$52.00	10-11:50 AM	\$0.00	\$572.00
oc NCT	COMM-100Z-02	342268 TTH	A. SAMBOR			\$520.00	\$52.00	1-2:50 PM	\$0.00	\$572.00

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OC NCT	COMM-100Z-03 L. HANN	342270 MW		3-4:50 PM	
		\$520.00	\$52.00	\$0.00	\$572.00
COMM-111Z	PUBLIC SPEAKING, 4 CREDITS				
COMM-111Z emphasizes developing communication skills by examining and demonstrating how self-awareness, audience, content, and occasion influence the creation and delivery of speeches and presentations.					
Prerequisites: WRD-098 or placement in WR-121Z					
Recommended Prerequisite or Corequisite: FYE-101					
OC NCT	COMM-111Z-01 K. HUGHES	342272 MW		8-9:50 AM	
		\$520.00	\$52.00	\$20.00	\$592.00
REM NCT	COMM-111Z-02 J. SMITH	342281 MW		8-9:50 AM	
		\$520.00	\$52.00	\$20.00	\$592.00
OC NCT	COMM-111Z-03 A. SAMBOR	342283 TTH		8-9:50 AM	
		\$520.00	\$52.00	\$20.00	\$592.00
REM NCT	COMM-111Z-04 K. HUGHES	342285 TTH		8-9:50 AM	
		\$520.00	\$52.00	\$20.00	\$592.00
OC NCT	COMM-111Z-05 K. HUGHES	342288 MW		10-11:50 AM	
		\$520.00	\$52.00	\$20.00	\$592.00
OC NCT	COMM-111Z-06 A. SAMBOR	342291 MW		10-11:50 AM	
		\$520.00	\$52.00	\$20.00	\$592.00
REM NCT	COMM-111Z-07 J. SMITH	342294 MW		10-11:50 AM	
		\$520.00	\$52.00	\$20.00	\$592.00
OC NCT	COMM-111Z-08 K. MCCONNELL	342296 TTH		10-11:50 AM	
		\$520.00	\$52.00	\$20.00	\$592.00
OC NCT	COMM-111Z-09 A. SAMBOR	342298 TTH		10-11:50 AM	
		\$520.00	\$52.00	\$20.00	\$592.00
REM NCT	COMM-111Z-10 K. HUGHES	342301 TTH		10-11:50 AM	
		\$520.00	\$52.00	\$20.00	\$592.00
OC NCT	COMM-111Z-11 L. HANN	342303 MW		1-2:50 PM	
		\$520.00	\$52.00	\$20.00	\$592.00
OC	COMM-111Z-12 L. HANN	345510 TTH		1-2:50 PM	
		\$520.00	\$52.00	\$20.00	\$592.00
REM	COMM-111Z-14 A. MOSEY	345511 TTH		6-7:50 PM	
		\$520.00	\$52.00	\$20.00	\$592.00
HAR NCT	COMM-111Z-15 J. NETZER	342308 MW		6-7:50 PM	
		\$520.00	\$52.00	\$20.00	\$592.00
HAR NCT	COMM-111Z-16 J. HULT	342306 TTH		1-2:50 PM	
		\$520.00	\$52.00	\$20.00	\$592.00

COMM-212 MASS MEDIA & SOCIETY, 4 CREDITS

This course takes students through a critical study of the production and consumption of mass media, including television, radio, books, film, news, advertising and the internet. Students also examine the economic and social organization of mass media, the growth of new media technologies, and the relationship between media and the public.

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Section No Instructor		Tuition	Fee	Crs. Fee	
Recommended Prerequisites: WRD-098 or placement in WR-121Z					
ONL LCT	COMM-212-01 K. DOSS	342310			
		\$520.00	\$52.00	\$10.00	\$582.00
COMM-218Z	INTERPERSONAL COMMUNICATION, 4 CREDITS				
COMM-218Z increases the knowledge and use of competent communication skills to better understand oneself, others, and the role of communication in interpersonal relationships.					
Recommended Prerequisites: WRD-098 or placement in WR-121Z					
OC NCT	COMM-218Z-01 M. WILLIAMS	342313 MW		1-2:50 PM	
		\$520.00	\$52.00	\$0.00	\$572.00
HAR NCT	COMM-218Z-30 J. HULT	342317 TTH		10-11:50 AM	
		\$520.00	\$52.00	\$0.00	\$572.00
COMM-280	SPEECH/CWE, 2-6 CREDITS				
Cooperative work experience. Provides students with on-the-job experience in the field of communications. Required: Student Petition.					
Corequisites: CWE-281					
ONL NCT	COMM-280-01 K. HUGHES	342322			
		\$780.00	\$78.00	\$45.00	\$903.00V
Required: Student Petition.					

Computer Science

CS-120 SURVEY OF COMPUTING, 4 CREDITS

A computer competency course to familiarize students with computer concepts, software applications and the implications of living in the digital age. Introduces students to computer concepts, including, but not limited to the Microsoft Windows environment, Microsoft Office Applications, hardware terminology, social media and the Internet.

Prerequisites: WRD-098 or placement in WR-121Z

OC HYB	CS-120-01 M. SORRENTINO	342327 W M		10-11:50 AM 10-11:50 AM	
		\$520.00	\$52.00	\$179.99	\$751.99
Section meets Mondays remote via Zoom from 10:00-11:50am. Section meets in-person on campus on Wednesdays from 10:00-11:50am. Office 2021 version used. Online textbook included in section fees.					

CS-125H HTML & WEB SITE DESIGN, 4 CREDITS

Hands-on approach to planning, design, and developing published web sites using HTML tags in a text editor. The class focuses on basic HTML coding using HTML 5 models. Hyperlinks, images, cascading style sheets, forms, accessibility and design principles will be covered, as well as tools such as FTP clients, accessibility checkers, and validators.

Prerequisites: BA-131 or CS-120 or higher or placement into CS-125H

ONL	CS-125H-30 M. SORRENTINO	342338			
		\$520.00	\$52.00	\$20.00	\$592.00

CS-133J FRONT-END JAVASCRIPT I, 4 CREDITS

Design, programming, testing of scripted web pages using JavaScript for client-side applications and to call PHP-based server-side applications. Introduction to fundamental concepts of interactive web pages and server-side connectivity. Covers the Document Object Model (DOM) and programming constructs like variables, operators, functions, control structures, and exception handling. Emphasis on creating and consuming object literals and JSON objects.

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2026/WI

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Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total

Prerequisites: CS-125H

OC HYB	CS-133J-01	342339 T			1-2:50 PM	
		TH			1-2:50 PM	
	D. CARINO		\$520.00	\$52.00	\$20.00	\$592.00
Section meets Tuesdays remote via Zoom from 1:00-2:50pm. Section meets in-person on campus on Thursdays from 1:00-2:50pm.						

CS-135I ADVANCED WEB DESIGN, 4 CREDITS

Plan and publish a professional, standards-based, accessible web site via a variety of tools. Complete market and user-needs analysis to best target site content and design. Create a graphical web site mock-up, then use CSS (including a framework and pre-processors), scripts, and multimedia to realize site goals. Emphasizes professional design techniques.

Prerequisites: CS-125H

OC HYB NCT	CS-135I-01	342343 W			1-2:50 PM	
		M			1-2:50 PM	
	D. CARINO		\$520.00	\$52.00	\$20.00	\$592.00
Section meets Mondays remote via Zoom from 1:00-2:50pm. Section meets in-person on campus on Wednesdays from 1:00-2:50pm.						

CS-151 NETWORKING 1, 4 CREDITS

This course introduces students to networking architectures, models, protocols, and components. These components facilitate the connection of users, devices, applications, and data through the internet and across modern computer networks. This course, along with CS-152 and CS-153, covers the topics of the Cisco CCNA certification exam.

Prerequisites: CS-140 or CS-160, or Student Petition

OC HYB NCT	CS-151-01	342349 T			1-2:50 PM	
		TH			1-2:50 PM	
	R. CARINO		\$520.00	\$52.00	\$20.00	\$592.00
Section meets Tuesdays remote via Zoom from 1:00-2:50pm. Section meets in-person on campus on Thursdays from 1:00-2:50pm.						

CS-160 COMPUTER SCIENCE ORIENTATION, 4 CREDITS

Examines foundational computing subjects used in Computer Science and Information Technology. Topics include computer architecture, electronic logic, data representation, networking, algorithms and programming, which are used in successive Computer Science courses. Information about degrees in Computer Science and Information Technology is also covered.

Recommended Prerequisites: MTH-060 or placement in MTH-065

ONL NCT	CS-160-01	342351				
	R. ALBERS		\$520.00	\$52.00	\$20.00	\$592.00
ONL NCT	CS-160-02	342353				
	R. ALBERS		\$520.00	\$52.00	\$20.00	\$592.00

CS-161 COMPUTER SCIENCE I, 4 CREDITS

Introduction to fundamental concepts of structured programming, including problem solving, algorithm and program design, data types, loops, control structures, subroutines, and arrays. Learn to write structured programs in a high level programming language.

Prerequisites: MTH-111Z or placement in MTH-112Z, or 4 years high school math

OC	CS-161-01	342355 TTH			10-11:50 AM	
	J. MILLER		\$520.00	\$52.00	\$20.00	\$592.00
ONL	CS-161-02	342357				
	J. MILLER		\$520.00	\$52.00	\$20.00	\$592.00

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Distance Education Notification:
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REM: Remote (w/ scheduled meetings)
HYB: In-person plus online work

Course No	Course Title, Credits					
Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total

ONL	CS-161-03	342358				
	J. MILLER		\$520.00	\$52.00	\$20.00	\$592.00
ONL	CS-161-04	347542				
	J. MILLER		\$520.00	\$52.00	\$20.00	\$592.00

CS-162 COMPUTER SCIENCE II, 4 CREDITS

Introduces fundamental concepts of object oriented programming and dynamic memory management. Covers objects, classes, pointers, dynamic memory allocation, linked lists, and program correctness, verification, and testing.

Prerequisites: CS-161

OC	CS-162-01	342359 MW			1-2:50 PM	
	R. ALBERS		\$520.00	\$52.00	\$20.00	\$592.00
ONL	CS-162-02	342361				
	R. ALBERS		\$520.00	\$52.00	\$20.00	\$592.00

CS-181 CMS WEB DEVELOPMENT, 4 CREDITS

Explores creating dynamic and interactive websites via the use of a current content management systems (CMS). Includes installation of CMS/database, working with templates, creating efficient site navigation, enhancing sites using components, modules, plugins, and extensions, including shopping cart utilities and the creation of custom themes.

Prerequisites: CS-125H

OC HYB	CS-181-01	342363 F			3-4:20 PM	
	D. EDGING		\$520.00	\$52.00	\$20.00	\$592.00

CS-182 INTRO TO CLOUD COMPUTING, 4 CREDITS

This course is an overview of foundational cloud computing concepts and practices. Topics include compute, storage, connectivity, security, and automation on cloud provider platforms. This course covers the topics of the CompTIA Cloud+ certification exam.

Prerequisites: CS-151 and CS-240W

Recommended Prerequisites: CS-153 and CS-240L

OC HYB	CS-182-01	347677 W			10-11:50 AM	
		M			10-11:50 AM	
	D. CARINO		\$520.00	\$52.00	\$20.00	\$592.00
Section meets Mondays remote via Zoom from 10:00-11:50am. Section meets in-person on campus on Wednesdays from 10:00-11:50am.						

CS-205 SYSTEM PROGRAMMING AND ARCHITECTURE, 4 CREDITS

Introduces how high-level software runs on a computer system. Covers C programming and the assembly that C code becomes. Presents the fundamentals of computer architecture and how instructions and data are represented at the machine level. Provides experience analyzing compiled code to build necessary skills for future work in cybersecurity, operating systems, compilers, and other CS topics involving low-level computation.

Prerequisites: CS-162

OC	CS-205-01	342365 MW			10-11:50 AM	
	R. ALBERS		\$520.00	\$52.00	\$20.00	\$592.00

CS-228 COMPUTER OS MAINTENANCE & REPAIR, 4 CREDITS

An in-depth course in operating system maintenance and troubleshooting. Covers configuration, maintenance, and troubleshooting of desktop and mobile operating systems, the fundamentals of cloud computing, and client network configuration and troubleshooting. This course, in conjunction with CS-227, covers the topics on the CompTIA A+ certification exam.

Prerequisites: CS-227

Other Coding Translations:
TBA: To be arranged: contact department first class
VAR: Variable credit class

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Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total	Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
Instructor	Tuition	Fee	Crs. Fee				Instructor	Tuition	Fee	Crs. Fee			
OC	CS-228-01	342368 MW			9-11:50 AM								
	E. MCBRIDE	\$520.00	\$52.00	\$20.00		\$592.00							
CS-234W FULL-STACK WEB DEVELOPMENT II, 4 CREDITS													
Students will complete the stack by exploring a user-interface framework to create interactive, reusable, data-connected web components using React, JSX, and a variety of React Frameworks. Students will complete a MERN (MongoDb, Express, React, Node) portfolio application.													
Prerequisites: CS-233W													
OC HYB	CS-234W-01	347678 W			10-11:50 AM								
		M			10-11:50 AM								
	D. CARINO	\$520.00	\$52.00	\$20.00		\$592.00							
Section meets Mondays remote via Zoom from 10:00-11:50am. Section meets in-person on campus on Wednesdays from 10:00-11:50am.													
CS-240W WINDOWS DESKTOP ADMINISTRATION, 3 CREDITS													
Covers the fundamentals of installing, configuring, troubleshooting, and supporting the Windows operating system. Topics include: installation, managing disks and file systems, file access security, users, profiles and policies, groups, security, backup, remote access, printing, and troubleshooting. This course covers the topics of the Microsoft Configuring Windows Devices certification exam.													
Prerequisites: CS-140													
OC HYB	CS-240W-01	342372 T			10-11:50 AM								
		TH			10-11:50 AM								
	R. CARINO	\$390.00	\$39.00	\$20.00		\$449.00							
Section meets Tuesdays remote via Zoom from 10:00-11:50am. Section meets in-person on campus on Thursdays from 10:00-11:50am.													
CS-250 DISCRETE STRUCTURES I, 4 CREDITS													
Students will be introduced to discrete structures and techniques for computing. The course, which is the first in the two-term sequence, aims to convey the skills in discrete mathematics that are used in the study and practice of computer science. Topics include: Sets; Graphs and trees; Functions: properties, recursive definitions, solving recurrences; Relations: properties, equivalence, partial order; Proof techniques: inductive proof; Counting techniques and discrete probability.													
Prerequisites: MTH-251Z													
OC	CS-250-01	342374 TTH			3-4:50 PM								
	J. KUOHA	\$520.00	\$52.00	\$20.00		\$592.00							
CS-275 DATABASE DESIGN, 3 CREDITS													
Focuses on design of a relational database management systems (RDMS). Topics will include database development using the a) requirement, b) design, c) implementation model, database theory from flat table design to relational systems, entity-relationship models, one-to-one, one-to-many, and many-to-many relationships, referential integrity, normalization of tables, database programming and querying with SQL, and database security. Although other platforms may be demonstrated, the majority of work will be done with MySQL Server.													
Prerequisites: CS-120 or placement into CS-275													
OC HYB	CS-275-01	342377 T			10-11:50 AM								
		TH			10-11:50 AM								
	D. CARINO	\$390.00	\$39.00	\$20.00		\$449.00							
Section meets Tuesdays remote via Zoom from 10:00-11:50am. Section meets in-person on campus on Thursdays from 10:00-11:50am.													
CS-280 COMPUTER SCIENCE/CWE, 1-6 CREDITS													
Cooperative work experience. This course provides supervised work experience to supplement the academic classroom environment. Work examples include user support, work with computer applications or programming languages, installation or management PC computer systems, and developing websites. May be repeated for up to 9 credits. Required: Student Petition.													
Corequisites: CWE-281													
ONL NCT	CS-280-01	342380											
	J. MILLER	\$780.00	\$78.00	\$45.00		\$903.00V							
Required: Student Petition. Restricted to Computer Science students. Corequisite: Take the following CWE-281-05.													
CS-284 NETWORK SECURITY, 3 CREDITS													
This course provides an introduction to the core security skills needed for monitoring, detecting, investigating, analyzing and responding to security events, thus protecting systems and organizations from cybersecurity risks, threats and vulnerabilities. This course covers the topics of the Cisco CyberOps Associate certification exam.													
Prerequisites: CS-151													
Recommended Prerequisites: CS-240L and CS-240W													
ONL	CS-284-30	342384											
	R. CARINO	\$390.00	\$39.00	\$20.00		\$449.00							
Computer-Aided Drafting Technology													
<i>Call 503-594-3318 for more information, or contact Advising, 503-594-3475.</i>													
CDT-103 COMPUTER-AIDED DRAFTING I, 3 CREDITS													
Introduction to drafting applications using AutoCAD. Instruction includes problem solving, drawing layout, orthographic multi-view projection, line types, geometric construction and current drafting techniques. Use industry standards for CAD drawing, editing, file management, dimensions and notes.													
Recommended Prerequisites: CDT-102													
OC HYB	CDT-103-01	342863 TTH			9-11:50 AM								
	TBA	\$390.00	\$39.00	\$153.75		\$582.75							
CDT-108A INTRODUCTION TO SOLIDWORKS, 3 CREDITS													
This course is an introduction to the SolidWorks parametric mechanical software. Students will design 3D solid parts, sheet metal parts and assemblies, and develop 2D documentation from them.													
REM	CDT-108A-01	342869 TTH			5-7:50 PM								
	M. ROTUNDO	\$390.00	\$39.00	\$153.75		\$582.75							
CDT-130 INTRODUCTION TO FUSION, 2 CREDITS													
This course is an introduction to parametric modeling in Autodesk Fusion. Students will design 3-D solid parts and assemblies and then develop 2-D drawing and CNC machining processes from these models.													
OC	CDT-130-01	342872 MW			12-1:50 PM								
	J. CARLSTON	\$260.00	\$26.00	\$0.00		\$286.00							
Cooperative Work Experience													

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Instructor		Tuition	Fee	Crs. Fee	Total	

All students must register for the appropriate CWE course and a CWE Seminar as listed in the following section - Cooperative Work Experience Seminar. Instructor approval is required for all CWE courses. Note: day and time of CWE classes are arranged according to the student's work hours on the job. Students may earn a maximum of 6 CWE credits per term or a maximum of 12 CWE credits per year. Visit the department website at <https://www.clackamas.edu/cwe> or call 503-594-3511 for more information.

CWE-281 COOPERATIVE WORK EXPERIENCE SEMINAR, 0 CREDIT

The seminar provides an opportunity to develop the career management skills necessary to obtain, sustain, and advance in employment. Prepares students for career success. Variable Hours: 11-16 hours.

Corequisites: Program specific CWE course

REM	CWE-281-01	342189 T		11:30 -12:20 PM		
	M. LAFORCE	\$0.00	\$0.00	\$0.00	\$0.00	
	Restricted to Water Environmental Technology students. Contact: laforce@clackamas.edu or 503-594-3148 for more information.					
ONL	CWE-281-05	342190				
	J. MILLER	\$0.00	\$0.00	\$0.00	\$0.00	
	Required: Student Petition. Restricted to Computer Science students. Contact: jen.miller@clackamas.edu or 503-594-3138.					
ONL	CWE-281-06	342191				
	J. STAPLETON	\$0.00	\$0.00	\$0.00	\$0.00	

Criminal Justice

For more information on Criminal Justice, Corrections, credit for completion of D.P.S.S.T. or law enforcement academies contact Joanna Crawford at joanna.crawford@clackamas.edu or 503-594-6229.

CJA-101 CRIMINOLOGY, 4 CREDITS

Examines the social problem of crime, including the process of making and breaking laws as well as society's reaction to the phenomenon. Provides a multidisciplinary study of the causes of crime, including its distribution across social strata and demographics. Focuses on theories of criminal behavior and specific types of crime.

ONL LCT	CJA-101-01	342174				
	T. MUSGRAVE	\$520.00	\$52.00	\$0.00	\$572.00	
ONL LCT	CJA-101-02	342175				
	A. MCMILLAN	\$520.00	\$52.00	\$0.00	\$572.00	

CJA-120 INTRODUCTION TO COURTS, 3 CREDITS

Studies the judicial process from arrest through appeals, including search and seizure; interrogation; roles of defense attorneys, prosecutors, juries, grand juries, and judges; plea bargaining and guilty pleas; rights of criminal defendants at trial; appeals and habeas corpus.

ONL LCT	CJA-120-01	342177				
	S. HEALY	\$390.00	\$39.00	\$0.00	\$429.00	

CJA-122 CRIMINAL LAW, 4 CREDITS

Course No	Course Title, Credits					
Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time			
Instructor		Tuition	Fee	Crs. Fee	Total	

This course examines the elements, purpose and functions of criminal, traffic, juvenile and liquor laws. Studies historical development, philosophy of law, and constitutional provisions. Examines definition and classification of crime, application of administration of justice, legal research, study of case law, methodology and concepts of law as a social force.

ONL	CJA-122-01	347573				
	T. MUSGRAVE	\$520.00	\$52.00	\$0.00	\$572.00	

CJA-134 CORRECTIONAL INSTITUTIONS, 3 CREDITS

Analyzes prisons, jails and other correctional institutions. Discusses punishment history and rationale. Identifies the functions of the custodial staff and describes institutional procedures: reception, classification, program assignment and release. Studies prison management systems and examines juvenile facilities.

ONL LCT	CJA-134-01	342178				
	G. RONNING	\$390.00	\$39.00	\$0.00	\$429.00	

CJA-170 CAREERS IN CRIMINAL JUSTICE, 3 CREDITS

Prepares students for pursuing a career in the Criminal Justice field. Explores careers in the criminal justice system, including law enforcement, the practice of law, courts, corrections, and private security. Addresses hiring processes, promotions, and workplace ethics. Students will begin creating an e-portfolio. As part of the e-portfolio process, students will analyze first year CJA courses and second year fall term CJA courses for assessment purposes. Provides information on choosing Cooperative Work Experience or Service learning placement in preparation for Criminal Justice Capstone course.

HAR HYB LCT	CJA-170-01	342179 M			8-8:50 AM	
	T. MUSGRAVE	\$390.00	\$39.00	\$0.00	\$429.00	

CJA-201 JUVENILE DELINQUENCY, 4 CREDITS

Surveys the nature, extent, and causes of delinquent behavior focusing on theories of criminal behavior as they apply to juveniles. Studies historical and contemporary perspectives on juvenile offenders. Provides a multidisciplinary study of the causes of juvenile delinquency. Describes laws, enforcement, court, and correctional procedures within the juvenile system, and explores the differences between adult and juvenile practices.

ONL	CJA-201-01	342180				
	G. RONNING	\$520.00	\$52.00	\$0.00	\$572.00	

CJA-203 CRISIS INTERVENTION, 3 CREDITS

Examines crisis intervention as it applies to emergency service workers. Includes the psychodynamics of family crisis; alcohol/drug related problems; suicide; sexual assault victims; domestic violence; mentally disturbed individuals; neglected, battered, and abused children.

HAR HYB LCT	CJA-203-01	342181 M			10:30 -11:50 AM	
	T. MUSGRAVE	\$390.00	\$39.00	\$0.00	\$429.00	

CJA-211 CRIMINAL INVESTIGATION II, 3 CREDITS

Continues the study and application of investigative techniques for specific offenses, including: death investigations, domestic violence, elder abuse and sexual offenses. Identifies similarities, differences, and elements of proof needed under state statutes and documentation of investigations through comprehensive reports.

Prerequisites: CJA-210 with a C or better

HAR HYB	CJA-211-01	345571 M			9-10:20 AM	
	T. MUSGRAVE	\$390.00	\$39.00	\$0.00	\$429.00	

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	Instructor		Tuition	Fee	Crs. Fee			Instructor		Tuition	Fee	Crs. Fee	
CJA-215	SEXUAL ABUSE AND HUMAN TRAFFICKING, 3 CREDITS						HAR	DA-102L-01	342194 M			9-11:50 AM	
This course will explore various aspects of sexual abuse cases and human trafficking in the state of Oregon and the U.S., including discussion of societal and historical perspectives, responses to victim trauma, sexual offenders and law enforcement response to these crimes.								K. HIATT		\$130.00	\$13.00	\$0.00	\$143.00
								A. KOBYLINSKY					
							HAR	DA-102L-02	342195 M			1-3:50 PM	
								K. HIATT		\$130.00	\$13.00	\$0.00	\$143.00
								A. KOBYLINSKY					
HAR	CJA-215-01	347574 W			6-8:50 PM								
	S. HEALY		\$390.00	\$39.00	\$0.00	\$429.00							
CJA-222	PROCEDURAL LAW, 3 CREDITS							DA-105	CLINICAL PROCEDURES II, 2 CREDITS				
This course discusses the constitutional and statutory provisions related to arrest, search and seizure. The course includes use of deadly force, admissions, interrogations, plain view limitations, law of stop and frisk, and officer testimony.							A foundational course in preventive dentistry. Examines the study of preventive education, oral hygiene instruction, nutrition, fluoride agents, coronal polishing and sealants. The continuation of oral evacuation and isolation techniques will also be covered.						
Prerequisites: CJA-122 with a C or better							Required: Acceptance into Dental Assistant program						
							Prerequisites: DA-104 with a C or better						
							Corequisites: DA-105L						
HAR	CJA-222-01	342183 T			6-8:50 PM		ONL	DA-105-01	342196				
	S. HEALY		\$390.00	\$39.00	\$0.00	\$429.00		M. BUTKOVICH		\$260.00	\$26.00	\$225.00	\$511.00
CJA-280	CRIMINAL JUSTICE/CORRECTIONS/CWE, 2-6 CREDITS						DA-105L	CLINICAL PROCEDURES II LAB, 1 CREDIT					
Cooperative work experience. Supervised experience in criminal justice, corrections, juvenile corrections, or related occupations. May be repeated for up to 6 credits. Required: Student Petition.							Further the development of chairside skills and introduces the application of preventive procedures such as coronal polishing, fluoride treatment and oral hygiene instruction. Basic knowledge in the application of dental sealants is also taught. Lab skills such as the placement and removal of matrix retainers and rubber dams are taught to provide preparation for chairside dental assisting functions. Aseptic procedures are practiced during all lab skills.						
Prerequisites: CJA-170							Required: Acceptance into Dental Assistant program						
Corequisites: CWE-281							Prerequisites: DA-104L with a C or better						
ONL	CJA-280-01	342184						DA-105L-01	342197 F			9-11:50 AM	
	G. RONNING		\$780.00	\$78.00	\$45.00	\$903.00V		A. KOBYLINSKY		\$130.00	\$13.00	\$0.00	\$143.00
Required: Student Petition. Corequisite: Take the following CWE-281-06.								Lunch and Learn Friday 1/16 from 12-1. Lunch provided.					
							HAR	DA-105L-02	342198 F			1-3:50 PM	
								A. KOBYLINSKY		\$130.00	\$13.00	\$0.00	\$143.00
								Lunch and Learn Friday 1/16 from 12-1. Lunch provided.					
DA-102	DENTAL RADIOLOGY II, 2 CREDITS												
Alternative radiographic techniques are discussed as students develop their knowledge in the following areas: bisecting, extra-oral radiography, techniques for children, and patients with special needs. This course provides an in-depth study of the purpose and uses of panoramic imaging, digital imaging, three-dimensional digital imaging, and occlusal examinations. Identification of radiographic interpretation and infection control procedures will also be covered.							Required: Acceptance into Dental Assistant program						
Required: Acceptance into Dental Assistant program							Prerequisites: DA-101 with a C or better						
Prerequisites: DA-101 with a C or better							Corequisites: DA-102L						
HAR	DA-102-01	342193 TH			12-1:50 PM								
	K. HIATT		\$260.00	\$26.00	\$310.00	\$596.00							
DA-102L	DENTAL RADIOLOGY II LAB, 1 CREDIT							DA-108	DENTAL MATERIALS II, 2 CREDITS				
Knowledge and skills in alternative radiographic techniques are taught as students demonstrate exposure techniques and corrective measures of various alternative radiographic techniques. Students meeting radiographic proficiency on the x-ray mannequin prepare for the Radiation Health and Safety (RHS) proficiency exam. Candidates for the RHS proficiency exam will follow all RHS, Dental Assisting National Board (DANB) and Oregon examination requirements in preparation of patient radiographs.							This course focuses on in-depth knowledge of the properties, uses and manipulation of impression materials, gypsum products and waxes. Foundational knowledge will prepare students for the fabrication of custom trays, bleaching trays, and provisional restorations. Includes knowledge of fixed and removable prosthodontic procedures and rational for polishing removable appliances. An overview of dental implants will also be covered.						
Required: Acceptance into Dental Assistant program							Required: Acceptance into Dental Assistant program						
Prerequisites: DA-101 with a C or better							Prerequisites: DA-107 with a C or better						
Corequisites: DA-102							Corequisites: DA-108L						
HAR	DA-102-01	342193 TH			12-1:50 PM		ONL	DA-108-01	342199				
	K. HIATT		\$260.00	\$26.00	\$310.00	\$596.00		R. MASCARENHAS		\$260.00	\$26.00	\$285.00	\$571.00
DA-102L	DENTAL RADIOLOGY II LAB, 1 CREDIT						DA-108L	DENTAL MATERIALS II LAB, 1 CREDIT					
Knowledge and skills in alternative radiographic techniques are taught as students demonstrate exposure techniques and corrective measures of various alternative radiographic techniques. Students meeting radiographic proficiency on the x-ray mannequin prepare for the Radiation Health and Safety (RHS) proficiency exam. Candidates for the RHS proficiency exam will follow all RHS, Dental Assisting National Board (DANB) and Oregon examination requirements in preparation of patient radiographs.							Essential skills in the manipulation and application of dental impression materials, gypsum products and waxes will be covered. Thorough knowledge of laboratory skills in the fabrication of bleaching trays and provisional restorations will be taught. Demonstration of custom trays and uses are introduced. The instrumentation and procedures for fixed and removable prosthodontics will also be covered.						
Required: Acceptance into Dental Assistant program							Required: Acceptance into Dental Assistant program						
Prerequisites: DA-101 with a C or better							Prerequisites: DA-107L with a C or better						
Corequisites: DA-102							Corequisites: DA-108						

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HAR	DA-108L-01 342200 TH		A. KOBYLINSKY			\$130.00	\$13.00	9-11:50 AM	\$0.00	\$143.00
HAR	DA-108L-02 342201 TH		A. KOBYLINSKY			\$130.00	\$13.00	2-4:50 PM	\$0.00	\$143.00

DA-120 CLINICAL PRACTICUM II, 5 CREDITS

Supervised unpaid practice and improvement of clinical skills taught in clinical procedures, dental materials and radiology. Covers advanced Expanded Functions Dental Assisting (EFDA) skills. Implement infection control protocols. Introduce basic business office procedures. Ten hours of community service will be required. Participate in 9 hours of seminar during the term.

Required: Acceptance into Dental Assistant program

Prerequisites: DA-110 with a C or better

HAR	DA-120-01 342202 TW		K. HIATT			\$650.00	\$65.00	8-4:50 PM	\$335.00	\$1,050.00
Seminar Date: 9am-3pm Wednesday, March 4th. Room TBD.										

Digital Media Communications**DMC-104 DIGITAL VIDEO EDITING, 4 CREDITS**

Introduction to video editing skills that include logging and capturing raw video, assembly of shots on a timeline, and the use of effects in a final video sequence. Along with text generation, audio balancing, audio sweetening, and video compositing, this course will offer students an in-depth overview of the video editing process. The course will explore the history of editing and the theory behind various film and video editing forms. Lab component included.

Recommended Prerequisites: WRD-090 or placement in WR-121Z

OC LCT	DMC-104-01 343014 TTH		M. DEVENDORF			\$520.00	\$52.00	1-3:50 PM	\$120.00	\$692.00
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DMC-105 THE ART AND CRAFT OF ANIMATION AND CINEMATOGRAPHY, 4 CREDITS

This course is an overview of the art and craft of animation and cinematography and includes, the history of early animation and camera techniques. Students will explore cinematic and animation techniques that include hand-drawn, stop motion, computer-generated animation, world-building, storyboarding, lighting, camera motion and character design. Technical aspects and aesthetic considerations of visual storytelling are considered through lectures, screenings, demonstrations, exercises, creative projects and class critiques.

OC	DMC-105-01 347496 MW		M. DEVENDORF			\$520.00	\$52.00	9-11:50 AM	\$120.00	\$692.00
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DMC-106 ANIMATION & MOTION GRAPHICS I, 4 CREDITS

Introduction to the fundamentals of animation and motion graphics design. This project-based course will explore experimental and new technological approaches to creating digital effects and animation for video and web-based applications. Students will learn the basics of industry standard 3D and compositing software to create successful VFX, 3D Animation, and Motion Graphics projects.

Recommended Prerequisites: DMC-104 or DMC-225

OC LCT	DMC-106-01 343024 MW		T. WASSON			\$520.00	\$52.00	1-3:50 PM	\$120.00	\$692.00
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DMC-147 MUSIC, SOUND & MOVIE MAKING, 1 CREDIT

Presents the basic components of designing, shooting, recording audio, and post production of movies as well as the history and theory that has led to contemporary film production.

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
OFF: Other Off-Campus Location

Distance Education Notification:
ONL: Online Only
REM: Remote (w/ scheduled meetings)
HYB: In-person plus online work

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
OC LCT	DMC-147-01 342171 F		B. ROSE			\$130.00	\$13.00	6:30 -8:20 PM 9-5:50 PM	\$99.00	\$242.00
Meets: 1/30 & 1/31.										

DMC-205 DIRECTING FOR FILM & VIDEO, 4 CREDITS

This course provides students interested in filmmaking the opportunity to develop the skills needed to successfully direct films and performances specifically for the screen.

Recommended Prerequisites: DMC-104, DMC-264, and WR-121Z

OC LCT	DMC-205-01 343029 MW		M. DEVENDORF			\$520.00	\$52.00	1-3:50 PM	\$120.00	\$692.00
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DMC-221 INTRODUCTION TO 2D ANIMATION: DESIGN & TECHNIQUES, 4 CREDITS

Introduces the principles of 2D digital animation using the latest industry standard software. The course will emphasize design and physical principles, analytical skills, and creativity. Students will learn the fundamental principles of animation, character and environment design, FX animation, and basic narrative development, in order to create successful animated projects.

Recommended Prerequisites: DMC-225 or equivalent experience

OC LCT	DMC-221-01 343034 TTH		T. WASSON			\$520.00	\$52.00	9-11:50 AM	\$120.00	\$692.00
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DMC-225 COMPUTER GRAPHICS I, 4 CREDITS

Introduction to the use of digital graphics programs. Photo manipulation, illustration, and compositing techniques will be explored. Design principles and creative composition will be emphasized. Historical and contemporary issues related to graphic design aesthetics will be considered.

Recommended Prerequisites: ART-115

ONL LCT	DMC-225-01 343038		B. THWING			\$520.00	\$52.00		\$120.00	\$692.00
OC	DMC-225-02 343040 MW		B. THWING			\$520.00	\$52.00	9-11:50 AM	\$120.00	\$692.00

DMC-280 DIGITAL MEDIA COMMUNICATIONS/CWE, 3-6 CREDITS

Cooperative work experience. Provides students with on-the-job work experience in the field of media studies. Required: Student Petition.

Corequisites: CWE-281

ONL LCT	DMC-280-01 343051		T. WASSON			\$780.00	\$78.00		\$45.00	\$903.00V
Required: Student Petition.										

DMC-291 DIGITAL MEDIA COMMUNICATIONS PORTFOLIO PROJECT I, 4 CREDITS

This course is an individual portfolio project class for Digital Media Communications (DMC) students. Students create an original finished work representative of one of the focus areas included in the DMC program. Students will develop a professional online portfolio (website) that represents their skills in their chosen DMC focus area in preparation for internships and employment. The process of portfolio production at this level includes planning for, refining and completing a project, presentation of the completed work, and project assessment.

Prerequisites: DMC-100 and DMC-104

Recommended: Two courses from a DMC Focus Area

OC LCT	DMC-291-01 343053 TTH		T. WASSON			\$520.00	\$52.00	1-3:50 PM	\$120.00	\$692.00
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Other Coding Translations:
TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text
NCT: No-Cost Text

Course No	Course Title, Credits					
Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Crs. Fee	Total

Economics

EC-201Z PRINCIPLES OF MICROECONOMICS, 4 CREDITS

Examines how consumers and firms make choices when facing scarce resources, and how those choices are related to government policy and market outcomes, such as prices and output.

Prerequisites: MTH-020 or placement in MTH-098

Prerequisite or Corequisite: WRD-098 or placement in WR-121Z

OC NCT	EC-201Z-01	342845 MW			1-2:50 PM	
	D. LOUGEE	\$520.00	\$52.00	\$0.00		\$572.00
ONL NCT	EC-201Z-02	342850				
	M. PARTAPURWALA	\$520.00	\$52.00	\$0.00		\$572.00

EC-202Z PRINCIPLES OF MACROECONOMICS, 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.

Prerequisites: MTH-020 or placement in MTH-050 or MTH-060

Prerequisite or Corequisite: WRD-098 or placement in WR-121Z

OC NCT	EC-202Z-01	342856 MW			3-4:50 PM	
	D. LOUGEE	\$520.00	\$52.00	\$0.00		\$572.00
ONL NCT	EC-202Z-02	342864				
	M. PARTAPURWALA	\$520.00	\$52.00	\$0.00		\$572.00

Education

ECE-121 OBSERVATION AND GUIDANCE I IN ECE SETTINGS, 4 CREDITS

Course is designed to help students explore in depth observation and recording techniques of children's development and learning and to examine various child guidance techniques for children from birth - 3rd grade. Students will be provided with strategies to assist them in providing positive guidance to children in a variety of settings and situations.

ONL	ECE-121-01	342865				
	S. MYERS	\$520.00	\$52.00	\$0.00		\$572.00
	Meets: 1/5-2/8. This is an accelerated 5-week section that is all online with no synchronous meetings.					

ECE-121ES OBSERVACIÓN Y ORIENTACIÓN I EN EDUCACIÓN TEMPRANA, 4 CREDITS

El curso está diseñado para ayudar a los estudiantes a explorar en profundidad las técnicas de observación y registro del desarrollo y aprendizaje de los niños. Se examinan varias técnicas de orientación infantil para niños desde el nacimiento hasta el 3er grado. Los estudiantes recibirán estrategias para ayudarles a proporcionar orientaciones positivas a los niños en función de diferentes de escenarios y situaciones.

REM ESPAÑOL	ECE-121ES-01	342868 M			6-7:50 PM	
	Y. SANCHEZ	\$520.00	\$52.00	\$0.00		\$572.00
	La clase se reúne seis lunes por Zoom de 6:00-7:50pm. (1/5, 1/12, 1/26, 2/9, 2/23, 3/9).					

ECE-150ES INTRODUCCIÓN A LA EDUCACIÓN INFANTIL Y LOS ESTUDIOS FAMILIARES, 4 CREDITS

Este curso se enfoca en la historia de la educación infantil y los teóricos más importantes que han contribuido significativamente al campo. Se examinarán los tipos de programas que atienden a niños pequeños, desde el nacimiento hasta los 8 años, y sus familias. Se explorarán los estándares estatales y nacionales en educación infantil y estudios familiares.

REM ESPAÑOL	ECE-150ES-01	342871 TH			6-7:50 PM	
	L. JAMES	\$520.00	\$52.00	\$0.00		\$572.00
	La clase se reúne seis jueves por Zoom de 6:00PM a 7:50PM (1/8, 1/22, 2/5, 2/19, 3/5, 3/19).					

ECE-154 LANGUAGE & LITERACY DEVELOPMENT IN YOUNG CHILDREN, 4 CREDITS

Focuses on language and literacy development of children from birth-age 8. The research foundation and components of language and literacy development will be examined. Criteria for selecting quality children's literature will be explored. Practical strategies for promoting optimal development will be emphasized. Students will explore how to set create language and literacy-rich environments and experiences.

ONL	ECE-154-01	342876				
	B. KING	\$520.00	\$52.00	\$0.00		\$572.00
	Meets: 2/9-3/14. This is an accelerated 5-week course that is all online with no synchronous meetings.					

ECE-154ES DESARROLLO DEL LENGUAJE Y LA ALFABETIZACIÓN, 4 CREDITS

Se centra en el desarrollo del lenguaje y la alfabetización de los niños desde el nacimiento hasta tercer grado. Se examinarán las bases de la investigación y los componentes del desarrollo del lenguaje y la alfabetización. Se explorarán los criterios para seleccionar literatura infantil de calidad. Se enfatizarán estrategias prácticas para promover un desarrollo óptimo.

Prerequisites: FYE-101ES

REM ESPAÑOL	ECE-154ES-01	342878 T			6-7:50 PM	
	P. ALVARADO	\$520.00	\$52.00	\$0.00		\$572.00
	La clase se reúne seis martes por Zoom de 6:00PM a 7:50PM (1/6, 1/20, 2/3, 2/17, 3/3, 3/17).					

ECE-169ES TRABAJAR CON NIÑOS CON NECESIDADES ESPECIALES, 4 CREDITS

Explora prácticas inclusivas para niños con necesidades especiales, desde el nacimiento hasta el tercer grado, en diferentes entornos de desarrollo infantil entornos de primera infancia. Este curso incluirá una exploración de lo siguiente: historia y contexto legal de la educación especial de la primera infancia; la importancia y los beneficios de crear entornos familiares para apoyar el desarrollo educativo de los niños; adaptaciones y adaptaciones curriculares; evaluación y seguimiento del progreso; y promoción.

REM ESPAÑOL	ECE-169ES-01	342883 W			6-7:50 PM	
	M. GARCIA AVILEZ	\$520.00	\$52.00	\$0.00		\$572.00
	La clase se reúne seis miércoles por Zoom de 6:00-7:50pm. (1/7, 1/21, 2/4, 2/18, 3/4, 3/18).					
REM ESPAÑOL	ECE-169ES-02	342886 TH			6-7:50 PM	
	M. GARCIA AVILEZ	\$520.00	\$52.00	\$0.00		\$572.00
	La clase se reúne seis jueves por Zoom de 6:00-7:50pm. (1/8, 1/22, 2/5, 2/19, 3/5, 3/19).					

ECE-235 SAFETY, HEALTH AND NUTRITION, 3 CREDITS

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
OFF: Other Off-Campus Location

Distance Education Notification:
ONL: Online Only
REM: Remote (w/ scheduled meetings)
HYB: In-person plus online work

Other Coding Translations:
TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text
NCT: No-Cost Text

Course No	Course Title, Credits					
Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time			
Instructor	Tuition	Fee	Crs. Fee	Total		

Explores safety, health and nutrition issues for children ages infant through preschool. Focus includes creating safe indoor and outdoor environments, healthy lifestyle practices, caring for children with special healthcare needs, USDA food program requirements, and state guidelines around safety, health and nutrition requirements.

ONL	ECE-235-01	342894				
	B. KING	\$390.00	\$39.00	\$0.00	\$429.00	
	Meets: 2/9-3/14. This is an accelerated 5-week course that is all online with no synchronous meetings.					

ECE-235ES SEGURIDAD, SALUD, Y NUTRICIÓN, 3 CREDITS

Este curso explora temas de seguridad, salud y nutrición para niños desde bebés hasta la edad de cinco años. El enfoque incluye la creación de ambientes seguros al interior como el exterior, prácticas para llevar un estilo de vida saludable, cuidado de niños con necesidades especiales médicas, requisitos del programa de alimentos del USDA y pautas estatales sobre los requisitos de seguridad, salud y nutrición.

REM LCT ESPAÑOL	ECE-235ES-01	342896 S				8-9:50 AM
	L. JAMES	\$390.00	\$39.00	\$0.00	\$429.00	
	La clase se reúne seis sábados por Zoom de 8:00am-9:50am. (1/10, 1/24, 2/7, 2/21, 3/7, 3/14).					

ECE-239ES PRÁCTICAS INFORMADAS POR EL TRAUMA EN EL CUIDADO Y LA EDUCACIÓN DE LA PRIMERA INFANCIA, 4 CREDITS

Desarrollar conocimientos y habilidades que apoyen el aprendizaje y el desarrollo de niños pequeños, desde el nacimiento hasta los 8 años, que han sido negativamente afectados por traumas. Explorar los tipos y síntomas del trauma, y hacer hincapié en las prácticas informadas por el trauma que pueden aplicarse en el hogar y el entorno escolar del niño. Identificar los recursos disponibles y las estrategias reconocidas para trabajar en colaboración con las familias y otros profesionales.

Prerequisites: ECE-150ES and HDF-225ES

ONL ESPAÑOL	ECE-239ES-01	342910				
	B. MARRON	\$520.00	\$52.00	\$0.00	\$572.00	
ONL ESPAÑOL	ECE-239ES-02	342912				
	B. MARRON	\$520.00	\$52.00	\$0.00	\$572.00	

ECE-254ES ESTRATEGIAS DE INSTRUCCIÓN PARA ESTUDIANTES DE DOS IDIOMAS, 4 CREDITS

Este curso examina enfoques pedagogicos y culturales que conducen a un desarrollo exitoso del dominio del idioma ingles, idioma usado en la casa, y reconocimiento del contenido por los niños cuyo idioma en el hogar no es el inglés. Se enfoca en el niño desde su nacimiento hasta la escuela primaria.

Prerequisites: ECE-154ES and ECE-240ES

REM ESPAÑOL	ECE-254ES-01	342918 T				6-7:50 PM
	A. ECHEVARRIA	\$520.00	\$52.00	\$0.00	\$572.00	
	La clase se reúne seis martes por Zoom de 6:00-7:50pm. (1/6, 1/20, 2/3, 2/17, 3/3, 3/17).					

ECE-291 PRACTICUM II, 4 CREDITS

Focuses on field experience for students in a variety of educational settings, paralleling duties regularly assigned to early childhood educators. This course allows students to apply knowledge, methods, and skills gained from early childhood education and family studies courses. The course covers classroom experiences, best practices and assessment techniques. Required: Student Petition.

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
OFF: Other Off-Campus Location

Distance Education Notification:
ONL: Online Only
REM: Remote (w/ scheduled meetings)
HYB: In-person plus online work

Course No	Course Title, Credits					
Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time			
Instructor	Tuition	Fee	Crs. Fee	Total		

Prerequisites: ECE-121, ECE-150, ECE-280, HDF-225, and HDF-247

OC HYB	ECE-291-01	342926 TH				5:30 -7:20 PM
	B. KING	\$520.00	\$52.00	\$0.00	\$572.00	
	Required: Student Petition. Meets in-person on six Thursdays from 3:00pm to 4:50pm. (1/8, 1/22, 2/5, 2/19, 3/5, 3/19).					

ECE-291ES PRACTICUM II, 4 CREDITS

Se enfoca en permitir que los estudiantes tengan una experiencia laboral en una variedad de entornos educativos, al mismo tiempo que hacen las tareas asignadas regularmente a los educadores de la primera infancia. Este curso permite a los estudiantes aplicar los conocimientos, métodos y habilidades adquiridos en los cursos de educación infantil y estudios sobre las familias. El seminario cubre las experiencias en el aula, las mejores prácticas y los métodos de evaluación.

Prerequisites: ECE-121ES, ECE-150ES, ECE-179ES, ECE-240ES, ECE-280ES, HDF-225ES, and HDF-247ES

REM ESPAÑOL	ECE-291ES-01	342930 F				6-8:50 PM
	A. ECHEVARRIA	\$520.00	\$52.00	\$0.00	\$572.00	
	Requerido: petición del estudiante. La clase se reúne seis viernes por Zoom de 6:00pm-8:50pm. (1/9, 1/23, 2/6, 2/20, 3/6, 3/20).					

REM ESPAÑOL	ECE-291ES-02	342935 S				9-11:50 AM
	D. TORRADO	\$520.00	\$52.00	\$0.00	\$572.00	
	Requerido: petición del estudiante. La clase se reúne seis sábados por Zoom de 9:00am-11:50am. (1/10, 1/24, 2/7, 2/21, 3/7, 3/14).					

ED-131 INSTRUCTIONAL STRATEGIES, 3 CREDITS

This course examines the knowledge, skills, and characteristics of effective teachers. The focus of the course is on successful instructional planning and the delivery of curriculum. This course covers teacher-centered and student-centered instructional strategies and ways to differentiate instruction for diverse learners.

ONL LCT	ED-131-01	342940				
	L. SCOTT	\$390.00	\$39.00	\$43.75	\$472.75	
	Online textbook included in section fees.					

ED-216 FOUNDATIONS OF TEACHING & EDUCATION, 4 CREDITS

Provides an overview of the educational system in the U.S. including historical, legal, and philosophical foundations of education. Explores the financing, governance and organization of education as well as current issues impacting our educational system. Provides an overview of diversity in educational settings and the characteristics and ethical obligations of effective schools and professional educators. Examines career options and pathways in the field of education.

ONL	ED-216-02	342943				
	L. SCOTT	\$520.00	\$52.00	\$43.75	\$615.75	
	Online textbook included in section fees.					

ED-229 LEARNING & DEVELOPMENT, 3 CREDITS

Focuses on foundational ideas, concepts, principles, and theories in the field of educational psychology that have a significant influence on educational practice. Provides students with an overview of psychological theories regarding human development, intelligence, motivation, and the learning process. Students learn how to apply strategies and techniques derived from these theories in the classroom.

Other Coding Translations:
TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text
NCT: No-Cost Text

Course No	Course Title, Credits		Days (M,T,W,Th,F,S,SU)	Time	Total
	Section No	Crs Reg.			
Instructor	Tuition	Fee	Crs. Fee		
ONL LCT	ED-229-01	342944			
L. SCOTT	\$390.00	\$39.00	\$43.75	\$472.75	
Online textbook included in section fees.					

ED-254 INSTRUCTIONAL STRATEGIES FOR DUAL LANGUAGE LEARNERS, 3 CREDITS

Examines pedagogical and cultural approaches which lead to successful development of English language skills and content knowledge for children who speak a home language other than English.

ONL LCT	ED-254-01	342954			
S. MYERS	\$390.00	\$39.00	\$0.00	\$429.00	

ED-269 OVERVIEW OF SPECIAL EDUCATION, 3 CREDITS

Provides an introduction to the categories of disability described in the Individuals with Disabilities Education Act (IDEA). Topics include definitions under federal law, implications in school settings, and intervention strategies to meet students' special needs.

ONL NCT	ED-269-01	342955			
T. GOWDY	\$390.00	\$39.00	\$0.00	\$429.00	

Electronics & Microelectronics

All degree seeking students should arrange to speak to a faculty advisor prior to registering. Call 503-594-3318 for more information, or contact Advising, 503-594-3475.

EET-113 ELECTRONIC EQUIPMENT AND ASSEMBLY II, 1 CREDIT

This is the second course in a three course sequence. Exploration of oscilloscope and function generator functions to create and measure time varying signals. Spreadsheets are used to analyze and plot experimental data. Create circuits using PCB software.

Prerequisites: EET-112

oc	EET-113-01	343059 MW	4:30 -5:20 PM		
B. PALACIOS	\$130.00	\$13.00	\$43.75	\$186.75	

EET-141 ELECTRICAL FUNDAMENTALS II, 4 CREDITS

Learn methods of electrical circuit analysis, using proper DC theorems. Study energy storage elements including inductors and capacitors. Transient analysis of RC and RL circuits will be studied.

Prerequisite or Corequisite: EET-113

Prerequisites: EET-137

Recommended Prerequisite or Corequisite: MTH-111Z

oc	EET-141-01	343066 MW	12-3:50 PM		
W. SELLEVAAG	\$520.00	\$52.00	\$174.00	\$746.00	

EET-225 MECHATRONICS I, 2 CREDITS

This course explores automation of industrial systems. Students will study the fundamental components of industrial motion control, relay circuits, stepper and servo motors; and power transmission components.

Prerequisites: EET-215

oc	EET-225-01	343069 MW	1-2:50 PM		
J. TRAVER	\$260.00	\$26.00	\$87.50	\$373.50	

EET-227 SEMICONDUCTOR CIRCUITS II, 3 CREDITS

Second in a series concentrating on the application, design and circuit analysis of circuits using transistors. Industry standard devices will be used.

Prerequisites: EET-127

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
OFF: Other Off-Campus Location

Distance Education Notification:
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HYB: In-person plus online work

Other Coding Translations:
TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text
NCT: No-Cost Text

Course No	Course Title, Credits		Days (M,T,W,Th,F,S,SU)	Time	Total
	Section No	Crs Reg.			
Instructor	Tuition	Fee	Crs. Fee		
OC	EET-227-01	343073 MW	5:30 -8:20 PM		
J. KUEBLER	\$390.00	\$39.00	\$130.50	\$559.50	

EET-233 PROGRAMMABLE LOGIC CONTROLLERS I, 3 CREDITS

Study of basic skills necessary to program, install and maintain industrial control systems utilizing programmable logic controllers. Course content lays a foundation of hardwired relay control systems and components, and then builds on this for an understanding of programmable logic controller (PLC) systems.

Recommended Prerequisites: MFG-130

oc	EET-233-01	343079 TH	6-8:50 PM		
B. GARDNER	\$390.00	\$39.00	\$0.00	\$429.00	

EET-257 DIGITAL LOGIC II, 3 CREDITS

Bus systems and computer peripherals & systems using latches, registers, counters, and memory circuits are developed and analyzed.

Prerequisites: EET-157

oc	EET-257-01	343082 MW	5:30 -8:20 PM		
J. LEE	\$390.00	\$39.00	\$130.50	\$559.50	

SM-136 PHOTOLITHOGRAPHY, 2 CREDITS

The course covers the relationship between theoretical and practical aspects of current methods and equipment used in photolithography. It also includes troubleshooting common process and equipment-related problems.

Recommended Prerequisites: SM-150

ONL	SM-136-01	343366			
W. SELLEVAAG	\$260.00	\$26.00	\$87.00	\$373.00	

SM-160 SEMICONDUCTOR PROCESSING II, 2 CREDITS

Provides an overview of basic processes involved in the fabrication of finished silicon wafers, oxidation and deposition processes. Troubleshooting of common equipment is emphasized.

Recommended Prerequisites: SM-150

ONL	SM-160-01	343367			
W. SELLEVAAG	\$260.00	\$26.00	\$87.00	\$373.00	

SM-280 ELECTRONICS & MICROELECTRONICS/CWE, 1-6 CREDITS

Cooperative work experience. Practical experience in the high-tech industry. Coordination of instruction will occur with industry and the manufacturing and cooperative work departments. Required: Student Petition.

Corequisites: CWE-281

ONL	SM-280-01	343368			
C. CONNORS	\$780.00	\$78.00	\$255.00	\$1,113.00V	
Required: Student Petition. Restricted: Microelectronics & Electronics students. Corequisite: Take the following CWE-281-06.					

Emergency Management Professional

EMP-201 INTRODUCTION TO HOMELAND SECURITY AND EMERGENCY MANAGEMENT, 4 CREDITS

This course introduces Homeland Security and Emergency Management (HSEM) as a profession. The course begins with the historical context of HSEM and provides a foundation for the many disciplines within the field including threats and hazards analysis, hazard mitigation, emergency preparedness, response and recovery. The course also provides an overview of current issues, policies, best practices and lessons learned.

Course No	Course Title, Credits					
	Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Total
ONL	EMP-201-01 TBA	347637		\$520.00	\$52.00	\$0.00
						\$572.00

EMP-202 THREAT AND HAZARD ASSESSMENT FOR EMERGENCY MANAGEMENT PROFESSIONALS, 3 CREDITS

This course demonstrates the importance of risk reduction programs and the history of Threats and Hazard Identification and Risk Assessment (THIRA). Emergency management professionals must assess weaknesses and establish programs to reduce risks during preparedness for the whole community. This course will give students a basic understanding of risk management and risk prevention in emergency management.

ONL	EMP-202-01 TBA	347638		\$390.00	\$39.00	\$0.00
						\$429.00

EMP-208 DISASTER RESPONSE AND RECOVERY, 4 CREDITS

The purpose of this course is to enable students to understand and think critically about response and recovery operations in the profession of emergency management. Students will utilize problem based learning by analyzing actual disaster events and applying the theories, principals, and practice of response and recovery. In addition, students will learn about the issues faced by vulnerable populations and how to address the unique needs during disaster response and recovery.

ONL	EMP-208-01 TBA	347639		\$520.00	\$52.00	\$0.00
						\$572.00

Emergency Medical Technology

EMT-101 EMERGENCY MEDICAL TECHNICIAN PART I, 6 CREDITS

This course is the first of a two-part series that will prepare students to enter the workforce as an emergency medical service provider. Topics include airway management, patient assessment, and treatment/stabilization for common medical emergencies.

Required: Acceptance into EMT cohort

Prerequisites: EMT-105 with a C or better

Prerequisites: MTH-060 with a C or better or placement in MTH-065

Prerequisites: WRD-098 with a C or better or placement in WR-121Z

HAR HYB	EMT-101-01 T. SAWZAK	342203 MWF	1-4:20 PM	\$780.00	\$78.00	\$400.00
						\$1,258.00

EMT-102 EMERGENCY MEDICAL TECHNICIAN PART II, 6 CREDITS

This course is the second of the two-part series that will prepare students to enter the workforce as an emergency medical service provider. Topics include patient assessment, treatment/stabilization for environmental and trauma emergencies, providing emergency care to special patient populations, and EMS operations. Includes 20 hours of observational time in an emergency department and with an EMS unit. Upon successful completion, students will qualify to take the National Registry of Emergency Medical Technicians cognitive certification exam.

Required: Acceptance into EMT cohort

Prerequisites: EMT-101 with a C or better

HAR HYB	EMT-102-01 T. SAWZAK	342204 MWF	6-9:20 PM	\$780.00	\$78.00	\$400.00
						\$1,258.00

EMT-105 INTRODUCTION TO EMERGENCY MEDICAL SERVICES, 3 CREDITS

Introduces the student to Emergency Medical Services (EMS). Explores the career pathways for EMTs and Paramedics. Examines the history, structure, and function of our modern-day EMS system. Includes provider roles and responsibilities, operations, safety, legal considerations, and career opportunities. In addition, this class provides a foundation for the EMT certification course by including a review of anatomy and physiology; where things are and how they are supposed to work, pathophysiology; what happens when disease or injury causes those systems to fail, and patient assessment; how EMS providers evaluate for those conditions and make treatment and transport decisions.

ONL	EMT-105-01 T. SAWZAK	342205		\$390.00	\$39.00	\$0.00
						\$429.00
ONL	EMT-105-02 T. SAWZAK	342206		\$390.00	\$39.00	\$0.00
						\$429.00

Engineering

ENGR-111 INTRODUCTION TO ENGINEERING, 3 CREDITS

Introduction to the basic ideas and tools of the engineering profession. An exploration of career and education options within the field, and the skills needed to achieve career goals. Methods of engineering analysis, design, and problem solving culminating in a design project. The class will cover all facets of engineering design, including background research, requirement specification and prioritization, development, prototype construction, testing, and evaluation for future redesigns.

Prerequisite or Corequisite: MTH-111Z or higher

OC	ENGR-111-01 R. SCHOMP	343085 MW	4-5:20 PM	\$390.00	\$39.00	\$10.00
						\$439.00

ENGR-112 ENGINEERING PROGRAMMING, 3 CREDITS

Introduction to basic scientific and engineering computing. Covers methods of engineering analysis, design, and problem solving with computational tools. Emphasis on developing proficiency in writing functions and programs.

Prerequisite or Corequisite: MTH-112Z or higher

OC	ENGR-112-01 E. LEE	343087 MW	1-2:20 PM	\$390.00	\$39.00	\$0.00
						\$429.00
OC	ENGR-112-02 E. LEE	343089 TTH	3-4:20 PM	\$390.00	\$39.00	\$0.00
						\$429.00

ENGR-171 DIGITAL LOGIC, 4 CREDITS

Introduction to digital design fundamentals. Covers basic logic gates, number systems, logic circuit simplification techniques, combinational logic devices, flip-flops, and basic state machines. Uses computer-based tools for logic system development and simulation. Reinforces systemic design methodology.

Prerequisites: MTH-111Z

OC	ENGR-171-01 M. FARRELL	343090 MF	9-11:50 AM	\$520.00	\$52.00	\$0.00
						\$572.00

ENGR-212 DYNAMICS, 4 CREDITS

Kinematics, kinetics, work-energy, and impulse-momentum relationships of engineering systems. The course examines the fundamental principles of Newton's laws of motion, with applications to basic particles and rigid bodies in one, two, and three dimensions.

Prerequisites: ENGR-211 and PH-211

OC	ENGR-212-01 E. LEE	343092 MW	3-4:50 PM	\$520.00	\$52.00	\$20.00
						\$592.00

ENGR-222 ELECTRICAL CIRCUIT ANALYSIS II, 4 CREDITS

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
OFF: Other Off-Campus Location

Distance Education Notification:
ONL: Online Only
REM: Remote (w/ scheduled meetings)
HYB: In-person plus online work

Other Coding Translations:
TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text
NCT: No-Cost Text

Course Listing

2026/WI

Course No	Course Title, Credits					
Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total

Expands upon the techniques of circuit analysis begun in ENGR-221 through theory and laboratory experiments. The course covers the time response of first- and second-order circuits, the steady-state circuit behavior of circuits driven by sinusoidal sources, AC power, and three phase circuits.

Prerequisites: ENGR-221

Corequisites: ENGR-222L

Recommended Prerequisite or Corequisite: ENGR-112

oc	ENGR-222-01	343095 TTH			9-10:20 AM	
	M. FARRELL	\$520.00	\$52.00	\$52.00		\$624.00

ENGR-222L ELECTRICAL CIRCUIT ANALYSIS II LAB, 0 CREDIT

Lab course for ENGR-222

Corequisites: ENGR-222

Recommended Prerequisite or Corequisite: ENGR-112

oc	ENGR-222L-01	343097 TTH			10:30 -11:50 AM	
	M. FARRELL	\$0.00	\$0.00	\$0.00		\$0.00

ENGR-231 PROPERTIES OF MATERIALS, 4 CREDITS

This course is an introduction to materials science, a field that describes the behavior of materials by utilizing principles of chemistry and physics to engineer new materials and predict their resultant properties. Materials processing methods and the resulting microscopic structures and macroscopic thermal, electrical, and mechanical properties will be investigated.

Prerequisites: CH-221Z and CH-227Z

oc	ENGR-231-01	343099 TTH			10-11:20 AM	
	E. LEE	\$520.00	\$52.00	\$52.00	12-2:50 PM	\$624.00

English for Speakers of Other Languages

ESOL-012 BEGINNING ESOL, 0 CREDIT

English language learners speak and listen to simple words, phrases, questions, statements and commands using common English vocabulary in simple, highly-structured tasks. Aligns with the Oregon Adult English Language Proficiency Standards, Level 1 and the Oregon Adult College and Career Readiness Standards Reading Foundational Skills. Variable Hours: 48-66 hours. Required: Student Petition.

OC LCT	ESOL-012-01	342424 TTH			9-11:50 AM	
	D. VERMILLION	\$0.00	\$0.00	\$60.00		\$60.00
	Required: Student Petition.					
HAR LCT	ESOL-012-06	342429 TTH			6-8:50 PM	
	T. NIKOLOPOULOS	\$0.00	\$0.00	\$60.00		\$60.00
	Required: Student Petition.					
HAR LCT	ESOL-012-07	342432 TTH			6-8:50 PM	
	M. SHORTINO	\$0.00	\$0.00	\$60.00		\$60.00
	Required: Student Petition.					
HAR LCT	ESOL-012-08	342436 TTH			6-8:50 PM	
	L. ROWE	\$0.00	\$0.00	\$60.00		\$60.00
	Required: Student Petition.					

ESOL-015 BEGINNING READING, WRITING, AND GRAMMAR, 0 CREDIT

English language learners are introduced to the basic language necessary to function in day-to-day American society; language functions are taught in the contexts of work, family and community. Aligns with the Oregon Adult English Language Proficiency Standards, Level 1. Variable hours: 48-66 hours. Required: Student Petition.

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
OFF: Other Off-Campus Location

Distance Education Notification:
ONL: Online Only
REM: Remote (w/ scheduled meetings)
HYB: In-person plus online work

Course No	Course Title, Credits					
Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total

OC NCT	ESOL-015-01	342439 MW			9-11:50 AM	
	J. RUEDA	\$0.00	\$0.00	\$65.00		\$65.00
	Required: Student Petition.					
HAR NCT	ESOL-015-06	342441 MW			6-8:50 PM	
	K. STECKMEST	\$0.00	\$0.00	\$65.00		\$65.00
	Required: Student Petition.					
HAR NCT	ESOL-015-07	342442 MW			6-8:50 PM	
	Y. EFIMENKO	\$0.00	\$0.00	\$65.00		\$65.00
	Required: Student Petition.					

ESOL-020 UPPER BEGINNING GRAMMAR, 0 CREDIT

English language learners study and practice basic verb forms (simple present and present progressive), and adverbs of frequency in written and spoken English. Aligns with the Oregon Adult English Language Proficiency Standards, Level 1. Required: Student Petition.

OC NCT	ESOL-020-01	342444 TTH			10:30 -11:50 AM	
	A. FRANZONI	\$0.00	\$0.00	\$35.00		\$35.00
	Required: Student Petition.					
HAR NCT	ESOL-020-06	342447 TTH			7:30 -8:50 PM	
	A. FRANZONI	\$0.00	\$0.00	\$35.00		\$35.00
	Required: Student Petition.					

ESOL-022 UPPER BEGINNING CONVERSATION, 0 CREDIT

English language learners study and practice speaking and listening skills in basic, highly-structured tasks in the contexts of community, health, and work. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 1 & 2.

HAR LCT	ESOL-022-06	342450 TTH			6-7:20 PM	
	J. STENSETH	\$0.00	\$0.00	\$30.00		\$30.00
	Required: Student Petition.					

ESOL-024 UPPER BEGINNING READING & WRITING, 0 CREDIT

English language learners read short texts to improve reading skills, write simple, compound, and complex sentences, and write related sentences in paragraph form for the contexts of school, work, family and community. Aligns with the Oregon Adult English Language Proficiency Standards, Level 2. Required: Student Petition.

OC LCT	ESOL-024-01	342452 MW			9-11:50 AM	
	T. NIKOLOPOULOS	\$0.00	\$0.00	\$60.00		\$60.00
	Required: Student Petition.					
HAR LCT	ESOL-024-06	342455 MW			6-8:50 PM	
	S. CAISSE	\$0.00	\$0.00	\$60.00		\$60.00
	Required: Student Petition.					

ESOL-030 INTERMEDIATE GRAMMAR A, 0 CREDIT

One of a two-part series. English language learners study and practice simple present, present progressive, and future verb forms and modals of ability, and advice. Aligns with the Oregon Adult English Language Proficiency Standards, Level 2. Required: Student Petition.

HAR LCT	ESOL-030-06	342457 TTH			7:30 -8:50 PM	
	S. MUNRO	\$0.00	\$0.00	\$30.00		\$30.00
	Required: Student Petition.					

ESOL-031 INTERMEDIATE GRAMMAR B, 0 CREDIT

One of a two-part series. English language learners study and practice simple past and present perfect verb forms with time expressions, and comparative and superlative adjectives in written and spoken English. Aligns with the Oregon Adult English Language Proficiency Standards, Level 2. Required: Student Petition.

Other Coding Translations:
TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text
NCT: No-Cost Text

Course No	Course Title, Credits		Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time	Total
	Instructor				Tuition	Fee	Crs. Fee
OC LCT	ESOL-031-01	342460 TTH					10:30 -11:50 AM
	J. RUEDA		\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.						
HAR LCT	ESOL-031-06	342461 TTH					7:30 -8:50 PM
	I. FERGUSON		\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.						

ESOL-033 INTERMEDIATE CONVERSATION 2, 0 CREDIT

English language learners study and practice speaking and listening skills and strategies in structured tasks to improve fluency in the contexts of school, work, family and community. One of a 2-part series. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 2 and 3. Required: Student Petition.

OC LCT	ESOL-033-01	342462 TTH					10:30 -11:50 AM
	S. CAISSE		\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.						
HAR LCT	ESOL-033-06	342465 TTH					6-7:20 PM
	S. CAISSE		\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.						

ESOL-034 INTERMEDIATE READING & WRITING, 0 CREDIT

English language learners read a variety of texts to improve reading skills, and write paragraphs focused on a single topic developed with logically organized facts and details for the contexts of school, work, family and community. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 2 and 3. Required: Student Petition.

OC LCT	ESOL-034-01	342467 MW					9-11:50 AM
	D. VERMILLION		\$0.00	\$0.00	\$60.00	\$60.00	
	Required: Student Petition.						
HAR LCT	ESOL-034-06	342470 MW					6-8:50 PM
	D. VERMILLION		\$0.00	\$0.00	\$60.00	\$60.00	
	Required: Student Petition.						
HAR LCT	ESOL-034-07	347651 MW					6-8:50 PM
	TBA		\$0.00	\$0.00	\$60.00	\$60.00	
	Required: Student Petition.						

ESOL-043 UPPER INTERMEDIATE CONVERSATION 2, 0 CREDIT

English language learners study and practice speaking and listening skills and strategies for independent communication to improve fluency in the contexts of school, work, family and community. One of a 2-part series. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 3 and 4. One of a 2-part series. Required: Student Petition.

OC LCT	ESOL-043-01	342473 TTH					9-10:20 AM
	A. FRANZONI		\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.						
HAR LCT	ESOL-043-06	342475 TTH					6-7:20 PM
	S. MUNRO		\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.						
HAR LCT	ESOL-043-07	342477 TTH					6-7:20 PM
	A. FRANZONI		\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.						

ESOL-044 UPPER INTERMEDIATE READING & WRITING, 0 CREDIT

English language learners read a variety of texts to improve reading skills, and produce basic multi-paragraph texts for the contexts of school, work, family and community. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 3 and 4. Required: Student Petition.

Course No	Course Title, Credits		Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time	Total
	Instructor				Tuition	Fee	Crs. Fee
OC NCT	ESOL-044-01	342478 MW					9-11:50 AM
	L. MYERS		\$0.00	\$0.00	\$70.00	\$70.00	
	Required: Student Petition.						
HAR NCT	ESOL-044-06	342480 MW					6-8:50 PM
	P. MROZEK		\$0.00	\$0.00	\$70.00	\$70.00	
	Required: Student Petition.						

ESOL-046 EDITING FOR BETTER WRITING, 0 CREDIT

English language learners improve their writing through editing. They also engage in extended reading to provide a context for writing. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 2, 3 and 4. Required: Student Petition.

OC LCT	ESOL-046-01	342482 MW					9-11:50 AM
	K. LONG		\$0.00	\$0.00	\$60.00	\$60.00	
	Required: Student Petition.						
HAR LCT	ESOL-046-06	342484 MW					6-8:50 PM
	I. FERGUSON		\$0.00	\$0.00	\$60.00	\$60.00	
	Required: Student Petition.						

ESOL-051 ADVANCED GRAMMAR B, 0 CREDIT

One of a three-part series. English language learners study and practice count/non-count nouns, definite/indefinite articles, and noun clauses in written and spoken English. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 3 and 4. Required: Student Petition.

OC LCT	ESOL-051-01	347648 TTH					10:30 -11:50 AM
	K. LONG		\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.						
HAR LCT	ESOL-051-06	347649 TTH					7:30 -8:50 PM
	S. CAISSE		\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.						
HAR LCT	ESOL-051-07	347650 TTH					7:30 -8:50 PM
	J. STENSETH		\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.						

ESOL-053 ADVANCED COMMUNICATION SKILLS 2, 0 CREDIT

English language learners practice speaking and listening strategies for effective communication for discussions, interviews, presentations, and note-taking to improve fluency in speaking and listening. Students will study the important effect intonation and body language have on meaning, build vocabulary and critical thinking skills, and develop confidence in speaking with purpose. The focus of this course is to prepare students for success in the workplace and community. Aligns with the Oregon Adult English Language Proficiency Standards, Level 4 & 5. Required: Student Petition.

OC LCT	ESOL-053-01	342490 TTH					9-10:20 AM
	J. RUEDA		\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.						
HAR LCT	ESOL-053-06	342492 TTH					6-7:20 PM
	I. FERGUSON		\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.						

ESOL-054 ADVANCED READING & WRITING, 0 CREDIT

English language learners develop writing skills including summarizing, response writing, and paraphrasing, and improve writing fluency. Develop reading skills and fluency through reading a range of texts on a variety of topics. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 4 and 5. Required: Student Petition.

OC NCT	ESOL-054-01	342493 MW					9-11:50 AM
	L. JOYCE		\$0.00	\$0.00	\$70.00	\$70.00	
	Required: Student Petition.						

Campus Locations:

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OC: Oregon City Campus
WILS: Wilsonville Training Center
OFF: Other Off-Campus Location

Distance Education Notification:

ONL: Online Only
REM: Remote (w/ scheduled meetings)
HYB: In-person plus online work

Other Coding Translations:

TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español

LCT: Low-Cost Text
NCT: No-Cost Text

Course No	Course Title, Credits					
Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total

ESOL-075 PRONUNCIATION: SOUNDS OF AMERICAN ENGLISH, 0 CREDIT

English language learners develop pronunciation skills and knowledge to improve speech clarity, listening effectiveness, and pronunciation of written words. This course focuses on the sounds (phonemes) of American English. Required: Student Petition.

OC LCT	ESOL-075-01 342497 MW				12:30 -1:50 PM	
	K. LONG	\$0.00	\$0.00	\$30.00		\$30.00
	Required: Student Petition.					

ESOL-082 ASSESS/EVALUATE NEW STUDENTS, 0 CREDIT

New students in the ESOL program receive information about classes offered, departmental and college policies, college services available, campus facilities, accessing student portal and email, student responsibilities, and community resources. Students are tested to determine their language levels and class placement. Students select courses with a faculty advisor. This course is used administratively to identify new students in the ESOL department. Required: Student Petition.

ONL NCT	ESOL-082-01 342498					
	L. JOYCE	\$0.00	\$0.00	\$0.00		\$0.00
	Required: Student Petition.					
ONL NCT	ESOL-082-06 342500					
	L. JOYCE	\$0.00	\$0.00	\$0.00		\$0.00
	Required: Student Petition.					

ESOL-083 EDUCATIONAL PLANNING FOR RETURNING STUDENTS, 0 CREDIT

Designed for returning students in the ESOL program at CCC. Students meet with faculty advisors to review their progress, revisit their goals, choose next term's classes, and learn how to transition to other educational and training opportunities at the college and in other community programs. This course is used administratively to identify returning students in the ESOL department. Required: Student Petition.

ONL NCT	ESOL-083-01 342502					
	L. JOYCE	\$0.00	\$0.00	\$0.00		\$0.00
	Required: Student Petition.					
ONL NCT	ESOL-083-06 342504					
	L. JOYCE	\$0.00	\$0.00	\$0.00		\$0.00
	Required: Student Petition.					

English Literature

ENG-108 WORLD LITERATURE: EARLY MIDDLE AGES THROUGH THE 18TH CENTURY, 4 CREDITS

Literature of the Early Middle Ages through the 18th Century, in a variety of genres. Through class discussion, research, and written work, students practice close reading and literary interpretation, explore the readings' contemporary relevance, relate the readings to their own lives and the world, and engage in academic conversations about the literature.

Recommended Prerequisites: WRD-098 or placement in WR-121Z

ONL	ENG-108-01 342976					
	A. WARREN	\$520.00	\$52.00	\$0.00		\$572.00

ENG-202 SHAKESPEARE, 4 CREDITS

Selected comedies, histories, tragedies, romances, and poetry. Students focus on reading and discussion, literary interpretation, and relating Shakespeare's work to their lives and the world. Study of significant plays and sonnets. Works from ENG-202 will not be repeated in CCC's other Shakespeare course, ENG-201.

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
OFF: Other Off-Campus Location

Distance Education Notification:
ONL: Online Only
REM: Remote (w/ scheduled meetings)
HYB: In-person plus online work

Other Coding Translations:
TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text
NCT: No-Cost Text

Course No	Course Title, Credits					
Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total

Recommended Prerequisites: WRD-098 or placement in WR-121Z

OC	ENG-202-01 345553 MW				1-2:50 PM	
	J. DAVIS	\$520.00	\$52.00	\$0.00		\$572.00

ENG-250 GREEK MYTHOLOGY, 4 CREDITS

Explores the historical, cultural, social, and literary significance of Greek myths; views Greek mythology in its historical and geographic positions and in the larger context of Western civilization and literary tradition; considers how studying myth affects and influences reading other works; introduces theoretical approaches to mythology and basic literary elements and terminology.

Recommended Prerequisites: WRD-098 or placement in WR-121Z

OC	ENG-250-01 347685 TTH				10-11:50 AM	
	C. BURNELL	\$520.00	\$52.00	\$0.00		\$572.00

ENG-255 AMERICAN LITERATURE: TOPICS IN AMERICAN LITERATURE, 4 CREDITS

Focus on selected authors and works of American fiction, poetry, nonfiction, and drama. Theme changes yearly.

Recommended Prerequisites: WRD-098 or placement in WR-121Z

ONL	ENG-255-01 345549					
	J. MCALPINE	\$520.00	\$52.00	\$0.00		\$572.00

ENG-260 INTRODUCTION TO WOMEN WRITERS, 4 CREDITS

The study of the works (e.g. plays, poems, fiction, new media) created by women writers, both classic and contemporary, with an emphasis on women's evolving social, historical, and economic roles.

Recommended Prerequisites: WRD-098 or placement in WR-121Z

ONL	ENG-260-01 342989					
	A. WARREN	\$520.00	\$52.00	\$0.00		\$572.00

ENG-272 WORLD LITERATURE: EARLY MIDDLE AGES THROUGH THE 18TH CENTURY, 4 CREDITS

Literature of the Early Middle Ages through the 18th Century, in a variety of genres. Through class discussion, research, and written work, students practice close reading and literary interpretation, explore the readings' contemporary relevance, relate the readings to their own lives and the world, and engage in academic conversations about the literature.

Recommended Prerequisites: WRD-098 or placement in WR-121Z

ONL	ENG-272-01 345552					
	A. WARREN	\$520.00	\$52.00	\$0.00		\$572.00

ENG-296 ADAPTATION: LITERATURE INTO FILM, 4 CREDITS

Adaptation: Literature into Film is an exploration into the study of the art of transforming literary texts into films. The course focuses on various literary genres such as the novel, the short story, the play, and the nonfiction event, and analyzes the process of transforming these stories from page to screen, thereby creating a new art form. Note: This is a literature and not a writing class.

Recommended Prerequisites: WRD-098 or placement in WR-121Z

OC	ENG-296-01 345551 TTH				1-2:50 PM	
	R. DAVIS	\$520.00	\$52.00	\$0.00		\$572.00

Environmental Science

ESR-172 INTRODUCTION TO CLIMATE CHANGE, 4 CREDITS

Introduction to climate change, the causes and consequence and efforts to mitigate climate change. The laboratory assignments will focus on applied introductory climate change topics.

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Crs. Fee	Total
Corequisites: ESR-172L Recommended Prerequisites: MTH-060 with a C or better or placement in MTH-065 Recommended Prerequisites: WRD-098 or placement in WR-121Z									
OC	ESR-172-01 343100 TTH				1-2:20 PM				
	E. CAVALIERE			\$520.00	\$52.00	\$55.00	\$627.00		
	Corequisite: Take 1 of the following ESR-172L-01, ESR-172L-02, ESR-172L-03, ESR-172L-04.								
ONL	ESR-172-02 343103								
	E. CAVALIERE			\$520.00	\$52.00	\$55.00	\$627.00		
	Corequisite: Take 1 of the following ESR-172L-01, ESR-172L-02, ESR-172L-03, ESR-172L-04.								
ONL	ESR-172-03 347578								
	E. CAVALIERE			\$520.00	\$52.00	\$55.00	\$627.00		
	Corequisite: Take 1 of the following ESR-172L-01, ESR-172L-02, ESR-172L-03, ESR-172L-04.								
ONL	ESR-172-15 343104								
	S. BALLEW			\$520.00	\$52.00	\$55.00	\$627.00		

ESR-172L INTRODUCTION TO CLIMATE CHANGE LAB, 0 CREDIT

Lab course for ESR-172

Corequisites: ESR-172

OC	ESR-172L-01 343106 T				9-11:50 AM				
	E. CAVALIERE			\$0.00	\$0.00	\$0.00	\$0.00		
	Corequisite: Take 1 of the following ESR-172-01, ESR-172-02.								
OC	ESR-172L-02 343108 W				9-11:50 AM				
	D. HUFFORD			\$0.00	\$0.00	\$0.00	\$0.00		
	Corequisite: Take 1 of the following ESR-172-01, ESR-172-02.								
OC	ESR-172L-03 343109 W				1-3:50 PM				
	E. CAVALIERE			\$0.00	\$0.00	\$0.00	\$0.00		
	Corequisite: Take 1 of the following ESR-172-01, ESR-172-02.								
OC	ESR-172L-04 347590 TH				2:30 -5:20 PM				
	E. CAVALIERE			\$0.00	\$0.00	\$0.00	\$0.00		
	Corequisite: Take 1 of the following ESR-172-01, ESR-172-02, ESR-172-03.								
HAR	ESR-172L-15 343110 TH				6-8:50 PM				
	S. BALLEW			\$0.00	\$0.00	\$0.00	\$0.00		

Ethnic Studies**ES-221 INTRODUCTION TO BLACK STUDIES, 4 CREDITS**

This is an introductory and survey course which analyzes factors that helped mold the African American experience, beginning with pre-colonial Africa to US contemporary socio-political, cultural, educational, and economic issues relevant to descendants of the African diaspora. Provides counter narratives to dominant perspectives on race, ethnicity, and Black identity.

Prerequisites: WRD-098 or placement in WR-121Z

ONL	ES-221-01 342996								
	TBA			\$520.00	\$52.00	\$0.00	\$572.00		

ES-231 INTRODUCTION TO SOUTHEAST ASIAN AND SOUTH PACIFIC ISLAND DIASPORA STUDIES, 4 CREDITS

This course will examine key migration and dispersion factors, and cultural adjustment and resettling challenges of the Southeast Asian and Pacific Island Diaspora in the United States from the late 19th Century through the present. These analyses will center Southeast Asian and Pacific Island counternarrative and ethnography through literature, history, anthropology, and political scholarship.

Prerequisites: WRD-098**Recommended Prerequisites:** WR-121Z

ONL NCT	ES-231-01 347513								
	K. BACA			\$520.00	\$52.00	\$0.00	\$572.00		
	L. MARTINEZ								

Family Studies**HDF-225 PRENATAL, INFANT & TODDLER DEVELOPMENT, 3 CREDITS**

Explores the principles of child development, prenatal through three years of age. Emphasis will be placed on the physical, cognitive, and social-emotional development of young children. The impact of family dynamics, culture and socio-economic status on children's development will be explored.

ONL LCT	HDF-225-01 343141								
	D. GLASCOCK			\$390.00	\$39.00	\$0.00	\$429.00		
	Meets: 2/9-3/14. This is an accelerated 5-week course that is all online with no synchronous meetings.								

HDF-247ES DESARROLLO Y CRECIMIENTO EN LA NIÑEZ: PREESCOLAR HASTA LA ADOLESCENCIA, 4 CREDITS

Este curso se enfoca en los principios del desarrollo en niños de tres años hasta la adolescencia, incluyendo el crecimiento, y la evolución física, cognitiva, social y emocional. Explora las principales teorías históricas del desarrollo infantil y las investigaciones y prácticas actuales. Se incluye un enfoque en cómo la cultura, la dinámica familiar y el estatus socioeconómico impactan el crecimiento y el desarrollo de los niños.

Prerequisites: ECE-150ES, FYE-101ES, and HDF-225ES

REM LCT ESPAÑOL	HDF-247ES-01 343148 TH				6-7:50 PM				
	P. ALVARADO			\$520.00	\$52.00	\$0.00	\$572.00		
	La clase se reúne seis jueves por Zoom de 6:00-7:50pm. (1/8, 1/22, 2/5, 2/19, 3/5, 3/19).								

HDF-260 UNDERSTANDING CHILD ABUSE AND NEGLECT, 3 CREDITS

In this course, students will receive an overview of child abuse and neglect. Students will examine the types and causes of abuse, abused children, abusive parents, treatment, education and prevention, and resources available to assist children and families. An emphasis is placed on intervention and mandatory reporting, as well as risks and outcomes. This course discusses the investigation process of child welfare and forensic interviewing of abused children. Students will also learn about the signs and symptoms of abuse and how trauma impacts an individual's health across a lifetime.

ONL	HDF-260-01 343152								
	C. BAKER			\$390.00	\$39.00	\$0.00	\$429.00		

Fire Science (Wildland)**FRP-130 INTRODUCTION TO WILDLAND FIREFIGHTING (S-130/S-190/S-110/CS-100/IS-700/L-180), 3 CREDITS****Campus Locations:**

HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
OFF: Other Off-Campus Location

Distance Education Notification:

ONL: Online Only
REM: Remote (w/ scheduled meetings)
HYB: In-person plus online work

Other Coding Translations:

TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español

LCT: Low-Cost Text
NCT: No-Cost Text

Course Listing

2026/WI

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Tuition	Fee	Crs. Fee	Total
	This course provides an introduction to wildland fire behavior, wildland firefighting safety and wildland firefighting techniques. The course covers the basic skills necessary to fight wildland fires under close supervision. NWCG Courses completed in class include S-130, S-190, S-110, L-180, IS-100 and IS-700. This course also includes the Work Capacity Test (WCT) which is needed for employment. Completion of firefighter field day is required to pass this course.								
oc	FRP-130-01 344981 FSSU 8-5:00 PM B. ESTES Meets: 2/20-3/1.					\$390.00	\$39.00	\$50.00	\$479.00
FRP-200	BASIC INCIDENT COMMAND SYSTEM (I-100, I-200, IS-700, IS-800), 4 CREDITS Introduces the knowledge and skills to function efficiently during an incident or event within the Incident Command System (ICS). National Incident Management System (NIMS) and the National Response Framework (NRF) provide a consistent nationwide template to enable all government, private-sector, and nongovernmental organizations to work together during domestic incidents.								
oc HYB	FRP-200-01 347543 W 12-1:50 PM J. GULLEY					\$520.00	\$52.00	\$0.00	\$572.00
FRP-215	FIRE OPERATIONS IN THE URBAN INTERFACE (S-215), 2 CREDITS Assess homes and structures located in and around forest, grass and brush lands (urban interface) for vulnerability to a wildland fire. Prerequisites: FRP-130 (S-130/S-190/L-180)								
oc	FRP-215-01 347624 FS 8:30 -5:00 PM K. GEARY Meets: 3/13-3/14.					\$260.00	\$26.00	\$20.00	\$306.00
FRP-244	WILDERNESS II: BASIC LAND NAVIGATION (S-244), 3 CREDITS Students will learn how to make and document field observations, how to produce hand drawn and GPS field maps, and how to navigate using a map, compass, and GPS. Prerequisites: FRP-130 (S-130/S-190/L-180) Recommended Prerequisites: FRP-290 (S-290)								
oc HYB LCT	FRP-244-01 342646 FS 8:30 -3:00 PM J. GULLEY M. SNYDER Meets: 1/30-2/7.					\$390.00	\$39.00	\$50.00	\$479.00
FRP-246	WILDERNESS IV: BACKCOUNTRY CPR/FIRST AID/AED, 4 CREDITS Introduction to general medical concepts and basic life support skills. It is targeted to the outdoor enthusiast on day trips or short adventures. Course results in CPR, first aid & AED certification and Wilderness First Aid certification.								
oc	FRP-246-01 342649 FSSU 8:30 -5:00 PM B. ESTES Meets: 1/9-1/18.					\$520.00	\$52.00	\$50.00	\$622.00
FRP-249	FOLLOWERSHIP TO LEADERSHIP (L-280), 2 CREDITS The course prepares the student for a basic field operations leadership role. Students will be able demonstrate basic leadership skills through interactive classroom discussions and scenario based exercises.								
oc	FRP-249-01 347544 FS 8-5:00 PM J. GULLEY Meets: 3/13-3/14.					\$260.00	\$26.00	\$30.00	\$316.00
FRP-250	WILDERNESS VI: BASIC TOOL USE AND CARE, 1 CREDIT Selection, operation, and maintenance of chain saws and hand tools to include shovels, Pulaski, single and double bit axes, hand saws, and various other tools used in forestry, firefighting and survival activities. Class includes a lab component.								
oc	FRP-250-01 342652 T 10-11:50 AM J. GULLEY					\$130.00	\$13.00	\$125.00	\$268.00
FRP-255	PHYSICAL FITNESS AND NUTRITION FOR FIRST RESPONDERS, 2 CREDITS This course will assist the student in meeting the physical fitness requirements for work in firefighting, and emergency medical services. Includes individual conditioning strategies, nutritional guidelines, basic exercise principles, pre-employment and lifelong fitness and conditioning. The course will prepare students for activities like the Candidate Physical Abilities Test (CPAT), work capacity test and other physical ability tests required for first responders. May be repeated for up to 6 credits. Required: Complete a physical performed by a licensed physician prior to attending Recommended: Have adequate outdoor exercise attire and be prepared for arduous physical activity								
oc	FRP-255-01 342656 MTH 8-9:50 AM J. GULLEY					\$260.00	\$26.00	\$0.00	\$286.00
FRP-265	WILDLAND FIRE PREVENTION EDUCATION 1 (P-101), 3 CREDITS This course was developed as part of a multi-course national curriculum covering wildfire prevention. It is designed to provide a basic introduction of fire prevention principles and activities for fire prevention specialists, fire managers, public information officers and others who have wildland fire prevention, education, or mitigation responsibilities. Course equivalent to NWCG P-101 Fire Prevention Education 1. Prerequisites: FRP-130 (S-130/S-190/L-180)								
oc	FRP-265-01 342659 TH 10-1:30 PM J. GULLEY					\$390.00	\$39.00	\$0.00	\$429.00

First Year Experience (FYE)

FYE-101 FIRST YEAR EXPERIENCE LEVEL I, 2 CREDITS

This is the first course in a 3-course sequence designed to help students adjust to a new campus, connect with other students, understand college expectations and systems, and access services available through the college. The First Year Experience Level I course is designed to help students in developing relationships with students and faculty, and to build student behaviors for successfully completing classes and continuing college through to completion.

oc LCT	FYE-101-01 343001 M 9-10:50 AM T. BOYLE- GALESTIANZ Contact: counseling@clackamas.edu.					\$260.00	\$26.00	\$12.00	\$298.00
oc LCT	FYE-101-02 343007 T 1-2:50 PM TBA Contact: counseling@clackamas.edu.					\$260.00	\$26.00	\$12.00	\$298.00

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Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Total
Instructor							Crs. Fee	
OC LCT	FYE-101-03 343010 W						10-11:50 AM	
	J. CORTES		\$260.00	\$26.00	\$12.00	\$298.00		
	Contact: counseling@clackamas.edu.							
OC LCT	FYE-101-04 343012 T						2-3:50 PM	
	J. CORTES		\$260.00	\$26.00	\$12.00	\$298.00		
	Contact: counseling@clackamas.edu.							

FYE-101ES EXPERIENCIA DE PRIMER AÑO (FIRST YEAR EXPERIENCE EN ESPAÑOL), 2 CREDITS

Este es el primer curso en la serie de 3 clases diseñadas para ayudar a los estudiantes novatos o que inician apenas su trayectoria estudiantil, con el ajuste a un plantel nuevo, a conectar con otros alumnos, a entender las expectativas del sistema estudiantil, y a familiarizarse con la fuente de servicios al alcance del estudiante. First Year Experience (Experiencia de Primer Año) está diseñada para preparar a los estudiantes a entablar nexos entre estudiante y profesorado, y con el desarrollo de prácticas exitosas para concluir clases y continuar con el estudio hasta la culminación de metas académicas.

REM LCT ESPAÑOL	FYE-101ES-01 343022 M						6-7:50 PM	
	L. MARTINEZ		\$260.00	\$26.00	\$12.00	\$298.00		
	Contact: counseling@clackamas.edu.							

FYE-102 FIRST YEAR EXPERIENCE LEVEL II, 1 CREDIT

This course is a second in the First Year Experience sequence offered to new CCC students. This course is designed for students who want to continue to delve in depth into future educational and career planning, financial aid and scholarships, applied study skills, and college and community resources.

Prerequisites: FYE-101

ONL LCT	FYE-102-01 343027							
	D. GREEN		\$130.00	\$13.00	\$12.00	\$155.00		
	Contact: counseling@clackamas.edu.							

Food & Nutrition

FN-110 PERSONAL NUTRITION, 3 CREDITS

This course explores how nutrition affects health and fitness for the individual and the family. Students apply knowledge of nutrition guidelines to analyze personal diet and improve current food preparation and habits. It is a basic nutrition course for students with little or no science background.

ONL	FN-110-01 342207							
	T. SCOLLARD		\$390.00	\$39.00	\$86.40	\$515.40		
	Online textbook included in section fees.							

FN-225 NUTRITION, 4 CREDITS

This course explores the role of nutrients in the development and maintenance of a healthy body. The course examines the relationship between diet and health. Students apply knowledge of nutritional adequacy through computer-aided diet analysis. It discusses current nutrition recommendations and controversies. The course meets requirements for most nursing programs.

Recommended: A strong background in anatomy and physiology, biology or chemistry

ONL	FN-225-01 342208							
	T. SCOLLARD		\$520.00	\$52.00	\$121.88	\$693.88		
	Online textbook included in section fees.							
ONL	FN-225-02 342209							
	J. PAVLINAC		\$520.00	\$52.00	\$121.88	\$693.88		
	Online textbook included in section fees.							

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Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Total
Instructor							Crs. Fee	
ONL	FN-225-03 342210							
	T. SCOLLARD		\$520.00	\$52.00	\$105.84	\$677.84		
	Online textbook included in section fees.							

General Development Education (GED)

GED Classes offered Days and Evenings

Students will be placed in the appropriate class based on their schedules and intake assessments. Please call 503-594-3028 for orientation information.

GED-011 GED IN ESPAÑOL, 0 CREDIT

Instrucción del desarrollo de habilidades básicas ofrecida en español. Un examen de diagnóstico determina las necesidades académicas del alumno. Inscripción y terminación del curso todo el tiempo durante el trimestre, se ofrece en Harmony center y Oregon City campus. Se requiere el consentimiento del Instructor para registrarse. Basic academic instruction offered in Spanish. Diagnostic tests determine individual academic needs. Open-entry, open-exit class offered at Harmony center and Oregon City campus. Required: Student Petition.

REM LCT ESPAÑOL	GED-011-01 343032 MW						5:30 -7:50 PM	
	A. ARISTIZABAL		\$0.00	\$0.00	\$50.00	\$50.00		
	Requerido: petición del estudiante. Contact: Adriana Aristizabal at 503-594-3916.							
HAR LCT ESPAÑOL	GED-011-02 343042 TTH						6-8:50 PM	
	C. SANCHEZ		\$0.00	\$0.00	\$50.00	\$50.00		
	Requerido: petición del estudiante. For registration information contact Camilo Sanchez at 503-594-3029 or register at first class.							

GED-015 GED PREPARATION, 0 CREDIT

Basic academic skill development preparing for the GED 2014 tests and transition to career or post-secondary education. Course focuses primarily on language arts, math and technology skills. Provides direction and support for transitioning students. Required: Student Petition.

OC LCT	GED-015-17 343050 MW						5:30 -7:50 PM	
	A. WICKERT		\$0.00	\$0.00	\$50.00	\$50.00		
	Required: Student Petition.							
HAR HYB LCT	GED-015-67 343055 MW						10-11:50 AM	
	L. NIELSON		\$0.00	\$0.00	\$55.00	\$55.00		
	Required: Student Petition.							
ONL LCT	GED-015-68 343056							
	S. HATSWELL		\$0.00	\$0.00	\$55.00	\$55.00		
	Required: Student Petition.							
ONL LCT	GED-015-69 343058							
	L. NIELSON		\$0.00	\$0.00	\$55.00	\$55.00		
	Required: Student Petition.							
OC LCT	GED-015-80 343060 MTWTH						10-11:50 AM	
	J. NIELSON		\$0.00	\$0.00	\$55.00	\$55.00		
	Required: Student Petition.							

GED-049 LATINO GED & LIFE SKILLS, 0 CREDIT

Course No	Course Title, Credits					
Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Crs. Fee	Total

Desarrollo de habilidades académicas básicas, ofrecida en español con énfasis en los requerimientos para presentar el test del GED para obtener el certificado equivalente a la High School. También se enfoca en habilidades básicas de la vida, metas personales e interés de carreras. Se requiere el consentimiento del Instructor para registrarse. Offered in Spanish. Basic academic skill development with emphasis on requirements to take the GED test to obtain a high school equivalency certificate. Also focuses on basic life skills, personal and career goals and interests. Required: Student Petition.

REM LCT ESPAÑOL	GED-049-02	343064 TTH			6-8:50 PM	
	A. ARISTIZABAL	\$0.00	\$0.00	\$50.00		\$50.00
	Requerido: petición del estudiante.					
HAR LCT ESPAÑOL	GED-049-03	343071 MW			9-11:50 AM	
	C. SANCHEZ	\$0.00	\$0.00	\$50.00		\$50.00
	Requerido: petición del estudiante. For registration information contact Camilo Sanchez at 503-594-3029 or register at first class.					
HAR LCT ESPAÑOL	GED-049-04	343075 S			9-11:50 AM	
	M. ROSAS DELGADO	\$0.00	\$0.00	\$30.00		\$30.00
	Requerido: petición del estudiante.					

General Science

GS-104 EARTH SYSTEM SCIENCE, 4 CREDITS

A lab course designed to give an overview of the physical sciences by examining the relationship between physics, chemistry and geology in the natural world. Topics include plate tectonics, the Earth's structure, earthquakes/hazards, mineral chemistry, igneous rocks, and volcanoes/hazards.

Corequisites: GS-104L

Recommended Prerequisites: MTH-065 or placement in MTH-095

OC	GS-104-01	347592 TTH			10-11:20 AM	
	TBA	\$520.00	\$52.00	\$50.00		\$622.00
	Corequisite: Take the following GS-104L-01.					

GS-104L EARTH SYSTEM SCIENCE LAB, 0 CREDIT

Lab course for GS-104

Corequisites: GS-104

OC	GS-104L-01	347593 W			1-3:50 PM	
	TBA	\$0.00	\$0.00	\$0.00		\$0.00
	Corequisite: Take the following GS-104-01.					

GS-107 ASTRONOMY, 4 CREDITS

A lab course including the history of astronomy, the Earth and moon, all planets in our solar system, along with asteroids, meteors and comets.

Corequisites: GS-107L

Prerequisites: MTH-065 or MTH-098 with a C or better or placement in MTH-095

Prerequisites: WRD-090 or placement in WRD-098

ONL LCT	GS-107-40	343130				
	C. SHARON	\$520.00	\$52.00	\$25.00		\$597.00

GS-107L ASTRONOMY LAB, 0 CREDIT

Lab course for GS-107

Corequisites: GS-107

ONL	GS-107L-40	343133				
	C. SHARON	\$0.00	\$0.00	\$0.00		\$0.00

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Geographic Information Systems

All degree seeking students should arrange to speak to a faculty advisor prior to registering. Call 503-594-3678 for more information, or contact Advising, 503-594-3475.

GIS-101 MAPS AND GEOSPATIAL TECHNOLOGY, 4 CREDITS

This course provides an overview of the concepts and principles of geospatial technology using lab activities to explore maps, geospatial data, and geospatial software. Major themes include maps and cartography, geographic information systems, spatial data, global navigation satellite systems, remote sensing, terrain analysis, web maps, and the geospatial industry.

OC HYB	GIS-101-01	347546 W			10-11:50 AM	
	A. ARMEN	\$520.00	\$52.00	\$30.00		\$602.00

GIS-201 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS, 4 CREDITS

This course explores fundamental geographic information systems (GIS) concepts utilizing hands-on application through various laboratory exercises with industry-standard ArcGIS software. The class explores basic map principles, cartographic design, geodesy, and geospatial data manipulation while exploring ArcGIS Online to create, display, query, relate, classify, and analyze spatial data to create maps and answer geographic questions.

ONL	GIS-201-01	342661				
	A. ARMEN	\$520.00	\$52.00	\$40.00		\$612.00

GIS-202 GIS APPLICATIONS, 4 CREDITS

This class follows the introductory course as a continuation of Geographic Information Systems (GIS). Topics explored include working with geodatabases, topology, vector and raster analysis, and creating and editing data. Students also practice key GIS project management processes, workflows, and best practices through an analysis project.

Recommended Prerequisites: GIS-201

ONL	GIS-202-01	342663				
	A. ARMEN	\$520.00	\$52.00	\$40.00		\$612.00

GIS-236 PROGRAMMING FOR GIS, 4 CREDITS

An introduction to computer programming and Object Oriented Programming (OOP) with Python. Covers basic computer programming concepts including data types, loops, control structures, functions, classes, and program development. Use Python for problem solving by creating basic scripts for more advanced object-oriented programs.

ONL	GIS-236-01	342666				
	A. ARMEN	\$520.00	\$52.00	\$30.00		\$602.00

GIS-238 GIS WEB MAPPING, 4 CREDITS

This class is an introduction to interactive map making using ArcGIS Online. Topics for online map making will be explored including web cartography, interactive map elements, mobile data collection, geospatial data from community science, and ArcGIS Online apps. Students will get the chance to create interactive map products.

Recommended: Familiarity with GIS software and applications

ONL	GIS-238-01	347547				
	L. COX	\$520.00	\$52.00	\$20.00		\$592.00

GIS-280 GIS/CWE, 2-6 CREDITS (VAR)

Course No	Course Title, Credits					
Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time			
Instructor	Tuition	Fee	Crs. Fee	Total		

Cooperative work experience. Provides students with on-the-job work experience in the field of geographic information systems. This class is intended for students who are completing their Geographic Information Systems (GIS) Technology Certificate. Required: Student Petition.

Corequisites: CWE-281

Prerequisites: GIS-201

oc	GIS-280-01	342667				
	A. ARMEN	\$780.00	\$78.00	\$45.00	\$903.00V	
	Required: Student Petition.					

Geography

GEO-100 INTRODUCTION TO PHYSICAL GEOGRAPHY, 4 CREDITS

Analyzes the physical elements of the Earth's surface and atmosphere. Focuses on natural processes that create physical diversity on the Earth including weather and climate, biosphere, soils and landforms and explores how these influence human cultural settlement activities.

Recommended Prerequisites: WRD-090 or placement in WRD-098

ONL	GEO-100-01	343081				
	C. FELDMAN	\$520.00	\$52.00	\$101.32	\$673.32	
	Online textbook included in section fees.					

GEO-110 CULTURAL & HUMAN GEOGRAPHY, 4 CREDITS

Introduces geographical perspectives on human population, agriculture, political pattern, language, religion, folk culture, popular culture, ethnic culture, urban development, industry, and transportation as these play out on the diverse landscapes of the world.

Recommended Prerequisites: WRD-090 or placement in WRD-098

ONL NCT	GEO-110-01	343083				
	C. FELDMAN	\$520.00	\$52.00	\$0.00	\$572.00	

GEO-208 GEOGRAPHY OF THE UNITED STATES & CANADA, 4 CREDITS

Provides students with the fundamental geographical knowledge of the United States and Canada and their paths of development. Presents the spatial arrangement of culture, economics, politics, and the natural environment.

Recommended Prerequisites: WRD-090 or placement in WRD-098

ONL	GEO-208-01	345538				
	A. ARMEN	\$520.00	\$52.00	\$0.00	\$572.00	

GEO-280 GEOGRAPHY/CWE, 2-6 CREDITS (VAR)

Cooperative work experience. Provides students with on-the-job work experience in the field of geography. Required: Student Petition.

Corequisites: CWE-281

OC NCT	GEO-280-01	343088				
	C. FELDMAN	\$780.00	\$78.00	\$45.00	\$903.00V	
	D. LOUGEE	Required: Student Petition. Corequisite: Take the following CWE-281-06.				

Geology

G-102 GENERAL GEOLOGY, 4 CREDITS

For non-science majors. An introductory lab course that explores the Earth's systems and surface features. Systems/processes/hazards explored include rivers, mass wasting, glaciers, groundwater, and deserts. Labs focus on geologic and topographic maps and how they are used to understand geologic features and local geology.

Campus Locations:

HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
OFF: Other Off-Campus Location

Distance Education Notification:

ONL: Online Only
REM: Remote (w/ scheduled meetings)
HYB: In-person plus online work

Other Coding Translations:

TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español

LCT: Low-Cost Text
NCT: No-Cost Text

Course No	Course Title, Credits					
Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time			
Instructor	Tuition	Fee	Crs. Fee	Total		

Corequisites: G-102L

Recommended Prerequisites: WRD-090 or placement in WRD-098

ONL	G-102-01	343112				
	A. KOTASH	\$520.00	\$52.00	\$50.00	\$622.00	
	This section has remote lectures and on-campus exams. Midterm and Final are on campus on February 7th (Wednesday week 5) and March 18th (Monday of final week). Students will need to come to campus to take exams. Corequisite: Take 1 of the following G-102L-01, G-102L-02.					
OC	G-102-02	343114 TTH		10-11:20 AM		
	A. KOTASH	\$520.00	\$52.00	\$50.00	\$622.00	
	This section has an in-person lab. Corequisite: Take 1 of the following G-102L-01, G-102L-02.					
REM	G-102-20	343115 T		6-8:50 PM		
	J. WOODCOCK	\$520.00	\$52.00	\$50.00	\$622.00	

G-102L GENERAL GEOLOGY LAB, 0 CREDIT

Lab course for G-102

Corequisites: G-102

OC	G-102L-01	343116 T		1-3:50 PM		
	A. KOTASH	\$0.00	\$0.00	\$0.00	\$0.00	
	Corequisite: Take 1 of the following G-102-01, G-102-02.					
OC	G-102L-02	343118 TH		1-3:50 PM		
	A. KOTASH	\$0.00	\$0.00	\$0.00	\$0.00	
	Corequisite: Take 1 of the following G-102-02, G-102-01.					
HAR	G-102L-20	343119 TH		6-8:50 PM		
	J. WOODCOCK	\$0.00	\$0.00	\$0.00	\$0.00	

G-202 GENERAL GEOLOGY, 4 CREDITS

For science majors. A lab course that explores surface features of the Earth and the systems that form those features.

Systems/processes/hazards explored include rivers, mass wasting, glaciers, groundwater and deserts. Topographic/geologic maps are used to understand geologic features and local geology.

Prerequisites: G-201 with a C or better

Corequisites: G-202L

ONL	G-202-01	343121				
	A. KOTASH	\$520.00	\$52.00	\$50.00	\$622.00	
	This section has remote lectures and on-campus exams. Midterm and Final are on campus on February 7th (Wednesday week 5) and March 18th (Monday of final week). Students will need to come to campus to take exams. Corequisite: Take 1 of the following G-202L-02, G-202L-01.					
OC	G-202-02	343122 TTH		10-11:20 AM		
	A. KOTASH	\$520.00	\$52.00	\$50.00	\$622.00	
	This section has an in-person lab. Corequisite: Take 1 of the following G-202L-02, G-202L-01.					
REM	G-202-20	343123 T		6-8:50 PM		
	J. WOODCOCK	\$520.00	\$52.00	\$50.00	\$622.00	

G-202L GENERAL GEOLOGY LAB, 0 CREDIT

Lab course for G-202

Corequisites: G-202

OC	G-202L-01	343124 T		1-3:50 PM		
	A. KOTASH	\$0.00	\$0.00	\$0.00	\$0.00	
	Corequisite: Take 1 of the following G-202-01, G-202-02.					
OC	G-202L-02	343125 TH		1-3:50 PM		
	A. KOTASH	\$0.00	\$0.00	\$0.00	\$0.00	
	Corequisite: Take 1 of the following G-202-01, G-202-02.					
HAR	G-202L-20	343127 TH		6-8:50 PM		
	J. WOODCOCK	\$0.00	\$0.00	\$0.00	\$0.00	

Course No	Course Title, Credits		Days (M,T,W,Th,F,S,SU)				Time	Total
	Section No	Crs Reg.	Tuition	Fee	Crs. Fee			
	Instructor							

Gerontology

GRN-181 ISSUES IN AGING, 3 CREDITS

Provides an introduction to gerontology including the history of aging and current issues. Covers: myths, stereotypes, economic and political aspects, demographics and service availability for aging populations.

ONL	GRN-181-01	347575						
	Y. SMITH		\$390.00	\$39.00	\$0.00			\$429.00

GRN-280 GERONTOLOGY/CWE, 2-6 CREDITS (VAR)

Cooperative work experience. Acquaint gerontology students with the roles and related activities of organizations serving the elderly. This course provides an opportunity to apply theories and techniques learned in the classroom. May be repeated for up to 6 credits. Required: Student Petition.

Prerequisite or Corequisite: HS-170

Corequisites: HS-270

HAR	GRN-280-01	342188						
	J. LOVELESS		\$780.00	\$78.00	\$45.00			\$903.00V
	Required: Student Petition.							

Health

HE-163 BODY & DRUGS I: INTRODUCTION TO ABUSE & ADDICTION, 3 CREDITS

The first of a four-course sequence, this course examines the history of the use of addictive drugs, the definition of addiction, psychosocial and neurobiological causes of drug and behavioral addiction, addictive drug classifications, and the history of/introduction to addiction treatment, and access and utilize effective resources to improve and maintain mental and physical wellbeing.

ONL	HE-163-01	343136						
	T. PANTAGES		\$390.00	\$39.00	\$0.00			\$429.00
ONL	HE-163-02	343138						
	T. PANTAGES		\$390.00	\$39.00	\$0.00			\$429.00

HE-164 BODY & DRUGS II: ALCOHOL, 3 CREDITS

The second of a four-course offering. Covers beverage alcohol as a drug, the history of alcohol use/abuse, physiological and psychological effects of alcohol use on the user, and the impact of that use on those around the user and on society at large, access and utilize effective resources to improve and maintain mental and physical wellbeing.

Prerequisites: HE-163

ONL	HE-164-01	343140						
	T. PANTAGES		\$390.00	\$39.00	\$0.00			\$429.00

HE-201 PERSONAL TRAINING, 3 CREDITS

Students will follow the curriculum for the National Council on Strength and Fitness (NCSF) Certified Personal Trainer certification. The course will guide students through the expectations, requirements, processes and knowledge to prepare to become a certified Personal Trainer through the NCSF. Through videos, lecture and self-study, students will be prepared to take the NCSF Certified Personal Training exam, which is offered through the NCSF and is not included in the course.

Recommended Prerequisites: PE-240

ONL	HE-201-01	343142						
	T. NELSON		\$390.00	\$39.00	\$0.00			\$429.00

HE-204 NUTRITION & WEIGHT CONTROL, 3 CREDITS

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Other Coding Translations:
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ESPAÑOL: Enseñado en español
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Course No	Course Title, Credits		Days (M,T,W,Th,F,S,SU)				Time	Total
	Section No	Crs Reg.	Tuition	Fee	Crs. Fee			
	Instructor							

Methods of maintaining or improving nutrition by considering diets and dieting, obesity, types of exercise, physical testing, cardio-vascular fitness and nutritional concepts.

ONL	HE-204-01	343143						
	J. BUEL		\$390.00	\$39.00	\$0.00			\$429.00

HE-223 SPORTS NUTRITION, 3 CREDITS

Examination of nutrition as it relates to the demands of exercise and competitive sport. Emphasis on the relationship of diet and exercise to optimal health and performance. This course can lead to a certification as a sports nutritionist through the NCSF.

ONL	HE-223-01	343149						
	J. BUEL		\$390.00	\$39.00	\$0.00			\$429.00

HE-249 MENTAL HEALTH, 3 CREDITS

Designed for each student to understand and improve their personal mental health. Teaches theories of mental health as well as practical strategies for improving one's level of mental health. Analyzes factors that may impede optimal mental health, again with practical solutions for minimizing/avoiding such factors.

REM NCT	HE-249-01	343150 MW					1-2:20 PM	
	K. WOODS		\$390.00	\$39.00	\$0.00			\$429.00

HE-250 PERSONAL HEALTH, 3 CREDITS

This course is designed to help students gain an overall understanding of information basic to the field of health, to help them critically evaluate health information, and to promote positive attitudes, values, and behaviors in regard to personal health.

ONL	HE-250-04	343156						
	J. RHODEN		\$390.00	\$39.00	\$0.00			\$429.00
ONL	HE-250-05	343162						
	J. RHODEN		\$390.00	\$39.00	\$0.00			\$429.00
	Meets: 2/16-3/21.							

HE-252 FIRST AID/CPR/AED, 3 CREDITS

This course supports the American Red Cross program for First Aid/CPR/AED and will teach participants the knowledge and skills needed to give immediate care to an injured or ill person and to decide whether advanced medical care is needed. Successful completion of the course leads to a Red Cross First Aid/CPR/AED certification for the lay responder.

ONL	HE-252-01	343164						
	K. WOODS		\$390.00	\$39.00	\$35.00			\$464.00
ONL	HE-252-03	343166						
	T. NELSON		\$390.00	\$39.00	\$35.00			\$464.00
ONL	HE-252-05	343168						
	K. ARIZO		\$390.00	\$39.00	\$35.00			\$464.00

Health & Fitness

HPE-295 HEALTH & FITNESS FOR LIFE, 3 CREDITS

This course explores interaction of the nine dimensions of wellness (health). All of the related assignments are online. Students will assess their level of the health related components of fitness and develop an exercise plan for maintenance/improvement. Students are expected to spend a minimum of 3 hours per week exercising. Related topics include: nutrition, stress reduction, relaxation techniques, goal setting, and weight control.

Recommended: A completed physical by a doctor

Course No	Course Title, Credits					
	Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Total
ONL	HPE-295-01 343215					
	J. RHODEN			\$390.00	\$39.00	\$30.00
ONL	HPE-295-02 343221					
	T. NELSON			\$390.00	\$39.00	\$30.00

HPE-295ES SALUD Y APTITUD FÍSICA PARA LA VIDA, 3 CREDITS

Este curso analiza la interacción entre las nueve dimensiones del bienestar (la salud). Todas las tareas relacionadas se realizan en línea. Los estudiantes evaluarán su nivel de los componentes de la aptitud física relacionados con la salud y desarrollarán un plan de ejercicios para mantener o mejorar dicha aptitud física. Se espera que los estudiantes hagan ejercicio 3 horas a la semana como mínimo. Los temas relacionados incluyen lo siguiente: nutrición, reducción del estrés, técnicas de relajación, fijación de metas y control del peso.

Recommended: Examen físico realizado por un médico

ONL	HPE-295ES-01 347576					
ESPAÑOL	E. COLON-CORTES			\$390.00	\$39.00	\$30.00
						\$459.00

Health Professions

HP-100 HEALTHCARE PROVIDER BLS/CPR, FIRST AID/BLOODBORNE PATHOGENS, 1 CREDIT

Introduces CPR, first aid, and bloodborne pathogens to individuals working in healthcare environments, home, and community settings. Covers skills to perform CPR and operate an Automatic External Defibrillator (AED) for adults/children/infants. Includes citizen-level first aid for providing initial care to persons injured or stricken by sudden illness where help is not immediately available. Covers how to minimize communicable disease transmission while providing emergency care.

Recommended: Computer access with internet capabilities

Recommended Prerequisites: WRD-098

HAR HYB	HP-100-01 344855 TBA					
	S. COOPER			\$130.00	\$13.00	\$15.00
	Additional costs associated with this course include: \$22 Bloodborne Pathogens Certificate, \$36 CPR Card, \$16.50 First Aid Certificate for a total of \$74.50 additional cost. In-person date and times: Friday, February 27th at 8:30am - 12:00pm or 1:00pm - 4:30pm.					\$158.00

HP-110 MEDICAL TERMINOLOGY, 4 CREDITS

This course provides the foundational principles required for understanding medical terms used to communicate effectively within the healthcare field. This includes word meaning and discerning the difference between look-alike and sound-alike words through correct spelling and pronunciation. Students will develop the ability to read and comprehend the content of medical records and reports. Through the review of body systems this course includes introductions to disease processes, basic anatomy and physiology and associated terminology.

ONL	HP-110-01 344857					
	S. DAVENPORT			\$520.00	\$52.00	\$156.56
	Online textbook included in section fees.					\$728.56
ONL	HP-110-02 344859					
	W. HARTJE			\$520.00	\$52.00	\$156.56
	Online textbook included in section fees.					\$728.56
ONL	HP-110-03 344860					
	J. LAFRANCE			\$520.00	\$52.00	\$156.56
	Online textbook included in section fees.					\$728.56

HP-130 COMMUNICATIONS AND ETHICAL PRACTICES IN HEALTHCARE SETTINGS, 2 CREDITS

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Course No	Course Title, Credits					
	Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Total

This course will introduce the student to a variety of communications and foundational aspects of patient care of the healthcare professional. Students will be exposed to Electronic Health Records, the importance of documentation and study pertinent laws in a healthcare setting.

Prerequisites: WRD-098 or placement into WR-101

REM	HP-130-01 344861 T					
	C. GARNER			\$260.00	\$26.00	\$0.00
						\$286.00

High School Diploma (AHSD)

The Adult High School Diploma program is designed for students who have earned at least 14 credits. Students who are under 18 years old or whose high school class has not graduated must have an official CCC referral or a release from compulsory attendance to begin the program. Classes are assigned individually. Please contact the Skills Development Department at 503-594-3028.

ASE-042 JOB SKILLS COMPETENCY LAB, 0.5 CREDIT

High school credit only. Provides overview of college and career processes and expectations including cooperative work experience for employed high school students to earn elective credit. Focuses on appropriate work and college behaviors, decision making techniques, communication skills, and teamwork. May be repeated for up to 2 high school credits. Required: Student Petition.

HAR HYB	ASE-042-01 342615 W					
NCT	H. PAZ			\$0.00	\$0.00	\$0.00
	Required: Student Petition.					\$0.00
OC NCT	ASE-042-04 342621 W					
	D. BARE			\$0.00	\$0.00	\$0.00
	Required: Student Petition.					\$0.00

XASE-0001 BASIC ESSENTIAL SKILLS SUPPORT, 0 CREDIT

Offers students academic assessments, coaching, and support to reach basic essential skills competencies necessary for students' program of study. Students utilize computer based material in a self-paced format to improve academic skills, and work with the instructor to develop future plans and set appropriate goals. Students set attainable goals, apply appropriate strategies, and use college resources to meet the competencies necessary to succeed in their academic programs.

OC NCT	XASE-0001-02 343567 MTWTH					
	A. SMITH			\$0.00	\$0.00	\$30.00
	Required: Student Petition.					\$30.00

History

HST-101 HISTORY OF WESTERN CIVILIZATION, 4 CREDITS

Origins and development of Western Civilization with a primary focus on Europe from ancient times to ca. 1300.

Recommended Prerequisites: WRD-090 or placement in WRD-098

ONL NCT	HST-101-01 343177					
	P. MCFARLAND			\$520.00	\$52.00	\$0.00
						\$572.00

HST-102 HISTORY OF WESTERN CIVILIZATION, 4 CREDITS

Origins and development of Western Civilization with an emphasis on Europe from ca. 1300 to 1800.

Recommended Prerequisites: WRD-090 or placement in WRD-098

Course Listing

2026/WI

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
OC HYB NCT	HST-102-01 343181 W							10-11:50 AM		
	P. MCFARLAND					\$520.00	\$52.00	\$0.00		\$572.00
ONL NCT	HST-102-02 343184									
	P. MCFARLAND					\$520.00	\$52.00	\$0.00		\$572.00
HST-131	HISTORY OF CRIME & PUNISHMENT IN WESTERN CIVILIZATION, 4 CREDITS									
Explores the topics of crime and punishment in western civilization from ancient Greece to the present and relates them to the political, social, economic, intellectual and cultural trends of each time period.										
Recommended Prerequisites: WRD-090 or placement in WRD-098										
ONL LCT	HST-131-01 343186									
	P. MCFARLAND					\$520.00	\$52.00	\$0.00		\$572.00
HST-202	HISTORY OF THE UNITED STATES, 4 CREDITS									
Covers the period of United States history from the Age of Jackson to World War I. Recommended that sequence is taken in order.										
Prerequisite or Corequisite: WRD-098 or placement in WR-121Z										
Recommended Prerequisites: Sequence of HST-201, HST-202, and HST-203 is taken in order										
OC	HST-202-01 343190 MW							1-2:50 PM		
	J. PARKER					\$520.00	\$52.00	\$77.50		\$649.50
Online textbook included in section fees.										
ONL	HST-202-02 343192									
	J. PARKER					\$520.00	\$52.00	\$77.50		\$649.50
Online textbook included in section fees.										
HST-280	HISTORY/CWE, 2-6 CREDITS (VAR)									
Cooperative work experience. Provides students with on-the-job work experience in the field of history. Required: Student Petition.										
Corequisites: CWE-281										
OC	HST-280-01 343196									
	P. MCFARLAND					\$780.00	\$78.00	\$45.00		\$903.00V
Required: Student Petition. Corequisite: Take the following CWE-281-06.										
Horticulture/Arboriculture/Landscape/Organic Farming										
<i>For more information call 503-594-3292 or email horticulture@clackamas.edu</i>										
HOR-122	GREENHOUSE I, 3 CREDITS									
Environmental influences on plant growth, crop scheduling, greenhouse structures and equipment. Emphasis on foliage and flowering potted plant production.										
OC	HOR-122-01 343171 TH							8-11:50 AM		
	F. KILDERS					\$390.00	\$39.00	\$50.00		\$479.00
HOR-131	TREE & SHRUB PRUNING, 3 CREDITS									
Emphasis on dormant pruning of fruiting and ornamental plants. Pruning and training techniques for grapes, fruit trees, and both evergreen and deciduous ornamental trees and shrubs. Basic woody plant anatomy, growth and development.										
OC	HOR-131-01 343172 T							8-11:50 AM		
	D. FRANEK					\$390.00	\$39.00	\$40.00		\$469.00
HOR-133	HORTICULTURE PRACTICUM/WINTER, 2 CREDITS									
Practical experience with seasonal (winter) horticulture activities in the areas of container nurseries, greenhouses, and landscape management.										
Prerequisites: HOR-111										
OC	HOR-133-01 343174 M							8-11:50 AM		
	F. KILDERS					\$260.00	\$26.00	\$50.00		\$336.00
	G. LOEFFLER									
HOR-136	ORGANIC FARMING PRACTICUM/WINTER, 3 CREDITS									
Essential organic farming practices, including seasonal activities such as ground preparation and planning for crop production. Also covers farm business structures, financial management, recordkeeping, and marketing and distribution techniques. Field trips to area farms included. Class lecture, field trips, and lab are essential components of this course. This format has been selected to create a hands-on experience for each student in seasonal crop production.										
OC HYB LCT	HOR-136-01 343175 T							8-11:50 AM		
	D. ROSTAD					\$390.00	\$39.00	\$60.00		\$489.00
HOR-140	SOILS, 3 CREDITS									
Soil characteristics and management, including nutritional elements and the relationship between the soil and plant growth.										
OC LCT	HOR-140-01 343176 T							1-3:50 PM		
	D. FRANEK					\$390.00	\$39.00	\$65.00		\$494.00
HOR-216	INTEGRATED PEST MANAGEMENT, 3 CREDITS									
Learn the components of, and develop an Integrated Pest Management (IPM) plan for landscape, nursery, greenhouse or organic farming. The plan will incorporate pest detection, control practices and an evaluation of effectiveness.										
OC LCT	HOR-216-01 343178 W							9-11:50 AM		
	F. KILDERS					\$390.00	\$39.00	\$30.00		\$459.00
HOR-222	HORTICULTURAL COMPUTER APPLICATIONS, 2 CREDITS									
Utilizes database, spreadsheet, word-processing, PowerPoint, social media and other computer programs for record keeping and management and marketing for horticulture businesses.										
Recommended Prerequisites: CS-120 or comparable computer skills										
OC HYB LCT	HOR-222-01 343179 M							1-2:50 PM		
	A. CHASTAIN					\$260.00	\$26.00	\$25.00		\$311.00
Meets: In-person Monday 1/5. Online with optional in-person labs for remainder of term. Class has assignment options for varying skill levels. If you feel you have extensive computer skills please contact april.chastain@clackamas.edu to discuss possibly waiving the class.										
HOR-227	PLANT IDENTIFICATION/WINTER, 4 CREDITS									
Identification of conifers and broadleaf evergreens, shrubs, and groundcovers, including their cultural requirements in the landscape.										
OC LCT	HOR-227-01 343180 T							8-11:50 AM		
	F. KILDERS					\$520.00	\$52.00	\$45.00		\$617.00
OC HYB LCT	HOR-227-02 343182 W							6-8:30 PM		
	TBA					\$520.00	\$52.00	\$15.00		\$587.00
HOR-229	INTRODUCTION TO LANDSCAPE DESIGN, 3 CREDITS									
Introduction to landscape planning, including basic drafting skills, grading, drainage, and site planning.										

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Course Listing

2026/WI

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
OC HYB	HOR-229-01 343183 T							6-9:00 PM		
					S			9-12:00 PM		
	A. WHITWORTH					\$390.00	\$39.00	\$45.00		\$474.00
	Required field trip Sat 1/24.									

HOR-230 EQUIPMENT OPERATION & MAINTENANCE, 2 CREDITS

The selection, safe operation, and maintenance of power driven machines in horticultural operations. Includes hands on experience with mowing equipment, rototillers, chain saws, edgers, shears, tractors, chippers, and skid steer.

Corequisites: HOR-230L

ONL	HOR-230-01 343185									
	S. CROSSWHITE					\$260.00	\$26.00	\$75.00		\$361.00

HOR-230L EQUIPMENT OPERATION & MAINTENANCE LAB, 0 CREDIT

Lab course for HOR-230

Corequisites: HOR-230

oc	HOR-230L-01 343187 TH							9-11:50 AM		
	S. CROSSWHITE					\$0.00	\$0.00	\$0.00		\$0.00
	E. ROBERTS									
oc	HOR-230L-02 343189 TH							1-3:50 PM		
	S. CROSSWHITE					\$0.00	\$0.00	\$0.00		\$0.00
	E. ROBERTS									

HOR-231 IRRIGATION DESIGN, 3 CREDITS

Principles of irrigation system design for various situations, including underground, above-ground, residential, commercial, and urban farm systems.

OC HYB	HOR-231-01 343191 W							6-8:50 PM		
	A. CHASTAIN					\$390.00	\$39.00	\$45.00		\$474.00

HOR-237 DISEASE IDENTIFICATION, 2 CREDITS

Identification of ornamental plant diseases which occur in greenhouses, landscapes, nurseries, and farms.

oc	HOR-237-01 343194 W							3-4:50 PM		
	E. ROBERTS					\$260.00	\$26.00	\$15.00		\$301.00

HOR-239 TREE CLIMBER TRAINING, 1 CREDIT

The safe use of rope and saddle tree climbing procedures will be covered through lecture, discussion, and field practice. For beginner to moderately experienced climbers. May be repeated for up to 3 credits.

OC LCT	HOR-239-01 343195 F							8-12:45 PM		
	E. ROBERTS					\$130.00	\$13.00	\$60.00		\$203.00
	Meets: Fridays 1/9-2/6.									

HOR-251 HERBAL PRODUCTS, 1 CREDIT

Instruction in making herbal teas, skin lotion, tincture, infused oil, vinegar, spritzers and herbal mixes. Instruction includes the use of specific ingredients, methods for effective usage and storage, and their importance.

OC LCT	HOR-251-01 343197 F							8-11:50 AM		
	D. ROSTAD					\$130.00	\$13.00	\$60.00		\$203.00
	Meets: Fridays 2/13-3/13.									

HOR-260 ARBORICULTURE II, 3 CREDITS

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
	Evaluation, assessment and management of trees in the urban environment. Covers monetary and ecosystem values for trees, property development considerations, tree appraisals, tree inventories, risk assessments, and crew management. Together with HOR-225, this class will prepare students for passing the ISA Certified Arborist exam.									
Prerequisites: HOR-225										

oc	HOR-260-01 343198 T							2-4:50 PM		
	E. ROBERTS					\$390.00	\$39.00	\$40.00		\$469.00

HOR-280 HORTICULTURE/CWE, 3 CREDITS

Cooperative work experience. On-the-job experience in the student's major course of study. Students are expected to work a minimum of 90 job site hours. May be repeated for up to 6 credits. Required: Student Petition.

Corequisites: CWE-281

OC LCT	HOR-280-01 343199									
	G. LOEFFLER					\$390.00	\$39.00	\$45.00		\$474.00
	Required: Student Petition. Corequisite: Take the following CWE-281-06.									

HOR-281 HORTICULTURE/CWE, 6 CREDITS

Cooperative work experience. On-the-job experience in the student's major course of study. Students are expected to work a minimum of 180 job site hours. May be repeated for up to 12 credits. Required: Student Petition.

Corequisites: CWE-281

OC LCT	HOR-281-01 343202									
	G. LOEFFLER					\$780.00	\$78.00	\$45.00		\$903.00
	Required: Student Petition. Corequisite: Take the following CWE-281-06.									

HOR-282 HORTICULTURE/CWE, 3 CREDITS

Cooperative work experience. On-the-job experience in the student's major course of study. Students are expected to work a minimum of 90 job site hours. May be repeated for up to 6 credits. Required: Student Petition.

Corequisites: CWE-281

Required: Students are expected to work a minimum of 90 job site hours

OC LCT	HOR-282-01 343205									
	G. LOEFFLER					\$390.00	\$39.00	\$45.00		\$474.00
	Required: Student Petition. Corequisite: Take the following CWE-281-06.									

HOR-285 ORGANIC FARMING/CWE, 3 CREDITS

Cooperative work experience. On-the-job experience working with an agricultural business/farm. Students are expected to work a minimum of 90 job site hours. May be repeated for up to 6 credits. Required: Student Petition.

Corequisites: CWE-281

Required: Students are expected to work a minimum of 90 job site hours

OC LCT	HOR-285-01 343210									
	G. LOEFFLER					\$390.00	\$39.00	\$45.00		\$474.00
	Required: Student Petition. Corequisite: Take the following CWE-281-06.									

HOR-290 SPECIAL TOPICS IN HORTICULTURE, 1 CREDIT

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
OFF: Other Off-Campus Location

Distance Education Notification:
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HYB: In-person plus online work

Other Coding Translations:
TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text
NCT: No-Cost Text

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time	Total
Instructor	Tuition	Fee	Crs. Fee			
This course gives students an opportunity to gain knowledge in a specific area relevant to the field of horticulture, landscaping, arboriculture or organic farming. This topic will be pulled from a comprehensive list of areas identified by horticulture professionals as having importance for students pursuing work in the field. May be repeated for up to 6 credits. Required: Student Petition.						
OC HYB LCT	HOR-290-01	343212	TWTHFS	M	3-4:50 PM	
	C. WASHBURN	\$130.00	\$13.00	\$200.00	\$343.00	
Required: Student Petition. Hybrid. Meets: Mondays 1/5, 1/12, 2/2, 2/28, 3/9; plus additional hours online. Special Topic: Prepare for National Collegiate Landscape Competition held at Michigan State University, East Lansing, MI, traveling March 17-21, 2026.						
XHOR-0004	BEEKEEPING SCHOOL, 0 CREDIT					
Beekeeping is growing in popularity because of its importance in pollination, honey production, and as a relaxing hobby. This 2 day workshop is intended to prepare new and beginner beekeepers with knowledge, demonstrations, and lists of resources. Topics will include; basic bee biology, proper equipment, handling of bees, hive pest and disease control, feeding, and more. Co-sponsored by the Portland Metro Beekeepers Association.						
oc	XHOR-0004-01	343576	S		9-3:00 PM	
	TBA					
Required: Student Petition. Meets: Saturdays 2/7 & 2/14. Register at https://bit.ly/horteventbrite Fee \$50. Contact Loretta at lorettam@clackamas.edu with questions.						
XHOR-C06B	PESTICIDE CORE TRAINING/WINTER, 0.40 CEUS					
This training qualifies for 4 CORE recertification credits as required by Oregon Department of Agriculture. Fulfills yearly recertification requirement for Private Pesticide license holders, and can be used towards total needed for Public and Commercial license requirements. Our Fall and Winter courses are different, so both will count towards recertification in the same year.						
oc	XHOR-C06B-01	343585	F		1-4:50 PM	
	G. COOKE					
Required: Student Petition. Meets: 2/20. Fee: \$40. Register at https://bit.ly/horteventbrite Contact Loretta Mills at lorettam@clackamas.edu with questions.						

Human Services

HS-103	ETHICS FOR HUMAN SERVICE WORKERS, 2 CREDITS					
Explores the professional issues students will face when in a helping relationship. Introduces the professional codes of ethics associated with the helping professions. Addresses solving ethical dilemmas using professional guidelines. Topics include client rights, confidentiality, professional boundaries, legal issues in helping, competence, and cultural diversity.						
ONL LCT	HS-103-01	343154				
	T. BOYLE-GALESTIANTZ	\$260.00	\$26.00	\$0.00	\$286.00	
HS-104	USING DIAGNOSTIC CRITERIA IN SUBSTANCE USE TREATMENT. 2 CREDITS					
This course will present an overview of The American Society of Addiction Medicine (ASAM) Criteria and the Diagnostic and Statistical Manual (DSM) criteria related to addiction and substance use. Students will gain familiarity with the use of the ASAM Criteria to enhance the use of multidimensional assessments to develop patient-centered service plans. Students will also gain knowledge about the use of the DSM Manual to guide diagnosis and treatment of Substance Use Disorders.						
ONL LCT	HS-104-01	343155				
	TBA	\$260.00	\$26.00	\$0.00	\$286.00	
HS-154	COMMUNITY RESOURCES, 3 CREDITS					
Explores local community social service resources. Focuses on local agencies and programs, including services provided, eligibility criteria, mission, and policies of these agencies. Includes instruction in identifying client needs, various referral processes, and historical, political and social trends.						
OC HYB LCT	HS-154-01	343157	T		1-2:50 PM	
	C. BAKER	\$390.00	\$39.00	\$0.00	\$429.00	
Meets in-person on five Tuesdays from 1:00pm to 2:50pm. (1/6, 1/20, 2/3, 2/17, 3/3).						
ONL	HS-154-02	343158				
	C. BAKER	\$390.00	\$39.00	\$0.00	\$429.00	
HS-156	CONDUCTING HUMAN SERVICE INTERVIEWS, 3 CREDITS					
Provides the specific techniques required for entry-level interviewing in human service settings. Addresses issues raised in working with clients from diverse backgrounds.						
OC HYB LCT	HS-156-01	343159	TH		10-11:50 AM	
	C. BAKER	\$390.00	\$39.00	\$0.00	\$429.00	
Meets in-person on five Tuesdays from 10:00am to 11:50am. (1/8, 1/22, 2/5, 2/19, 3/5).						
HS-211	INFECTIOUS DISEASES AND HARM REDUCTION, 1 CREDIT					
This course will explore the relationship between substance use and infectious diseases, and discuss methods for reducing transmission of these diseases. Diseases will include HIV/AIDS, tuberculosis, hepatitis, and sexually transmitted infections. This course will provide students with techniques for assisting clients with assessing risk, practicing harm reduction, and evaluating treatment options.						
ONL LCT	HS-211-01	343160				
	Y. SMITH	\$130.00	\$13.00	\$0.00	\$143.00	
HS-216	GROUP COUNSELING SKILLS, 3 CREDITS					
This course provides students with strategies and skills for group work with a variety of clients. Explores leadership styles and skills, group formation and stages, and the ethics of working with groups. The course will address the knowledge needed to develop, run, and evaluate groups for a variety of human service topics, including substance use treatment. Theories of therapeutic group work will also be discussed.						
Prerequisites: HS-156 with a C or better						
REM LCT	HS-216-01	343161	M		4-5:50 PM	
	T. BOYLE-GALESTIANTZ	\$390.00	\$39.00	\$0.00	\$429.00	
Meets remotely on five Mondays from 4:00pm to 5:50pm. (1/12, 1/26, 2/9, 2/23, 3/9).						
HS-256	ADVANCED INTERVIEWING SKILLS WITH THEORY, 3 CREDITS					

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Course No	Course Title, Credits					
Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time			
Instructor	Tuition	Fee	Crs. Fee	Total		

This course is designed to help human service students further develop and deepen their skills and understanding of interviewing in the human service field. Course will build on skills learned in HS-156, incorporating the use of behavior change theories to guide the helping process.

Prerequisites: HS-156 with a C or better

OC HYB	HS-256-01	343163 T		10-11:50 AM		
	C. BAKER	\$390.00	\$39.00	\$0.00	\$429.00	
Meets in-person on five Tuesdays from 10:00am to 11:50am. (1/6, 1/20, 2/3, 2/17, 3/3).						

HS-270 HUMAN SERVICES PRACTICUM SEMINAR, 2 CREDITS

Focuses on field experience for students in a variety of human service settings, paralleling duties regularly assigned to human service workers. The course offers students a chance to discuss issues faced in the field, and apply human services concepts and theories to their work. Students will reflect on program curriculum and how their knowledge influences the work in the field. May be repeated for up to 6 credits. Required: Student Petition.

Corequisites: GRN-280, HS-280, HS-281, or HS-282

OC HYB	HS-270-01	343165 TH		1-2:50 PM		
	C. BAKER	\$260.00	\$26.00	\$0.00	\$286.00	
Required: Student Petition. Meets in-person on five Thursdays from 1:00pm to 2:50pm. (1/8, 1/22, 2/5, 2/19, 3/5).						

HS-280 HUMAN SERVICES GENERALIST I: CWE/PRACTICUM, 2-6 CREDITS (VAR)

Cooperative work experience. Supervised experience in human services including but not limited to: social service; early childhood care; criminal/juvenile justice; gerontology; and other occupations. May be repeated for up to 12 credits. Required: Student Petition.

Prerequisites: HS-170

Corequisites: HS-270

oc	HS-280-01	343167				
	J. LOVELESS	\$780.00	\$78.00	\$45.00	\$903.00V	
Required: Student Petition.						

HS-281 HUMAN SERVICES GENERALIST II: CWE/PRACTICUM, 2-6 CREDITS (VAR)

Cooperative work experience level II. Supervised experience in human services including but not limited to: social service; early childhood care; criminal/juvenile justice; gerontology; and other related occupations. May be repeated for up to 12 credits. Required: Student Petition.

Prerequisites: HS-170

Corequisites: HS-270

oc	HS-281-01	343170				
	J. LOVELESS	\$780.00	\$78.00	\$45.00	\$903.00V	
Required: Student Petition.						

HS-282 HUMAN SERVICES GENERALIST III: CWE/PRACTICUM, 2-6 CREDITS (VAR)

Cooperative work experience level III. Supervised experience in human services including but not limited to: social service; early childhood care; criminal/juvenile justice; gerontology; and other related occupations. May be repeated for up to 12 credits. Required: Student Petition.

Prerequisites: HS-170. HS-280 or HS-281

Corequisites: HS-270

oc	HS-282-01	343173				
	J. LOVELESS	\$780.00	\$78.00	\$45.00	\$903.00V	
Required: Student Petition.						

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Humanities

HUM-160 FAITH & REASON, 4 CREDITS

An introduction of how personal concepts of faith & reason and institutions of science & religion shape personal intellectual landscapes. Examines classical philosophy, sacred texts, worldviews, modern fiction, poetry, theology, cosmology, and evolutionary biology.

Recommended Prerequisites: WRD-098 or placement in WR-121Z

ONL	HUM-160-01	343200				
	J. SHELTON	\$520.00	\$52.00	\$0.00	\$572.00	

Industrial Maintenance Technology

IMT-111 INTRODUCTION TO RENEWABLE ENERGY AND INDUSTRIAL SYSTEMS, 3 CREDITS

This is a survey course in Renewable Energy and Industrial Technology. Students will gain an understanding of the principles, technologies, and career opportunities in these closely related fields. It will provide a basic understanding of energy and electro-mechanical systems. Students will gain knowledge and skills related to hand and power tools, fasteners, and mechanical systems. Students will acquire a fundamental understanding of the primary energy sources and their impact on the environment. Includes hands-on lab exercises.

oc	IMT-111-01	347623 T		2:30 -5:20 PM		
		MW		9-10:30 AM		
	C. CONNORS	\$390.00	\$39.00	\$153.75	\$582.75	
	S. PAVEY					

IMT-120 INDUSTRIAL MACHINERY I, 3 CREDITS

This course will introduce students to industrial machinery and power equipment with respect to industrial maintenance. Students will learn the fundamentals of electro-mechanical machinery repair, assembly and disassembly and how to work safely around mechanical equipment and power tools. Topics discussed will include hand and power tools, preventative maintenance, power transmission systems, fasteners and torque.

Recommended Prerequisites: MTH-050 or higher

oc	IMT-120-01	343224 TTH		5:30 -8:20 PM		
	M. BABCOCK	\$390.00	\$39.00	\$153.75	\$582.75	

IMT-230 INTRODUCTION TO HEATING, VENTILATION, AND AIR CONDITIONING, 3 CREDITS

This course will introduce students to commercial and residential Heating, Ventilation, and Air Conditioning (HVAC) systems. Students will study HVAC terminology, heating systems, the refrigeration cycle, low voltage controls, basics of air flow and ventilation as well as safety practices while working on these systems. There will be many opportunities for hands-on experience using trainer devices in a lab setting that will include exercises for troubleshooting, understanding controls, and basic system performance and function.

oc	IMT-230-01	343226 MW		9-11:50 AM		
	C. CONNORS	\$390.00	\$39.00	\$131.25	\$560.25	

Journalism

J-211 MASS MEDIA & SOCIETY, 4 CREDITS

Course No	Course Title, Credits		Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
	Instructor									
This course takes students through a critical study of the production and consumption of mass media, including television, radio, books, film, news, advertising and the internet. Students also examine the economic and social organization of mass media, the growth of new media technologies, and the relationship between media and the public.										
Recommended Prerequisites: WRD-098 or placement in WR-121Z										
ONL	J-211-01	342392	K. DOSS			\$520.00	\$52.00	\$10.00		\$582.00
J-215	COLLEGE NEWS: WRITING & PHOTOGRAPHY, 4 CREDITS									
Students work as writers, photographers and editors on The Clackamas Print, the college's student-run news website, newspaper and social media sites. Students study and produce journalism stories and photos. In doing so, they learn different writing styles, photography rules, ethical standards of news gathering and the rights of a free press in a democracy. May be repeated for up to 8 credits.										
Recommended Prerequisites: Placement in WR-121Z										
OC	J-215-01	342395 MW	M. JONES		1-2:50 PM	\$520.00	\$52.00	\$10.00		\$582.00
J-216	WRITING FOR MEDIA, 4 CREDITS									
Introduces students to the fundamentals of writing for various media including journalism, public relations and other communications-related fields. Topics include news gathering, interviewing and media law, with an emphasis on writing for the web, print, broadcast and social media.										
Recommended Prerequisites: WRD-098 or placement in WR-121Z										
OC HYB LCT	J-216-01	342398 W	M. JONES		10-11:50 AM	\$520.00	\$52.00	\$10.00		\$582.00
J-225	INTERMEDIATE COLLEGE NEWS: WRITING & PHOTOGRAPHY, 4 CREDITS									
Intermediate news writing and photojournalism for publication in the student-run Clackamas Print news website, newspaper and social media sites. Generate original story ideas, publish photo essays and complete more complicated interviews on multiple projects in news, arts, sports and opinion writing. Apply media ethics to social, online and print media. May be repeated for up to 8 credits.										
Prerequisites: J-215										
Recommended Prerequisites: Placement in WR-121Z										
OC	J-225-01	342400 MW	M. JONES		1-2:50 PM	\$520.00	\$52.00	\$0.00		\$572.00
J-226	INTRODUCTION TO COLLEGE NEWS: DESIGN & PRODUCTION, 4 CREDITS									
Students work as designers and media creators for The Clackamas Print, the college's award-winning student newspaper, website and social media sites. Students design the student newspaper, create social media posts and produce related multimedia content using Adobe software and other products. May be repeated for up to 8 credits.										
Recommended Prerequisites: Placement in WR-121Z										
OC LCT	J-226-01	342403 T	M. JONES		1-4:50 PM	\$520.00	\$52.00	\$10.00		\$582.00
J-227	INTERMEDIATE COLLEGE NEWS: DESIGN & PRODUCTION, 4 CREDITS									
Offers students intermediate work as designers and media creators for The Clackamas Print, the college's award-winning student newspaper, website and social media sites. Students design the student newspaper, create social media posts and produce related multimedia journalism content using Adobe software and other products. May be repeated for up to 8 credits.										
Prerequisites: J-226										
OC LCT	J-227-01	342405 T	M. JONES		1-4:50 PM	\$520.00	\$52.00	\$0.00		\$572.00
J-228	ADVANCED COLLEGE NEWS: DESIGN & PRODUCTION, 4 CREDITS									
Offers students advanced work as designers and media creators for The Clackamas Print, the college's award-winning student newspaper, website and social media sites. Students design the student newspaper, create social media posts and produce related multimedia journalism content using Adobe software and other products. May be repeated for up to 8 credits.										
Prerequisites: J-227										
OC LCT	J-228-01	342407 T	M. JONES		1-4:50 PM	\$520.00	\$52.00	\$0.00		\$572.00
J-235	ADVANCED COLLEGE NEWS: WRITING & PHOTOGRAPHY, 4 CREDITS									
Advanced news writing and photography for publication online, in social media and in the student-run newspaper, The Clackamas Print. Students apply Associated Press style, use journalism ethics and cover a variety of topics and events in words and photos to build their journalism portfolios. May be repeated for up to 8 credits.										
Prerequisites: J-225										
Recommended Prerequisites: Placement in WR-121Z										
OC	J-235-01	342409 MW	M. JONES		1-2:50 PM	\$520.00	\$52.00	\$0.00		\$572.00
J-280	JOURNALISM/CWE, 2-6 CREDITS									
Cooperative work experience. Provides the student with on-the-job experience and training related to journalism. Required: Student Petition.										
Corequisites: CWE-281										
ONL	J-280-01	342411	M. JONES			\$780.00	\$78.00	\$45.00		\$903.00V
Required: Student Petition.										
J-280A	PUBLIC RELATIONS/CWE, 2-6 CREDITS									
Cooperative work experience. Provides the student with on-the-job experience and training related to public relations. Required: Student Petition.										
Corequisites: CWE-281										
ONL	J-280A-01	342417	M. JONES			\$780.00	\$78.00	\$45.00		\$903.00V
Required: Student Petition.										
Library										
LIB-101	INTRODUCTION TO LIBRARY RESEARCH, 1 CREDIT									
Introduces and strengthens college-level research skills. Students will build an understanding of strategies for finding, evaluating, and using information responsibly. Prepares students for success in research-based college assignments and real-life research needs.										

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Course No	Course Title, Credits						Course No	Course Title, Credits							
	Section No Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time Crs. Fee		Total	Section No Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total
ONL LCT	LIB-101-01 TBA Meets: 1/5-3/7.	343228		\$0.00	\$0.00	\$0.00	\$0.00	This class will introduce students to 5-axis CNC milling machines, their programming, and setup procedures. The course will explore limitations, advantages, and configurations of typical 5-axis machines including rotation style and set-up orientation. Post processing and virtual machine simulation will also be discussed. Prerequisites: MTT-122							
ONL LCT	LIB-101-02 TBA Meets: 1/5-3/7.	343230		\$0.00	\$0.00	\$0.00	\$0.00								
ONL LCT	LIB-101-03 TBA Meets: 1/5-3/7.	343232		\$0.00	\$0.00	\$0.00	\$0.00								
								oc	MTT-253-01 C. LETTENMAIER	343286	MW	\$390.00	\$39.00	1-3:50 PM	\$582.75

Machine Tool Technology

MTT-111 MANUAL MACHINING I, 4 CREDITS

This course is an introduction to machine tool operation and precision measurement. It covers elementary operation of drill presses, bandsaws, lathes, and milling machines. The course includes external threading.

Recommended Prerequisite or Corequisite: MFG-104 and MTH-050

OC	MTT-111-01 J. TRAVER	343273	TTH			5-8:50 PM	
		\$520.00	\$52.00	\$205.00	\$777.00		

MTT-112 MANUAL MACHINING II, 4 CREDITS

This course is a continuation of machine tool operations. It covers set-up and operation of the vertical milling machine, lathe boring techniques, surface grinding and screw thread nomenclature.

Prerequisites: MTT-111

OC	MTT-112-01 J. TRAVER	343277	MW			8-11:50 AM	
		\$520.00	\$52.00	\$205.00	\$777.00		

MTT-121 CNC I: SET-UP AND OPERATION, 4 CREDITS

This is the first course in the CNC sequence. Students will learn basic skills including how to properly set-up and operate both CNC milling and turning centers. Students will also learn G & M codes related to basic machine set-up and operation. Designed for persons with little or no previous CNC experience.

OC	MTT-121-01 J. CARLSTON	343279	TTH			5:30 -9:20 PM	
		\$520.00	\$52.00	\$205.00	\$777.00		

MTT-122 CNC II: PROGRAMMING AND OPERATION, 4 CREDITS

This is the second course in the CNC sequence. Students will learn G&M-code programming for milling and turning while they build their set-up and operation skills. There will also be an introduction to set-up probing, 4-axis mill programming and machining, sub-programming and process documentation.

Prerequisites: MTT-111, MTT-121, MTH-050

OC	MTT-122-01 J. CARLSTON	343284	TTH			8-11:50 AM	
		\$520.00	\$52.00	\$205.00	\$777.00		

MTT-242 CAD/CAM III, 4 CREDITS

This course is the third in the Computer-Aided Machining (CAM) series and will build on the previous course. Students will use CAD/CAM software to produce CNC parts. There will be an emphasis on multiple operations on both CNC milling and turning machines. An introduction to five-axis and mill/turn machining will be included.

Prerequisites: MTT-241

OC	MTT-242-01 C. LETTENMAIER	343285	MW			8-11:50 AM	
		\$520.00	\$52.00	\$205.00	\$777.00		

MTT-253 5-AXIS MACHINING, 3 CREDITS

Campus Locations:
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MTT-268 CAPSTONE MACHINING I, 3 CREDITS

This is the first of the capstone project series and will allow students to demonstrate mastery of core skills that are learned in the machining program including: CNC setup and operation, manual machining, CAM programming, and surface grinding. This class will focus on importing models, process development, and programming components to be run on a CNC machine tool.

Prerequisites: MTT-113, MTT-122, and MTT-141

Recommended Corequisite: MTT-242

OC	MTT-268-01 C. LETTENMAIER	343289	MW			5:30 -8:20 PM	
		\$390.00	\$39.00	\$153.75	\$582.75		

Manufacturing Technology

All degree seeking students should arrange to speak to a faculty advisor prior to registering. Call 503-594-3318 for more information, or contact Advising, 503-594-3475.

MFG-103 MACHINING FOR FABRICATION & MAINTENANCE, 3 CREDITS

This course is an introduction to metal working for welders, fabricators, maintenance personnel and others who need to understand simple machining principles. Students will be introduced to precision measurement with calipers and micrometers. Combination squares, protractor dividers and scribes will be used for semi-precision layout of workpieces in preparation for machining. The elementary use of the drill press, band saw, milling machine and lathe, as well as hand tools, will be practiced during hands-on labs. A discussion of thread systems will include nomenclature, measurement, tapping, chasing and repair.

Prerequisites: MTH-050 or higher

OC	MFG-103-01 J. CARLSTON	343233	MW			2-4:50 PM	
		\$390.00	\$39.00	\$153.75	\$582.75		
OC	MFG-103-02 J. CARLSTON	343236	TTH			2-4:50 PM	
		\$390.00	\$39.00	\$153.75	\$582.75		

MFG-104 PRINT READING, 3 CREDITS

Introduction to basic print reading. Students will use the principles of orthographic projection and current industry standards as they apply this knowledge to interpreting manufacturing prints.

OC HYB	MFG-104-01 J. CARLSTON	343239	TTH			1-2:20 PM	
		\$390.00	\$39.00	\$153.75	\$582.75		

MFG-107 INDUSTRIAL SAFETY & FIRST AID, 3 CREDITS

This course is designed to provide the student with a basic understanding of safety hazards and first aid in the workplace. Includes eye safety, grinding wheel hazards, electrical/chemical hazards, slips, falls and back injuries. Instruction in first aid, AED and CPR and OSHA 10.

OC HYB	MFG-107-01 L. HILLYARD	343241	F			1-3:50 PM	
		\$390.00	\$39.00	\$153.75	\$582.75		

MFG-109 COMPUTER LITERACY FOR TECHNICIANS, 3 CREDITS

Course Listing

2026/VI

Course No	Course Title, Credits		Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
	Instructor									
Presents the uses of computers in business and industry. Subjects covered include computer platforms, basic hardware, data communication and operating systems. Reviews & uses word processing, spreadsheet and database software for the PC.										
REM	MFG-109-01	343244 F			8-10:50 AM					
	A. ARISTIZABAL	\$390.00	\$39.00	\$282.19	\$711.19	Online textbook included in section fees.				
MFG-110	MANUFACTURING SPECIAL PROJECTS, 1-9 CREDITS (VAR)									
Allows students a great deal of latitude in project selection, design & production utilizing manual machine tools, CNC machine tools, CAD/CAM and electrical discharge machines. A solid understanding of all basic machine tools is expected. May be repeated for up to 9 credits. Required: Student Petition.										
oc	MFG-110-01	347688 TBA								
	C. CONNORS	\$1,170.00	\$117.00	\$461.25	\$1,748.25V	Required: Student Petition.				
MFG-129	BASIC ELECTRICITY, 3 CREDITS									
Explores fundamentals of AC and DC electricity. Includes: atomic structure, direct current, alternating current, Ohm's law, series, parallel, and combination circuits, DC circuit theorems, production of DC voltages, magnetic principles, transformers, motors and generators. Includes practical laboratory activities.										
oc	MFG-129-01	347622 TTH			9-11:50 AM					
	C. CONNORS	\$390.00	\$39.00	\$153.75	\$582.75					
MFG-131	BASIC ELECTRICITY II, 3 CREDITS									
Covers application of several theories learned in previous term. Additional topics will include: motors, controls, alignment, pulleys and gears, troubleshooting theory, power distribution and lighting, electrical wiring and schematics.										
Recommended Prerequisites: MFG-130 and MTH-050										
oc	MFG-131-01	343251 F			5-7:50 PM					
	B. KARM	\$390.00	\$39.00	\$153.75	\$582.75					
MFG-140	PRINCIPLES OF FLUID POWER, 3 CREDITS									
Course provides students with instruction in the use of hydraulics and pneumatics in industry, covering the fundamentals of hydraulics, basic components (valves, cylinders, pumps, motors, piping, fluid, fluid conditions, and accessories).										
Recommended Prerequisites: MTH-050										
OC HYB	MFG-140-01	343255 MW			5:30 -8:20 PM					
	J. TRAVER	\$390.00	\$39.00	\$153.75	\$582.75					
MFG-209	PROGRAMMING & AUTOMATION FOR MANUFACTURING, 3 CREDITS									
A high-level computer literacy course for technologists. The focus of this course is on structured computer programming in the Visual Basic language and the application of programming industrial automation. Basic knowledge of the PC required.										
Recommended Prerequisites: MFG-109										
REM	MFG-209-01	343258 TTH			3-4:50 PM					
	M. MATTSON	\$390.00	\$39.00	\$153.75	\$582.75					
MFG-221	MATERIALS SCIENCE, 3 CREDITS									
Introduces metallurgy and material science. Extractive and physical metallurgy will be covered. Specific topics include heat treatment, materials analysis, the iron carbon phase diagram, composites, ceramics and industrial plastics.										
Recommended Prerequisites: MTH-050										
OC HYB	MFG-221-01	343260 TTH			12-2:50 PM					
	M. BABCOCK	\$390.00	\$39.00	\$153.75	\$582.75					
MFG-264	CMM SET-UP AND OPERATION, 2 CREDITS									
In this last course of the precision measurement sequence, students will learn to properly set-up and operate a Coordinate Measuring Machine (CMM) and design measurement plans for optimal metrology output.										
Prerequisites: MFG-104										
oc	MFG-264-01	343261 TTH			3-4:50 PM					
	M. SNELL	\$260.00	\$26.00	\$103.00	\$389.00					
MFG-272	MASTERCAM MILL II, 4 CREDITS									
Students construct three-dimensional geometric models using solids and surface modeling techniques. Students program models using advanced multi-axis programming techniques utilizing all aspects of roughing and finishing. Projects verified with solids toolpath verification.										
Recommended Prerequisites: MFG-271 or prior experience										
REM	MFG-272-01	343262 TTH			5:30 -9:20 PM					
	M. SNELL	\$520.00	\$52.00	\$205.00	\$777.00					
MFG-280	MANUFACTURING TECHNOLOGY/CWE, 1-6 CREDITS									
Cooperative work experience. Practical experience in the manufacturing trades. Coordination of instruction will occur with industry and the manufacturing and cooperative work departments. May be repeated for up to 6 credits. Required: Student Petition.										
Corequisites: CWE-281										
ONL	MFG-280-01	343264								
	C. CONNORS	\$780.00	\$78.00	\$75.00	\$933.00V	Required: Student Petition. Corequisite: Take the following CWE-281-06.				
ONL	MFG-280-02	347687								
	M. MATTSON	\$780.00	\$78.00	\$75.00	\$933.00V	Required: Student Petition. Corequisite: Take the following CWE-281-06.				
XMFG-0008	WORK SESSIONS: MAKERSPACE, 0 CREDIT									
The de Asis Makerspace workshop where creative people from all walks of life can have access to the tools they will need to create prototypes, models and masterpieces. Participants will have the ability to use equipment ranging from basic woodworking machinery and 3-D printing to CNC milling, plasma and laser.										
oc	XMFG-0008-01	343586 F			5-8:50 PM					
	C. CONNORS	\$0.00	\$0.00	\$0.00	\$0.00	Meets: 1/9/26.				
oc	XMFG-0008-02	343587 F			5-8:50 PM					
	C. CONNORS	\$0.00	\$0.00	\$0.00	\$0.00	Meets: 1/16/26.				
oc	XMFG-0008-03	343588 F			5-8:50 PM					
	C. CONNORS	\$0.00	\$0.00	\$0.00	\$0.00	Meets: 1/23/26.				

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
OFF: Other Off-Campus Location

Distance Education Notification:
ONL: Online Only
REM: Remote (w/ scheduled meetings)
HYB: In-person plus online work

Other Coding Translations:
TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text
NCT: No-Cost Text

Course Listing

2026/WI

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Total
Instructor							Crs. Fee	
OC	XMFG-0008-04	343589 F					5-8:50 PM	
	C. CONNORS				\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 1/30/26.							
OC	XMFG-0008-05	343590 F					5-8:50 PM	
	C. CONNORS				\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 2/6/26.							
OC	XMFG-0008-06	343591 F					5-8:50 PM	
	C. CONNORS				\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 2/13/26.							
OC	XMFG-0008-07	343592 F					5-8:50 PM	
	C. CONNORS				\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 2/20/26.							
OC	XMFG-0008-08	343593 F					5-8:50 PM	
	C. CONNORS				\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 2/27/26.							
OC	XMFG-0008-09	343594 F					5-8:50 PM	
	C. CONNORS				\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 3/6/26.							
OC	XMFG-0008-10	343595 F					5-8:50 PM	
	C. CONNORS				\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 3/13/26.							
OC	XMFG-0008-11	343596 F					5-8:50 PM	
	C. CONNORS				\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 3/20/26.							

Mathematics

MTH-010 FUNDAMENTALS OF ARITHMETIC I, 4 CREDITS

This first course in arithmetic reviews operations on whole numbers, basic fractions, decimals, measurement, and basic geometry.

OC NCT	MTH-010-01	343201 MW					1-2:50 PM	
	J. NIELSON				\$520.00	\$52.00	\$20.00	\$592.00

MTH-020 FUNDAMENTALS OF ARITHMETIC II, 4 CREDITS

This second course in arithmetic is a prerequisite for the three math pathways. It reviews mathematical foundations such as fractions, percents, geometry, and effective study skills.

Prerequisites: MTH-010 with a C or better, or placement in MTH-020

ONL NCT	MTH-020-02	343207						
	S. HATSWELL				\$520.00	\$52.00	\$20.00	\$592.00
	Meets: 1/19-3/21.							

MTH-020ES FUNDAMENTOS DE ARITMÉTICA II, 4 CREDITS

Este segundo curso de aritmética es un requisito previo para las tres vías de matemáticas. Revisa fundamentos matemáticos como fracciones, porcentajes, geometría y habilidades de estudio efectivas.

Prerequisites: MTH-010 con una C o mejor, o ubicación en MTH-020

REM LCT ESPAÑOL	MTH-020ES-01	347652 S					8-11:50 AM	
	A. ARISTIZABAL				\$520.00	\$52.00	\$20.00	\$592.00
	Requerido: petición del estudiante.							

MTH-050 TECHNICAL MATHEMATICS I, 4 CREDITS

Campus Locations:

HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
OFF: Other Off-Campus Location

Distance Education Notification:

ONL: Online Only
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HYB: In-person plus online work

Other Coding Translations:

TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español

LCT: Low-Cost Text
NCT: No-Cost Text

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Total
Instructor							Crs. Fee	
	Designed for career-technical students. Topics focus on critical thinking, problem solving, and mathematical communication using applications of arithmetic, measurement, geometry, and statistics and probability.							
	Prerequisites: MTH-020 with a C or better, or placement in MTH-050 or higher							
OC LCT	MTH-050-01	343209 TTH					10-11:50 AM	
	A. ARISTIZABAL				\$520.00	\$52.00	\$20.00	\$592.00
OC LCT	MTH-050-02	343213 MW					3-4:50 PM	
	A. ARISTIZABAL				\$520.00	\$52.00	\$20.00	\$592.00
OC LCT	MTH-050-03	343216 TTH					12:30 -2:20 PM	
	M. PARTNOF				\$520.00	\$52.00	\$20.00	\$592.00
	Required: Student Petition.							
MTH-050ES	MATEMÁTICAS TÉCNICAS I, 4 CREDITS							
	Este curso está diseñado para estudiantes de carreras técnicas. Los temas se centran en el pensamiento crítico, la resolución de problemas y la comunicación matemática utilizando aplicaciones de aritmética, mediciones, geometría, estadística y probabilidades.							
	Prerequisites: MTH-020 con una C o mejor, o ubicación en MTH-050 o superior							
REM NCT ESPAÑOL	MTH-050ES-01	343218 F					5-8:50 PM	
	A. ARISTIZABAL				\$520.00	\$52.00	\$20.00	\$592.00

MTH-060 ALGEBRA I, 4 CREDITS

An introduction to the algebra sequence. This class starts from foundational skills of arithmetic to build a rich understanding of linear models. Variables are introduced to represent changing quantities in applications and are used in tables, graphs, expressions, equations, inequalities, and systems. Multiple algebraic representations and strategies are used both with and without technology.

Prerequisites: MTH-020 with a C or better, or placement in MTH-060

HAR NCT	MTH-060-01	343220 MW					9-10:50 AM	
	B. WEBBER				\$520.00	\$52.00	\$20.00	\$592.00
HAR NCT	MTH-060-02	347562 TTH					6-7:50 PM	
	B. WEBBER				\$520.00	\$52.00	\$20.00	\$592.00
OC NCT	MTH-060-03	347563 TTH					10-11:50 AM	
	E. KELLY				\$520.00	\$52.00	\$20.00	\$592.00
OC NCT	MTH-060-04	347564 MW					1-2:50 PM	
	A. ARISTIZABAL				\$520.00	\$52.00	\$20.00	\$592.00

MTH-065 ALGEBRA II, 4 CREDITS

A second term in an algebra sequence, this course bridges foundational algebra skills to formal analysis of algebraic models. Linear and non-linear applications, including radical, absolute value, squaring, and polynomial relations are modeled graphically, numerically, and symbolically. Expressions, equations, and inequalities are utilized throughout. Multiple algebraic representations and strategies are used both with and without technology.

Prerequisites: MTH-060 with a C or better, or placement in MTH-065

HAR NCT	MTH-065-01	343238 MW					9-10:50 AM	
	B. WEBBER				\$520.00	\$52.00	\$20.00	\$592.00
HAR NCT	MTH-065-02	343243 TTH					6-7:50 PM	
	B. WEBBER				\$520.00	\$52.00	\$20.00	\$592.00
OC NCT	MTH-065-03	347565 TTH					10-11:50 AM	
	A. HALL				\$520.00	\$52.00	\$20.00	\$592.00
OC NCT	MTH-065-04	347566 TTH					1-2:50 PM	
	A. HALL				\$520.00	\$52.00	\$20.00	\$592.00
OC NCT	MTH-065-05	347567 MW					10-11:50 AM	
	J. KUOHA				\$520.00	\$52.00	\$20.00	\$592.00

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total	Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
Instructor	Tuition	Fee	Crs. Fee				Instructor	Tuition	Fee	Crs. Fee			
MTH-080 TECHNICAL MATHEMATICS II, 3 CREDITS							MTH-098 COLLEGE MATH FOUNDATIONS, 4 CREDITS						
This course is the second in a sequence designed for career-technical students. The topics focus on critical thinking, problem solving, and mathematical communication using applications in arithmetic, algebra, geometry, and trigonometry.							In our society, we see and hear about important topics and trends that involve numbers. In this class, participants work to understand and communicate what these numbers mean. Students will explore ways they interact with quantitative information in daily life, learn to effectively interpret and communicate quantitative information, and apply their own knowledge and experience to quantitative reasoning. Learning happens in small student groups, with technology, and through reflective writing. The class is project-based, meaning that students complete projects to demonstrate what they have learned.						
Prerequisites: MTH-050 with a C or better, or placement in MTH-080							Prerequisites: MTH-020 with a C or better, or placement in MTH-050, MTH-060, or MTH-098						
OC NCT	MTH-080-01	343254 MW			3-4:20 PM		OC HYB NCT	MTH-098-01	343272 MW			10-11:20 AM	
	B. WEBBER	\$390.00	\$39.00	\$20.00		\$449.00		M. PRICE	\$520.00	\$52.00	\$20.00		\$592.00
MTH-082C WASTEWATER MATH II, 1 CREDIT							OC HYB NCT	MTH-098-02	343276 TTH			1-2:20 PM	
Quantitative component to understanding analysis and operations of secondary wastewater systems. Flow rate, chemical dosage, treatment plant loading, treatment process efficiency, unit conversion and process control.								K. PHILLIPS	\$520.00	\$52.00	\$20.00		\$592.00
Prerequisites: MTH-082A and MTH-082B							OC HYB NCT	MTH-098-03	347570 TTH			10-11:20 AM	
Corequisites: WET-120								M. PRICE	\$520.00	\$52.00	\$20.00		\$592.00
OC	MTH-082C-01	343269 M			5-5:50 PM		ONL NCT	MTH-098-10	343280				
	M. LAFORCE	\$130.00	\$13.00	\$10.00		\$153.00		E. KELLY	\$520.00	\$52.00	\$20.00		\$592.00
Remote options available with this section.							MTH-105Z MATH IN SOCIETY, 4 CREDITS						
MTH-082D WATERWORKS MATH II, 1 CREDIT							An exploration of present-day applications of mathematics focused on developing numeracy. Major topics include quantitative reasoning and problem-solving strategies, probability and statistics, and financial mathematics; these topics are to be weighted approximately equally. This course emphasizes mathematical literacy and communication, relevant everyday applications, and the appropriate use of current technology.						
Problem solving for waterworks applications. Introduction to contact-time (CT) calculations, how to determine chemical concentrations, the pounds formula, and basic hydraulics.							Prerequisites: MTH-095 or MTH-098 with a C or better, or placement in MTH-111Z						
Prerequisites: MTH-082A and MTH-082B							Recommended Prerequisites: WRD-098 or placement in WR-121Z						
Corequisites: WET-121							OC HYB NCT	MTH-105Z-01	343282 MW			10-11:20 AM	
OC	MTH-082D-01	343271 T			5-5:50 PM			S. VALDES	\$520.00	\$52.00	\$20.00		\$592.00
	J. NURMI	\$130.00	\$13.00	\$10.00		\$153.00	OC HYB NCT	MTH-105Z-02	343287 MW			1-2:20 PM	
Remote options available with this section.								S. VALDES	\$520.00	\$52.00	\$20.00		\$592.00
MTH-095 ALGEBRA III, 4 CREDITS							OC HYB NCT	MTH-105Z-03	343288 TTH			1-2:20 PM	
This course focuses on foundational skills and ways of thinking that prepare a student for future STEM coursework. Linear, quadratic, and rational relations are approached through applications with a strong emphasis on modeling as a problem-solving technique. Multiple algebraic representations and strategies are used both with and without technology.								J. KUOHA	\$520.00	\$52.00	\$20.00		\$592.00
Prerequisites: MTH-065 with a C or better, or placement in MTH-095							ONL NCT	MTH-105Z-10	343290				
OC NCT	MTH-095-01	343259 MW			10-11:50 AM			M. YANNOTTA	\$520.00	\$52.00	\$20.00		\$592.00
	J. HEVEL	\$520.00	\$52.00	\$20.00		\$592.00	ONL NCT	MTH-105Z-11	343291				
OC NCT	MTH-095-02	343263 TTH			10-11:50 AM			M. YANNOTTA	\$520.00	\$52.00	\$20.00		\$592.00
	K. AMREIN	\$520.00	\$52.00	\$20.00		\$592.00	ONL NCT	MTH-105Z-12	343292				
OC NCT	MTH-095-03	343265 TTH			1-2:50 PM			M. JOSI	\$520.00	\$52.00	\$20.00		\$592.00
	K. AMREIN	\$520.00	\$52.00	\$20.00		\$592.00	MTH-108 DATA SCIENCE EXPLORATIONS, 4 CREDITS						
OC NCT	MTH-095-04	343266 MW			3-4:50 PM		In this survey course, students engage with concepts present in multiple fields devoted to understanding and using data. Technology is used throughout as a powerful and necessary tool for robust data exploration and analysis. Students should emerge from the course with a deeper knowledge of the crucial role of data in society and appropriate methodologies for data organization, visualization, analysis, and reporting. Emphasis is placed on preparing students for ethical and informed engagement with data both in future courses and life beyond academia.						
	J. KUOHA	\$520.00	\$52.00	\$20.00		\$592.00	Prerequisites: MTH-095 or higher with a C or better or placement into MTH-105Z or higher						
OC NCT	MTH-095-05	347568 TTH			1-2:50 PM		OC NCT	MTH-108-01	347571 MW			1-2:50 PM	
	M. CHASE	\$520.00	\$52.00	\$20.00		\$592.00		K. MERCER	\$520.00	\$52.00	\$20.00		\$592.00
OC NCT	MTH-095-06	347569 TTH			8-9:50 AM		Campus Locations:						
	M. CHASE	\$520.00	\$52.00	\$20.00		\$592.00	HAR: Harmony Community Campus						
OC HYB NCT	MTH-095-10	343267 TBA					OC: Oregon City Campus						
	S. PRUYN	\$520.00	\$52.00	\$20.00		\$592.00	WILS: Wilsonville Training Center						
This is an online course that meets in-person for orientation and testing dates only. Mandatory Meetings: First Week Orientation (1 hour): Wednesday, 1/7 at 6:00 pm or Thursday, 1/8 at 1:00 pm. Week 3 Exam (2 hours): Wednesday, 1/21 at 6:00 pm or Thursday, 1/22 at 1:00 pm. Week 7 Exam (2 hours): Wednesday, 2/18 at 6:00 pm or Thursday, 2/19 at 1:00 pm. Final Exam (2 hours): Wednesday, 3/18 at 6:00 pm or Thursday, 3/19 at 1:00 pm.							OFF: Other Off-Campus Location						
							Distance Education Notification:						
							ONL: Online Only						
							REM: Remote (w/ scheduled meetings)						
							HYB: In-person plus online work						
							Other Coding Translations:						
							TBA: To be arranged: contact department first class						
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							ESPAÑOL: Enseñado en español						
							LCT: Low-Cost Text						
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Course No	Course Title, Credits					
Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time			
Instructor	Tuition	Fee	Crs. Fee	Total		

MTH-111Z PRECALCULUS I: FUNCTIONS, 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.

Prerequisites: MTH-095 with a C or better, or placement in MTH-111Z

Recommended Prerequisites: WRD-098 or placement in WR-121Z

HAR NCT	MTH-111Z-01	343294 TTH		6-7:50 PM		
	M. HUNTER	\$520.00	\$52.00	\$20.00	\$592.00	
OC NCT	MTH-111Z-02	345561 TTH		10-11:50 AM		
	K. PHILLIPS	\$520.00	\$52.00	\$20.00	\$592.00	
OC NCT	MTH-111Z-03	343298 TTH		1-2:50 PM		
	B. WEBBER	\$520.00	\$52.00	\$20.00	\$592.00	
OC NCT	MTH-111Z-04	343300 TTH		3-4:50 PM		
	K. PHILLIPS	\$520.00	\$52.00	\$20.00	\$592.00	
OC NCT	MTH-111Z-05	347572 MW		10-11:50 AM		
	S. PRUYN	\$520.00	\$52.00	\$20.00	\$592.00	
OC HYB NCT	MTH-111Z-10	343305 TBA				
	F. CARTER	\$520.00	\$52.00	\$20.00	\$592.00	
This is an online course that meets in-person for orientation and testing dates only. Mandatory Meetings: First Week Orientation (1 hour): Wednesday, 1/7 at 6:00 pm or Thursday, 1/8 at 1:00 pm. Week 3 Exam (2 hours): Wednesday, 1/21 at 6:00 pm or Thursday, 1/22 at 1:00 pm. Week 7 Exam (2 hours): Wednesday, 2/18 at 6:00 pm or Thursday, 2/19 at 1:00 pm. Final Exam (2 hours): Wednesday, 3/18 at 6:00 pm or Thursday, 3/19 at 1:00 pm.						

MTH-112Z PRECALCULUS II: TRIGONOMETRY, 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.

Prerequisites: MTH-111Z with a C or better, or placement in MTH-112Z

Recommended Prerequisites: WRD-098 or placement in WR-121Z

OC NCT	MTH-112Z-01	343309 TTH		10-11:50 AM		
	F. CARTER	\$520.00	\$52.00	\$20.00	\$592.00	
OC NCT	MTH-112Z-02	343312 TTH		1-2:50 PM		
	E. MEUSER	\$520.00	\$52.00	\$20.00	\$592.00	
OC NCT	MTH-112Z-03	345562 MW		10-11:50 AM		
	F. CARTER	\$520.00	\$52.00	\$20.00	\$592.00	
OC NCT	MTH-112Z-04	345563 TTH		3-4:50 PM		
	E. MEUSER	\$520.00	\$52.00	\$20.00	\$592.00	

MTH-212 FUNDAMENTALS OF ELEMENTARY MATH II, 4 CREDITS

A course designed to teach students to understand the basic concepts of mathematics and provide ideas for teaching these concepts to elementary school children. Focuses on modeling and working with integers, fractions, decimals, ratios, percents, and the real numbers. Introduces elementary algebra and statistics. MTH-212 and MTH-213 can be taken in any order.

Prerequisites: MTH-211

Recommended Prerequisites: WRD-098 or placement in WR-121Z

Course No	Course Title, Credits					
Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time			
Instructor	Tuition	Fee	Crs. Fee	Total		

OC NCT	MTH-212-01	343318 TTH		1-2:50 PM		
	S. VALDES	\$520.00	\$52.00	\$20.00	\$592.00	
This section will have three in-person, proctored exams.						

MTH-231 ELEMENTS OF DISCRETE MATHEMATICS, 4 CREDITS

Students will be introduced to discrete structures and techniques for computing. The course, which is the first in the two-term sequence, aims to convey the skills in discrete mathematics that are used in the study and practice of computer science. Topics include: Sets; Graphs and Trees; Functions: properties, recursive definitions, solving recurrences; Relations: properties, equivalence, partial order; Proof techniques: inductive proof; Counting techniques and discrete probability.

Prerequisites: MTH-251Z

oc	MTH-231-01	342468 TTH		3-4:50 PM		
	J. KUOHA	\$520.00	\$52.00	\$20.00	\$592.00	

MTH-244 STATISTICS II, 4 CREDITS

The tools learned in Statistics I are purposed for inference of data via the use of hypothesis tests and confidence intervals for both one and two populations, linear regression, and chi-square tests.

Prerequisites: STAT-243Z with a C or better

Recommended Prerequisites: WRD-098 or placement in WR-121Z

OC NCT	MTH-244-01	343320 MW		10-11:50 AM		
	T. BIEBER	\$520.00	\$52.00	\$20.00	\$592.00	

MTH-251Z DIFFERENTIAL CALCULUS, 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.

Prerequisites: MTH-112Z with a C or better, or placement in MTH-251Z

Recommended Prerequisites: WRD-098 or placement in WR-121Z

OC NCT	MTH-251Z-01	343323 MW		10-11:50 AM		
	E. KELLY	\$520.00	\$52.00	\$20.00	\$592.00	
OC NCT	MTH-251Z-02	343325 TTH		8-9:50 AM		
	M. PRICE	\$520.00	\$52.00	\$20.00	\$592.00	
OC NCT	MTH-251Z-03	345564 MW		3-4:50 PM		
	M. PRICE	\$520.00	\$52.00	\$20.00	\$592.00	

MTH-252Z INTEGRAL CALCULUS, 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.

Prerequisites: MTH-251Z with a C or better

Recommended Prerequisites: WRD-098 or placement in WR-121Z

OC NCT	MTH-252Z-01	343327 TTH		10-11:50 AM		
	M. PARTNOF	\$520.00	\$52.00	\$20.00	\$592.00	
OC NCT	MTH-252Z-02	343330 MW		3-4:50 PM		
	M. PARTNOF	\$520.00	\$52.00	\$20.00	\$592.00	

MTH-253Z CALCULUS: SEQUENCES AND SERIES, 4 CREDITS**Campus Locations:**

HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
OFF: Other Off-Campus Location

Distance Education Notification:

ONL: Online Only
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HYB: In-person plus online work

Other Coding Translations:

TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español

LCT: Low-Cost Text
NCT: No-Cost Text

Course No	Course Title, Credits					
Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total
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.						
Prerequisites: MTH-252Z with a C or better						
Recommended Prerequisites: WRD-098 or placement in WR-121Z						
OC NCT	MTH-253Z-01	343331 MW			3-4:50 PM	
	S. PRUYN		\$520.00	\$52.00	\$20.00	\$592.00

MTH-256 DIFFERENTIAL EQUATIONS, 4 CREDITS

This course is an introduction to the study of first-order differential equations, first-order systems of differential equations, linear systems of differential equations, and applications of these topics.

Prerequisites: MTH-252Z with a C or better

OC HYB NCT	MTH-256-01	343335 W			9-11:50 AM	
	A. HALL		\$520.00	\$52.00	\$20.00	\$592.00

MTH-275 A BRIDGE TO UNIVERSITY MATHEMATICS, 3 CREDITS

This is a bridge course designed to help students transition from computation-based mathematics to the more proof-based curriculum typical of junior and senior collegiate-level mathematics courses. Students will construct and validate proofs, explore the nature of mathematics, and navigate some of the systems and conventions used within the mathematics community. May be repeated for up to 6 credits.

Prerequisites: MTH-251Z

REM NCT	MTH-275-01	343338 S			1-2:50 PM	
	M. YANNOTTA		\$0.00	\$0.00	\$0.00	\$0.00
Required: Student Petition.						

Medical Assistant

For more information, contact Health Sciences at healthsciences@clackamas.edu

MA-156 PHLEBOTOMY I, 1 CREDIT

This course is designed to introduce students to the fundamental skills required for phlebotomy as a medical assistant. Students will become familiar with phlebotomy equipment and learn about basic blood collection procedures. The course will focus on the basic skills needed for patient interactions, documentation, and various phlebotomy techniques.

Prerequisites: MA-150, MA-152, MA-152L, MA-154, and MA-158

Corequisites: MA-156L, MA-160, MA-162, MA-162L, MA-164, MA-164L, and MA-168

Required: Student must be enrolled in current Medical Assistant cohort

ONL	MA-156-01	342212				
	E. ZUNIGA		\$130.00	\$13.00	\$0.00	\$143.00

MA-156L PHLEBOTOMY I LAB, 1 CREDIT

This lab is designed to apply the hands-on skills that were introduced to students in the lecture class. This lab is designed to introduce students to the fundamental skills required for phlebotomy as a medical assistant. Students will become familiar with phlebotomy equipment and learn about basic blood collection procedures. The course will focus on the basic skills needed for patient interactions, documentation, capillary punctures and various phlebotomy techniques.

Course No	Course Title, Credits					
Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total
Prerequisites: MA-150, MA-152, MA-152L, MA-154, and MA-158						
Corequisites: MA-156, MA-160, MA-162, MA-162L, MA-164, MA-164L, and MA-168						
Required: Student must be enrolled in current Medical Assistant cohort						
HAR	MA-156L-01	342213 TH			9-12:00 PM	
	J. ALLISON		\$130.00	\$13.00	\$100.00	\$243.00
	E. ZUNIGA					
HAR	MA-156L-02	342214 TH			1-4:00 PM	
	J. ALLISON		\$130.00	\$13.00	\$100.00	\$243.00
	E. ZUNIGA					

MA-160 INSURANCE & HEALTH INFORMATION MANAGEMENT, 3 CREDITS

This course introduces medical assisting students to practical applications for billing medical insurance both manually and electronically. The course is designed to instruct the student in all phases of billing and insurance procedures and entry-level Electronic Health Record software for the management of medical records. The students are also introduced to basic ICD-10 Diagnosis and Procedural coding skills. This course is required for medical assistant students. This course does not meet the requirements for Insurance Coder certification.

Prerequisites: MA-150, MA-152, MA-152L, MA-154, and MA-158

Corequisites: MA-156, MA-156L, MA-162, MA-162L, MA-164, MA-164L, and MA-168

Required: Student must be enrolled in current Medical Assistant cohort

ONL	MA-160-01	342215				
	S. DAVENPORT		\$390.00	\$39.00	\$55.00	\$484.00

MA-162 EXAMINATION ROOM TECHNIQUES II, 3 CREDITS

This course builds upon the foundational skills introduced in Examination Room Techniques I. The course will focus on advanced medical assisting skills such as medication administration, patient care interactions, immunization, special exam procedures, EKGs, and assisting providers. This course will incorporate specialty clinics and advanced procedures.

Prerequisites: MA-150, MA-152, MA-152L, MA-154, and MA-158

Corequisites: MA-156, MA-156L, MA-160, MA-162L, MA-164, MA-164L, and MA-168

Required: Student must be enrolled in current Medical Assistant cohort

ONL	MA-162-01	342216				
	S. PARKER		\$390.00	\$39.00	\$145.00	\$574.00

MA-162L EXAMINATION ROOM TECHNIQUES LAB II, 1 CREDIT

This lab is designed to apply the hands-on skills that were introduced to students in the lecture class. This lab will cover hands-on skills required for medical assisting in an exam room by adding advanced procedures to the basic rooming techniques. The lab will include advanced medical assisting skills such as medication administration, patient care interactions, immunization, special exam procedures, EKGs, and assisting providers. This lab will incorporate specialty clinics and advanced procedures.

Prerequisites: MA-150, MA-152, MA-152L, MA-154, and MA-158

Corequisites: MA-156, MA-156L, MA-160, MA-162, MA-164, MA-164L, and MA-168

Required: Student must be enrolled in current Medical Assistant cohort

HAR HYB	MA-162L-01	342217 T			9-12:00 PM	
	S. DAVENPORT		\$130.00	\$13.00	\$160.00	\$303.00
	S. PARKER					
HAR HYB	MA-162L-02	342218 TH			9-12:00 PM	
	S. DAVENPORT		\$130.00	\$13.00	\$160.00	\$303.00
	S. PARKER					

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Other Coding Translations:

TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español

LCT: Low-Cost Text
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Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total

MA-164 CLINICAL LAB PROCEDURES I, 1 CREDIT

This theory course is designed to instill a basic understanding of common laboratory terminology and procedures used in a general medical office laboratory to aid the physician in the diagnosis and treatment of disease. Laboratory safety, the prevention of bloodborne disease transmission and scope of practice will be emphasized. First course in the Clinical Laboratory Procedures series.

Prerequisites: MA-150, MA-152, MA-152L, MA-154, and MA-158

Corequisites: MA-156, MA-156L, MA-160, MA-162, MA-162L, MA-164L, and MA-168

Required: Student must be enrolled in current Medical Assistant cohort

ONL	MA-164-01	342219	S. DAVENPORT			\$130.00	\$13.00	\$40.00		\$183.00
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MA-164L CLINICAL LAB PROCEDURES I LAB, 1 CREDIT

This laboratory course is designed to instill a basic understanding of common laboratory terminology and procedures used in a general medical office laboratory to aid the physician in the diagnosis and treatment of disease. Laboratory safety, the prevention of bloodborne disease transmission and scope of practice will be emphasized. This is the first lab course in the Clinical Laboratory Procedures series.

Prerequisites: MA-150, MA-152, MA-152L, MA-154, and MA-158

Corequisites: MA-156, MA-156L, MA-160, MA-162, MA-162L, MA-164, and MA-168

Required: Student must be enrolled in current Medical Assistant cohort

HAR	MA-164L-01	342220 T	S. DAVENPORT			\$130.00	\$13.00	\$170.00		\$313.00
HAR	MA-164L-02	342221 TH	S. DAVENPORT			\$130.00	\$13.00	\$170.00		\$313.00

MA-168 SEMINAR II, 2 CREDITS

This course will expand on professionalism within the healthcare setting and students will interview and obtain clinical practicum placement.

Prerequisites: MA-150, MA-152, MA-152L, MA-154, and MA-158

Corequisites: MA-156, MA-156L, MA-160, MA-162, MA-162L, MA-164, and MA-164L

Required: Student must be enrolled in current Medical Assistant cohort

HAR	MA-168-01	342222 W	S. PARKER			\$260.00	\$26.00	\$0.00		\$286.00
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Medical Billing and Coding**MBC-115 INSURANCE BILLING AND REIMBURSEMENT I, 4 CREDITS**

First course of a two part series. This course introduces the student to health insurance, insurance billing and reimbursement. Students will study the health insurance industry, legal and regulatory issues, and differences in reimbursement methods. The principles of medical billing will be covered, including proper claim form preparation.

Required: Medical Billing and Coding students only

REM	MBC-115-01	342223 M	C. GARNER			\$520.00	\$52.00	\$200.00		\$772.00
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MBC-120 INTRODUCTION TO MEDICAL CODING, 3 CREDITS

This course will explore the fundamental medical coding skills for professional services, such as physicians, mid-level providers, etc. Students will investigate the fundamentals of Diagnostic and Procedural medical coding.

Required: Medical Billing and Coding students only

REM	MBC-120-01	342224 W	C. GARNER			\$390.00	\$39.00	\$200.00		\$629.00
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MBC-135 LAW AND ETHICS FOR HEALTHCARE PROFESSIONS, 3 CREDITS

This course introduces legislation affecting healthcare, along with a review of issues such as professional liability, informed consent, privacy and security laws, electronic health records and workplace legalities. A variety of ethical issues in health care are explored, as well as an examination of future trends in health care.

Required: Medical Billing and Coding students only

ONL	MBC-135-01	342225	C. GARNER			\$390.00	\$39.00	\$81.80		\$510.80
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Online textbook included in section fees.

Music**MUP-102 WIND ENSEMBLE, 1 CREDIT**

For non-majors and music majors. Introduction and study of traditional and contemporary band literature. This course is taken each term in one's first year of a two-year course of study that includes performance, study of common styles and practices of historically and culturally significant composers/arrangers, and study of historical issues related to the development and performance of band literature. Provides a thorough groundwork in the fundamental ideas, techniques, and practices of band music and ensemble performance. No audition required. May be repeated for up to 3 credits.

Required: Completion of high school or high school performance level. Ability to read music and play a band instrument

OC NCT	MUP-102-01	342260 TTH	L. CAMPBELL			\$130.00	\$13.00	\$0.00		\$143.00
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MUP-104 JAZZ COMBO, 1 CREDIT

Instrumental performing group concentrating on rock, pop, and contemporary styles in the small to medium-sized group setting. No audition required. May be repeated for up to 8 credits.

Recommended Prerequisites: MUP-105

OC NCT	MUP-104-01	342261 M	C. DOGGETT			\$130.00	\$13.00	\$0.00		\$143.00
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MUP-105 JAZZ ENSEMBLE, 1 CREDIT

For non-majors and music majors. Introduction and study of common 'big-band' and small-group jazz styles. This course is taken each term in one's first year of a two-year course of study that includes performance, improvisation, musical arranging and writing, study of common styles and practices of historically and culturally significant jazz artists, and study of historical issues related to the development and performance of jazz music. May be repeated for up to 3 credits.

Recommended Prerequisites: MUP-102

OC NCT	MUP-105-01	342262 MW	L. CAMPBELL			\$130.00	\$13.00	\$0.00		\$143.00
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MUP-122 VOCAL ENSEMBLE, 2 CREDITS

An introductory performance ensemble open to all students wishing to sing in a choral ensemble. Designed for non-majors and majors who need preparation for MUP-125.

Recommended: A desire to sing in a large and fun ensemble. An interest in exploring the roots of American music

Campus Locations:

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Other Coding Translations:

TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español

LCT: Low-Cost Text
NCT: No-Cost Text

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time	Tuition	Fee	Crs. Fee	Total
OC LCT	MUP-122-01 342263 TTH K. HOLLINGSWORTH \$260.00 \$26.00 \$52.00 \$338.00 Vocal placement required for private lessons and vocal ensembles. New students attend in Room N114 on 1/5 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.				3-4:50 PM				
MUP-125 ADVANCED VOCAL ENSEMBLE, 2 CREDITS An advanced vocal performance ensemble open by audition only. Open to majors and students with vocal experience, sight-reading ability. AVE will travel to perform and a minimum three-term commitment is highly encouraged.									
OC NCT	MUP-125-01 342265 MW K. HOLLINGSWORTH \$260.00 \$26.00 \$52.00 \$338.00 Vocal placement required for private lessons and vocal ensembles. New students attend in Room N114 on 1/5 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.				3-4:50 PM				
MUP-141 COLLEGE ORCHESTRA, 1 CREDIT Performance and study of orchestral literature. College students may earn credit for playing in one of several approved orchestral groups. Minimum of one performance per term. May be repeated for up to 8 credits. Required: Student Petition.									
OC NCT	MUP-141-01 342266 TBA L. CAMPBELL \$130.00 \$13.00 \$0.00 \$143.00 Required: Student Petition.								
MUP-150 CONTEMPORARY MUSIC ENSEMBLE, 2 CREDITS This course is a performance ensemble open to all musicians who wish to play pop, rock, popular music. May be repeated for up to 12 credits. Required: Pass proficiency audition									
OC NCT	MUP-150-01 342267 MW K. DEITZ \$260.00 \$26.00 \$50.00 \$336.00 K. HOLLINGSWORTH Vocal placement required for private lessons and vocal ensembles. New students attend in Room N114 on 1/5 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.				1-2:50 PM				
MUP-158 CHAMBER ENSEMBLE, 1 CREDIT Rehearsal and performance of traditional vocal and instrumental chamber music (one musician per part). Includes concerts and coaching by area professionals. Highly recommended for music majors. First of a two-part series. May be repeated for up to 8 credits.									
OC NCT	MUP-158-01 342269 TH D. TUTMARK \$130.00 \$13.00 \$85.00 \$228.00 Guitar Ensemble.				1-2:50 PM				
OC NCT	MUP-158-02 342273 TBA G. HARRIS \$130.00 \$13.00 \$85.00 \$228.00 Saxophone Quartet.								
OC NCT	MUP-158-03 342274 TBA TBA \$130.00 \$13.00 \$85.00 \$228.00 Brass Quintet.								
OC NCT	MUP-158-04 342275 TBA TBA \$130.00 \$13.00 \$85.00 \$228.00 Woodwind Quintet.								
OC NCT	MUP-158-05 342276 TBA Y. MIYAMA \$130.00 \$13.00 \$85.00 \$228.00 Piano Chamber Ensemble.								
MUP-202 WIND ENSEMBLE, 1 CREDIT For non-majors and music majors. Introduction and study of traditional and contemporary band literature. This is the second year of a two-year course of study that includes performance, study of common styles and practices of historically and culturally significant composers/arrangers, and study of historical issues related to the development and performance of band literature. Provides a thorough groundwork in the fundamental ideas, techniques, and practices of band music and ensemble performance. No audition required. May be repeated for up to 6 credits. Required: Completion of high school or high school performance level. Ability to read music and play a band instrument Prerequisites: MUP-102 (3 credits)									
OC NCT	MUP-202-01 342345 TTH L. CAMPBELL \$130.00 \$13.00 \$0.00 \$143.00				3-4:30 PM				
MUP-204 JAZZ COMBO, 1 CREDIT Instrumental performing group concentrating on rock, pop, and contemporary styles in the small to medium-sized group setting. No audition required. May be repeated for up to 8 credits. Prerequisites: MUP-104 (3 credits) Recommended Prerequisites: MUP-105									
OC NCT	MUP-204-01 342347 M C. DOGGETT \$130.00 \$13.00 \$0.00 \$143.00				12-12:50 PM				
MUP-205 JAZZ ENSEMBLE, 1 CREDIT For non-majors and music majors. Introduction and study of common big-band and small-group jazz styles. This is the second year of a two-year course of study that includes performance, improvisation, musical arranging and writing, study of common styles and practices of historically and culturally significant jazz artists, and study of historical issues related to the development and performance of jazz music. May be repeated for up to 3 credits. Prerequisites: MUP-105 (3 credits)									
OC NCT	MUP-205-01 342350 MW L. CAMPBELL \$130.00 \$13.00 \$0.00 \$143.00				3-4:30 PM				
MUP-222 VOCAL ENSEMBLE, 2 CREDITS Second year beginning vocal ensemble open to all students wishing to sing in a choral ensemble. Designed for non-majors and majors who need preparation for MUP-225. Performs various genres of vocal music. Emphasis on sight reading, basic vocal production and ensemble singing. May be repeated for up to 6 credits. Prerequisites: MUP-122 (6 credits)									
OC LCT	MUP-222-01 342352 TTH K. HOLLINGSWORTH \$260.00 \$26.00 \$52.00 \$338.00 Vocal placement required for private lessons and vocal ensembles. New students attend in Room N114 on 1/5 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.				3-4:50 PM				
MUP-225 ADVANCED VOCAL ENSEMBLE, 2 CREDITS Second year advanced vocal performance ensemble open by audition only. Open to majors and students with vocal experience, sight-reading ability. AVE will travel to perform, will record in the studio and a minimum three-term commitment is highly encouraged. May be repeated for up to 6 credits. Prerequisites: MUP-125 (6 credits)									

Campus Locations:

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46 For information about Clackamas Community College, call 503-594-6000

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
OC NCT	MUP-225-01 342354 MW K. HOLLINGSWORTH \$260.00 \$26.00 \$52.00 \$338.00 Vocal placement required for private lessons and vocal ensembles. New students attend in Room N114 on 1/5 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.							3-4:50 PM		
MUP-241 COLLEGE ORCHESTRA, 1 CREDIT	Performance and study of orchestral literature. College students may earn credit for playing in one of several approved orchestral groups. Minimum of one performance per term. May be repeated for up to 4 credits. Required: Student Petition.									
OC NCT	MUP-241-01 342356 TBA L. CAMPBELL \$130.00 \$13.00 \$0.00 \$143.00 Required: Student Petition.									
MUS-101 MUSIC FUNDAMENTALS, 3 CREDITS	Introduction to fundamentals of reading and writing music. Designed for non-majors or majors needing substantial preparation for MUS-111.									
ONL	MUS-101-01 342438 J. HEDBERG \$390.00 \$39.00 \$10.00 \$439.00									
MUS-103 APPLIED MUSIC FUNDAMENTALS, 3 CREDITS	A continuation of an introduction to fundamentals of music theory. Designed for MPT/MT or AS Transfer students who need substantial preparation for MUS-111 and interested non-majors. Prerequisites: MUS-102									
oc	MUS-103-01 342443 T K. HOLLINGSWORTH \$390.00 \$39.00 \$10.00 \$439.00							10-11:20 AM 10-11:20 AM		
MUS-105 MUSIC APPRECIATION, 3 CREDITS	For non-majors and music majors. Emphasis on engaging in the study of instrumental and vocal musical genres from the ancient period through the contemporary music of our time. Includes critical analysis, study of elements, forms, styles, composers, performers, cultural, and historical issues and events. Recommended Prerequisites: WRD-098 or placement in WR-121Z									
ONL	MUS-105-01 342445 J. HEDBERG \$390.00 \$39.00 \$0.00 \$429.00									
MUS-106 AUDIO RECORDING AT HOME, 1 CREDIT	An overview of the basic tools and techniques used in audio recording at home. Depending on participant needs, topics may include signal path, microphone applications, software, hardware, outboard gear, soldering techniques, tracking, mixing, and editing.									
OC LCT	MUS-106-01 342448 F D. BADSTUBNER \$130.00 \$13.00 \$99.00 \$242.00 Meets: 2/6 & 2/7.							6-9:00 PM 12-8:00 PM		
MUS-107 INTRODUCTION TO AUDIO RECORDING I, 3 CREDITS	Introduction to the basic techniques and tools used in audio recording. Areas of study include signal path, microphone applications, software, hardware, outboard gear, tracking, mixing, and editing.									
oc	MUS-107-01 342453 M D. BADSTUBNER \$390.00 \$39.00 \$99.00 \$528.00							6:30 -9:20 PM		
MUS-108 INTRODUCTION TO AUDIO RECORDING II, 3 CREDITS	Exploration of techniques and tools used in audio recording. Analog, digital, and hard drive recording will be explored. Areas of study include multi-tracking, signal path, microphone applications, software, hardware, outboard gear, soldering techniques, tracking, mixing, and editing. Software/hardware includes ProTools, ADAT, Mackie, etc. Prerequisites: MUS-107									
oc	MUS-108-01 342459 T D. BADSTUBNER \$390.00 \$39.00 \$99.00 \$528.00							6:30 -9:20 PM		
OC LCT	MUS-108-02 342463 M D. BADSTUBNER \$390.00 \$39.00 \$99.00 \$528.00							1-3:50 PM		
MUS-109 INTRODUCTION TO AUDIO RECORDING III, 3 CREDITS	Exploration of digital recording/editing software and production of CD project. Advanced exploration of techniques and tools used in audio recording. Areas of study include signal path, microphone applications, software, hardware, outboard gear, tracking, mixing, and editing. Analog, digital, and hard drive recording will be explored. Software/hardware includes ProTools, ADAT, Mackie, etc. Prerequisites: MUS-108									
oc	MUS-109-01 342466 T D. BADSTUBNER \$390.00 \$39.00 \$99.00 \$528.00							6:30 -9:20 PM		
OC LCT	MUS-109-02 342469 M D. BADSTUBNER \$390.00 \$39.00 \$99.00 \$528.00							1-3:50 PM		
MUS-112 MUSIC THEORY I, 3 CREDITS	For non-majors and music majors. Presents functional harmony through written exercises, listening, and analysis. This is the second term of a three-term sequence, which includes voice leading, nonharmonic tones, three-voice and four-voice chorale writing, figured bass, and small melodic structures. Provides a thorough groundwork in the melodic, harmonic, and rhythmic elements of music. Prerequisites: MUS-111 Corequisites: MUS-112L, MUS-115, and MUS-128 for AS in music degree seekers. This requirement does not affect non-music majors or MPT Majors									
OC LCT	MUS-112-01 342471 TTH R. OLASON \$390.00 \$39.00 \$0.00 \$429.00							10-11:20 AM		
MUS-112L MUSIC NOTATION SOFTWARE I, 1 CREDIT	Continues an introduction to Finale (music notation software) on Macintosh computers.									
OC LCT	MUS-112L-01 342474 M D. FLESCNER \$130.00 \$13.00 \$44.00 \$187.00							10-11:50 AM		
MUS-115 AURAL SKILLS I, 2 CREDITS	Second of three courses in a year-long sequence. Diatonic sight singing in major keys using solfège syllables and moveable 'do'. Melodic dictation and aural recognition of intervals, triads, and 7th chords. Corequisites: MUS-112 Prerequisites: MUS-114									
oc	MUS-115-01 342476 TTH R. OLASON \$260.00 \$26.00 \$0.00 \$286.00							1-1:50 PM		
MUS-128 KEYBOARD SKILLS I, 2 CREDITS	Develops basic keyboard skills required for study of tonal harmony and various musical activities such as vocal and instrumental rehearsals, music education and composition. Corequisites: MUS-112, MUS-112L, and MUS-115 Prerequisites: MUS-127									

Campus Locations:
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Distance Education Notification:
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Other Coding Translations:
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Course Listing

2026/WI

Course No	Course Title, Credits					
	Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Total
OC LCT	MUS-128-01 R. OLASON	342479 TTH		\$260.00	\$26.00	\$296.00

MUS-132 GROUP PIANO: PIANO FOR PLEASURE, 1 CREDIT

Second of three courses in a year-long sequence. Beginning classroom piano instruction for non-music majors. Includes reading, theory, technical exercises, and the opportunity to share your music with others. Beginning to intermediate level.

OC LCT	MUS-132-01 T. STOJANOVIC	342481 TTH		\$130.00	\$13.00	\$228.00
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MUS-137 GROUP GUITAR I, 1 CREDIT

For beginning to intermediate players. Covers finger picking, lead guitar, rock and popular styles, music reading, and music theory. Students provide own instrument.

OC	MUS-137-01 D. TUTMARK	342485 TH		\$130.00	\$13.00	\$228.00
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MUS-138 GROUP GUITAR II, 1 CREDIT

For intermediate to advanced players. Covers finger picking, lead guitar, rock and popular styles, music reading, and music theory. Students provide their own instrument.

Prerequisites: MUS-137

OC	MUS-138-01 D. TUTMARK	342487 TH		\$130.00	\$13.00	\$228.00
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MUS-140 CAREERS IN MUSIC, 3 CREDITS

An overview of the music industry career opportunities. Studies include recording studio management/engineering, music merchandising, promotion, music contracting, agent/personal manager, live performing, teaching, technical support, record business, video and film production/editing, retailing, and instrument repair.

REM LCT	MUS-140-01 D. FLESCHNER	342489 W		\$390.00	\$39.00	\$429.00
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MUS-142 INTRODUCTION TO ELECTRONIC MUSIC I: MIDI, 3 CREDITS

Introduction to synthesis, MIDI sequencing, basic musical elements, and the basics of production. Learn how to make beats, songs, etc. Uses common production software/hardware.

OC LCT	MUS-142-01 A. HAAK	342491 T		\$390.00	\$39.00	\$528.00
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MUS-143 INTRODUCTION TO ELECTRONIC MUSIC II: SEQUENCING, AUDIO LOOPING, SOUND EFX, 3 CREDITS

An introduction to digital audio in the MIDI environment. This course continues MIDI sequencing, and integrates audio into the MIDI environment with audio looping, and spotting sound effects. Uses common production software/hardware.

Prerequisites: MUS-142

OC LCT	MUS-143-01 A. HAAK	342494 TH		\$390.00	\$39.00	\$528.00
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MUS-144 INTRODUCTION TO ELECTRONIC MUSIC III: DIGITAL AUDIO, 3 CREDITS

Exploration of digital music recording and editing, synthesis, sampling, and sequencing. Presents CD/audio file production techniques integrating digital audio with the MIDI sequence. Uses Pro Tools, and other common production software/hardware.

Course No	Course Title, Credits					
	Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Total

Prerequisites: MUS-143

OC LCT	MUS-144-01 A. HAAK	342496 TH		\$390.00	\$39.00	\$528.00
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MUS-147 MUSIC, SOUND & MOVIE MAKING, 1 CREDIT

Presents the basic components of designing, shooting, recording audio, and post production of movies as well as the history and theory that has led to contemporary film production.

OC LCT	MUS-147-01 B. ROSE	342173 F S		\$130.00	\$13.00	\$242.00
Meets: 1/30 & 1/31.						

MUS-160 SONGWRITING I, 2 CREDITS

Studies the techniques of a working songwriter, including use of form, lyrics, harmonic progressions and symbolism in the creative aspect of songwriting. Solo writing as well as the concept of collaboration are introduced. Participants will work individually and/or in small groups to record original songs. May be repeated for up to 4 credits.

Required: Working proficiency at playing an instrument such as piano, guitar, voice, or equivalent. Computer generated music is also acceptable

OC LCT	MUS-160-01 L. POLLARD	342499 T		\$260.00	\$26.00	\$336.00
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MUS-171 SOUND DESIGN, 2 CREDITS

This course introduces students to the fundamentals of sound design through a series of practical, hands-on activities. Students will gain an understanding of the skills, tools, and concepts used in the creation and synchronization of sound effects in modern visual media. Through a thorough introduction to sound recording, editing and mixing, audio manipulation, and electronic synthesis, this course will provide students with the knowledge and skills to create unique sound effects using industry standard software like Pro Tools, Propellerhead's Reason, Ableton Live, Native Instrument's Reaktor, and other sound design-specific software.

OC LCT	MUS-171-01 M. BAIRD	342501 W		\$260.00	\$26.00	\$286.00
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MUS-188 PERFORMANCE ATTENDANCE, 0 CREDIT

The student is expected to attend a minimum of five live performances approved by the Music Department for each term registered.

OC	MUS-188-01 L. CAMPBELL	342503 T		\$0.00	\$0.00	\$0.00
Required meeting 1/6. Find free on-campus performances for students at clackamasmusic.eventbrite.com .						

MUS-189 PERFORMANCE & REPERTOIRE, 1 CREDIT

A performance forum required for all students studying a classical instrument or voice at the MUP-171 to MUP-191 and MUP-271 to MUP-291 levels. Through weekly performance and critique, each student will develop proper stage manners and prepare for the end of term performance jury, and will also study the work to be performed through academic research. Students will have an opportunity to work with a professional accompanist. May be repeated for up to 6 credits. Required: Student Petition.

OC LCT	MUS-189-01 J. ISRAELS B. MICHAEL	342506 W		\$130.00	\$13.00	\$143.00
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MUS-206 MUSIC LITERATURE: HISTORY OF ROCK, 4 CREDITS

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Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time			
Instructor	Tuition	Fee	Crs. Fee	Total		

For non-majors and music majors. Emphasis on engaging in the study of Rock music and surrounding cultural/historical issues. Includes critical analysis, study of elements, forms, styles, composers, performers, cultural, and historical issues and events. An examination of Rock music as a contemporary social medium.

Recommended Prerequisites: WRD-098 or placement in WR-121Z

oc	MUS-206-01	342511 MW	10-11:50 AM			
	K. DEITZ	\$520.00	\$52.00	\$0.00	\$572.00	
ONL	MUS-206-02	342516				
	J. HEDBERG	\$520.00	\$52.00	\$0.00	\$572.00	

MUS-208 ADVANCED AUDIO RECORDING & MIXING II: EDITING & MIX PREPARATION, 3 CREDITS

This course will address advanced editing and mix preparation techniques. Topics covered include vocal compilation, vocal tuning, drum editing, audio denoising, complex signal routing schemes, clip gain, vocal de-essing, vocal splitting etc. Tools explored in the class include Beat Detective, Melodyne, VocAlign, Auto-Align, iZotope, and Antares Auto Tune. Students will be introduced to the concept of custom mix templates, Pro Tools session data, and creating track presets.

Prerequisites: MUS-109

Recommended Prerequisites: MUS-207

oc	MUS-208-01	347633 TH	6:30 -9:20 PM			
	D. BADSTUBNER	\$390.00	\$39.00	\$0.00	\$429.00	

MUS-212 MUSIC THEORY II, 3 CREDITS

For non-majors and music majors. Continuation of the study of harmony and period styles through written exercises, compositions, listening, and analysis. This is the second term of a three-term sequence, which includes the classical style, extended, and chromatic harmony.

Required: Ability to read music

Prerequisites: MUS-211

Corequisites: MUS-215 and MUS-225

oc LCT	MUS-212-01	342517 MW	10-11:20 AM			
	R. OLASON	\$390.00	\$39.00	\$269.00	\$698.00	

MUS-215 KEYBOARD SKILLS II, 2 CREDITS

Second course in the sequential second year of advanced keyboard applications covering the materials of diatonic and chromatic music.

Corequisites: MUS-212

Prerequisites: MUS-214

oc LCT	MUS-215-01	342519 MW	2-2:50 PM			
	R. OLASON	\$260.00	\$26.00	\$85.00	\$371.00	

MUS-219 MPT SEMINAR II, 1 CREDIT

Second in a three-part series. For second year Music Performance and Technology AAS students only. Seminar will cover writing, arranging, production, performance and music theory through experiential learning. Students will produce, write and arrange for each CME/Songwriters concert and will produce the Annual MPT/Garage Band Festival each spring.

Prerequisites: MUS-218

oc LCT	MUS-219-01	342522 M	12-12:50 PM			
	K. HOLLINGSWORTH	\$130.00	\$13.00	\$0.00	\$143.00	
	Field trip TBA.					

MUS-225 AURAL SKILLS II, 2 CREDITS

Second of three courses in a year-long sequence. Diatonic and chromatic sight singing with solfège syllables and moveable 'do'. Four-part dictation including all chromatic devices studied in Theory II.

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WILS: Wilsonville Training Center
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HYB: In-person plus online work

Course No	Course Title, Credits					
Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time			
Instructor	Tuition	Fee	Crs. Fee	Total		

Corequisites: MUS-212

Prerequisites: MUS-224

oc	MUS-225-01	342523 MW	1-1:50 PM			
	R. OLASON	\$260.00	\$26.00	\$85.00	\$371.00	

MUS-243 ADVANCED ELECTRONIC MUSIC II: ELECTRONIC MUSIC ENSEMBLE, 3 CREDITS

This course will utilize Ableton Live and introduce students to using the DAW (Digital Audio Workstation) in a performance environment. Topics covered include Session View, Launching Clips, Utilizing Grooves, Programming controllers via MIDI, Synchronizing Live with Link, Tempo Follower, and MIDI. Students will prepare compositions to perform live.

Prerequisites: MUS-144

oc	MUS-243-01	347635 T	4-6:50 PM			
	M. BAIRD	\$390.00	\$39.00	\$0.00	\$429.00	

MUS-248 LIVE SOUND ENGINEERING II, 3 CREDITS

Students will be introduced to advanced live sound principles including feedback rejection, graphic and parametric equalization of stage monitors and FOH, expanded setup, industry trends and vocabulary, advanced mic techniques, incorporating subwoofers, and digital console workflow. Attendance/Tours of local music venues and systems will be explored.

Prerequisites: MUS-148

oc	MUS-248-01	347684 W	6:30 -9:20 PM			
	D. BADSTUBNER	\$390.00	\$39.00	\$0.00	\$429.00	

MUS-280 MUSIC/CWE, 2-6 CREDITS

Cooperative work experience. Provides students with on-the-job work experience in the field of music. Required: Student Petition.

Corequisites: CWE-281

Prerequisites: MUS-107, MUS-140, and MUS-142

ONL LCT	MUS-280-01	342525				
	C. DOGGETT	\$780.00	\$78.00	\$144.00	\$1,002.00V	
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

ONL LCT	MUS-280-02	342527				
	G. HARRIS	\$780.00	\$78.00	\$144.00	\$1,002.00V	
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

XMUP-0001 UNISTUS CHOIR, 0 CREDIT

Select vocal ensemble which rehearses and performs choral music from the Renaissance to the 20th century, including the music of Estonia. Provides preparation for entering professional fields of music and performance. Emphasis on a cappella singing applied to appropriate chamber music. Provides an environment whereby individual students, selected according to their talents and attitudes, may assist the group at large in achieving its full potential which is that of excellence in choral expression. The achievement of this potential is our goal. By audition.

oc	XMUP-0001-01	342550 M	6-9:30 PM			
	L. CLINE	\$0.00	\$0.00	\$0.00	\$0.00	
	By audition only.					

Music: Individual Lessons - Non-Music Majors

MUP-100 INDIVIDUAL LESSONS: NON-MUSIC MAJORS, 1-2 CREDITS

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VAR: Variable credit class

ESPAÑOL: Enseñado en español

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Private lessons for beginners, non-music majors, and students who receive a low rating in MUP-171 through MUP-191 auditions. Brass, woodwind, percussion, string and keyboard instruments, and voice. May be repeated for up to 12 credits. Required: Student Petition.										
OC NCT	MUP-100-01 342226 TBA		K. POLITZER			\$130.00	\$13.00	\$225.00		\$368.00
	Required: Student Petition. Jazz Piano Lessons.									
OC NCT	MUP-100-02 342227 TBA		Y. MIYAMA			\$130.00	\$13.00	\$225.00		\$368.00
	Required: Student Petition. Piano Lessons.									
OC NCT	MUP-100-03 342228 TBA		D. FLECHNER			\$130.00	\$13.00	\$225.00		\$368.00
	Required: Student Petition. Rock, Blues, and Pop Piano Lessons.									
OC NCT	MUP-100-04 342229 TBA		J. ISRAELS			\$130.00	\$13.00	\$225.00		\$368.00
	Required: Student Petition. Voice Lessons. Vocal placement required for private lessons and vocal ensembles. New students attend in Room N114 on 1/5 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.									
OC NCT	MUP-100-05 342230 TBA		B. MICHAEL			\$130.00	\$13.00	\$225.00		\$368.00
	Required: Student Petition. Voice Lessons. Vocal placement required for private lessons and vocal ensembles. New students attend in Room N114 on 1/5 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.									
OC NCT	MUP-100-06 342231 TBA		D. D'AIGLE			\$130.00	\$13.00	\$225.00		\$368.00
	Required: Student Petition. Violin Lessons.									
OC NCT	MUP-100-07 342232 TBA		K. DEITZ			\$130.00	\$13.00	\$225.00		\$368.00
	Required: Student Petition. Bass Lessons.									
OC NCT	MUP-100-08 342233 TBA		D. TUTMARK			\$130.00	\$13.00	\$225.00		\$368.00
	Required: Student Petition. Guitar Lessons.									
OC NCT	MUP-100-09 342234 TBA		A. CSIKOS			\$130.00	\$13.00	\$225.00		\$368.00
	Required: Student Petition. Guitar Lessons.									
OC NCT	MUP-100-10 342235 TBA		G. HARRIS			\$130.00	\$13.00	\$225.00		\$368.00
	Required: Student Petition. Saxophone Lessons.									
OC NCT	MUP-100-11 342236 TBA		J. KLAUSE			\$130.00	\$13.00	\$225.00		\$368.00
	Required: Student Petition. Trumpet Lessons.									
OC NCT	MUP-100-12 342237 TBA		C. DOGGETT			\$130.00	\$13.00	\$225.00		\$368.00
	Required: Student Petition. Percussion & Drum Set Lessons.									
OC NCT	MUP-100-13 342238 TBA		S. TIEDEMANN			\$130.00	\$13.00	\$225.00		\$368.00
	Required: Student Petition. Flute Lessons.									
OC NCT	MUP-100-14 342239 TBA		T. STOJANOVIC			\$130.00	\$13.00	\$225.00		\$368.00
	Required: Student Petition. Piano Lessons.									
OC NCT	MUP-100-15 342240 TBA		C. LEE			\$130.00	\$13.00	\$225.00		\$368.00
	Required: Student Petition. Oboe Lessons.									
OC NCT	MUP-100-16 342241 TBA		B. GARDINER			\$130.00	\$13.00	\$225.00		\$368.00
	Required: Student Petition. Percussion Lessons.									
OC NCT	MUP-100-17 342242 TBA		L. CAMPBELL			\$130.00	\$13.00	\$225.00		\$368.00
	Required: Student Petition. Trombone Lessons.									
OC	MUP-100-18 347631 TBA		M. BAIRD			\$130.00	\$13.00	\$225.00		\$368.00
	Required: Student Petition. Electronic Music Lessons.									

Music: Individual Lessons - Year 1

College-level private lessons required for music majors and available to qualified non-majors. End-of-term juried performance mandatory. May be repeated for up to 10 credits. Required: Student Petition.

MUP-171 INDIVIDUAL LESSONS: PIANO, 2 CREDITS

Required: College-level performance ability

Corequisites: MUS-189

OC NCT	MUP-171-01 342277 TBA		Y. MIYAMA			\$260.00	\$26.00	\$450.00		\$736.00
	Required: Student Petition.									
OC NCT	MUP-171-02 342278 TBA		T. STOJANOVIC			\$260.00	\$26.00	\$450.00		\$736.00
	Required: Student Petition.									

MUP-171J INDIVIDUAL LESSONS: JAZZ PIANO, 2 CREDITS

Required: College-level performance ability

OC NCT	MUP-171J-01 342279 TBA		K. POLITZER			\$260.00	\$26.00	\$450.00		\$736.00
	Required: Student Petition.									

MUP-171R INDIVIDUAL LESSONS: ROCK, BLUES, POP PIANO, 2 CREDITS

Required: College-level performance ability

OC NCT	MUP-171R-01 342280 TBA		D. FLECHNER			\$260.00	\$26.00	\$450.00		\$736.00
	Required: Student Petition.									
OC	MUP-171R-02 347632 TBA		K. HOLLINGSWORTH			\$260.00	\$26.00	\$450.00		\$736.00
	Required: Student Petition.									

MUP-172 INDIVIDUAL LESSONS: ORGAN, 2 CREDITS

Required: College-level performance ability

Corequisites: MUS-189

OC NCT	MUP-172-01 342282 TBA		J. HOLLAND			\$260.00	\$26.00	\$450.00		\$736.00
	Required: Student Petition.									

MUP-174 INDIVIDUAL LESSONS: VOICE, 2 CREDITS

Required: College-level performance ability

Corequisites: MUS-189

OC NCT	MUP-174-01 342284 TBA		J. ISRAELS			\$260.00	\$26.00	\$450.00		\$736.00
	Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. New students attend in Room N114 on 1/5 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.									

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50 For information about Clackamas Community College, call 503-594-6000

Course Listing

2026/WI

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
OC NCT	MUP-174-02 342286 TBA B. MICHAEL Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. New students attend in Room N114 on 1/5 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					\$260.00	\$26.00	\$450.00		\$736.00
MUP-174J INDIVIDUAL LESSONS: JAZZ VOICE, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189										
OC NCT	MUP-174J-01 342287 TBA J. ISRAELS Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. New students attend in Room N114 on 1/5 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					\$260.00	\$26.00	\$450.00		\$736.00
OC NCT	MUP-174J-02 342289 TBA B. MICHAEL Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. New students attend in Room N114 on 1/5 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					\$260.00	\$26.00	\$450.00		\$736.00
MUP-174R INDIVIDUAL LESSONS: ROCK, BLUES, POP VOICE, 2 CREDITS Required: College-level performance ability										
OC NCT	MUP-174R-01 342290 TBA J. ISRAELS Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. New students attend in Room N114 on 1/5 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					\$260.00	\$26.00	\$450.00		\$736.00
OC NCT	MUP-174R-02 342292 TBA B. MICHAEL Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. New students attend in Room N114 on 1/5 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					\$260.00	\$26.00	\$450.00		\$736.00
MUP-175 INDIVIDUAL LESSONS: VIOLIN, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189										
OC NCT	MUP-175-01 342293 TBA D. D'AIGLE Required: Student Petition.					\$260.00	\$26.00	\$450.00		\$736.00
MUP-176 INDIVIDUAL LESSONS: VIOLA, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189										
OC NCT	MUP-176-01 342295 TBA H. OSEAS Required: Student Petition.					\$260.00	\$26.00	\$450.00		\$736.00
MUP-177 INDIVIDUAL LESSONS: CELLO, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189										
OC NCT	MUP-177-01 342297 TBA C. AVERILL Required: Student Petition.					\$260.00	\$26.00	\$450.00		\$736.00
MUP-178 INDIVIDUAL LESSONS: BASS, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189										
OC NCT	MUP-178-01 342299 TBA K. DEITZ Required: Student Petition.					\$260.00	\$26.00	\$450.00		\$736.00
MUP-178J INDIVIDUAL LESSONS: JAZZ BASS, 2 CREDITS Required: College-level performance ability										
OC NCT	MUP-178J-01 342300 TBA K. DEITZ Required: Student Petition.					\$260.00	\$26.00	\$450.00		\$736.00
OC NCT	MUP-178J-02 342302 TBA B. LEE Required: Student Petition.					\$260.00	\$26.00	\$450.00		\$736.00
MUP-178R INDIVIDUAL LESSONS: ROCK, BLUES, POP BASS, 2 CREDITS Required: College-level performance ability										
OC NCT	MUP-178R-01 342304 TBA K. DEITZ Required: Student Petition.					\$260.00	\$26.00	\$450.00		\$736.00
MUP-179 INDIVIDUAL LESSONS: HARP, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189										
OC NCT	MUP-179-01 342305 TBA TBA Required: Student Petition.					\$260.00	\$26.00	\$450.00		\$736.00
MUP-180 INDIVIDUAL LESSONS: GUITAR, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189										
OC NCT	MUP-180-01 342307 TBA D. TUTMARK Required: Student Petition.					\$260.00	\$26.00	\$450.00		\$736.00
MUP-180J INDIVIDUAL LESSONS: JAZZ GUITAR, 2 CREDITS Required: College-level performance ability										
OC NCT	MUP-180J-01 342309 TBA J. RADSLIFF Required: Student Petition.					\$260.00	\$26.00	\$450.00		\$736.00
MUP-180R INDIVIDUAL LESSONS: ROCK, BLUES, POP GUITAR, 2 CREDITS Required: College-level performance ability										
OC NCT	MUP-180R-01 342311 TBA A. CSIKOS Required: Student Petition.					\$260.00	\$26.00	\$450.00		\$736.00
MUP-181 INDIVIDUAL LESSONS: FLUTE, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189										
OC NCT	MUP-181-01 342312 TBA S. TIEDEMANN Required: Student Petition.					\$260.00	\$26.00	\$450.00		\$736.00

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51 For information about Clackamas Community College, call 503-594-6000

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		Instructor										Instructor							
MUP-181J	INDIVIDUAL LESSONS: JAZZ FLUTE, 2 CREDITS									MUP-187	INDIVIDUAL LESSONS: FRENCH HORN, 2 CREDITS								
Required: College-level performance ability										Required: College-level performance ability									
OC NCT	MUP-181J-01 342315 TBA	G. HARRIS			\$260.00	\$26.00	\$450.00		\$736.00	OC NCT	MUP-187-01 342328 TBA	R. OLASON			\$260.00	\$26.00	\$450.00		\$736.00
	Required: Student Petition.										Required: Student Petition.								
MUP-182	INDIVIDUAL LESSONS: OBOE, 2 CREDITS									MUP-188	INDIVIDUAL LESSONS: TROMBONE, 2 CREDITS								
Required: College-level performance ability										Required: College-level performance ability									
Corequisites: MUS-189										Corequisites: MUS-189									
OC NCT	MUP-182-01 342316 TBA	C. LEE			\$260.00	\$26.00	\$450.00		\$736.00	OC NCT	MUP-188-01 342329 TBA	L. CAMPBELL			\$260.00	\$26.00	\$450.00		\$736.00
	Required: Student Petition.										Required: Student Petition.								
MUP-183	INDIVIDUAL LESSONS: CLARINET, 2 CREDITS									OC NCT	MUP-188-02 342330 TBA	C. RENEAU			\$260.00	\$26.00	\$450.00		\$736.00
Required: College-level performance ability											Required: Student Petition.								
Corequisites: MUS-189										MUP-188J	INDIVIDUAL LESSONS: JAZZ TROMBONE, 2 CREDITS								
OC NCT	MUP-183-01 342318 TBA	L. DE MARTINO			\$260.00	\$26.00	\$450.00		\$736.00	Required: College-level performance ability									
	Required: Student Petition.									OC NCT	MUP-188J-01 342331 TBA	L. CAMPBELL			\$260.00	\$26.00	\$450.00		\$736.00
MUP-183J	INDIVIDUAL LESSONS: JAZZ CLARINET, 2 CREDITS										Required: Student Petition.								
Required: College-level performance ability										MUP-189	INDIVIDUAL LESSONS: EUPHONIUM, 2 CREDITS								
OC NCT	MUP-183J-01 342320 TBA	TBA			\$260.00	\$26.00	\$450.00		\$736.00	Required: College-level performance ability									
	Required: Student Petition.									Corequisites: MUS-189									
MUP-184	INDIVIDUAL LESSONS: SAXOPHONE, 2 CREDITS									OC NCT	MUP-189-01 342332 TBA	TBA			\$260.00	\$26.00	\$450.00		\$736.00
Required: College-level performance ability											Required: Student Petition.								
Corequisites: MUS-189										MUP-190	INDIVIDUAL LESSONS: TUBA, 2 CREDITS								
OC NCT	MUP-184-01 342321 TBA	G. HARRIS			\$260.00	\$26.00	\$450.00		\$736.00	Required: College-level performance ability									
	Required: Student Petition.									Corequisites: MUS-189									
MUP-184J	INDIVIDUAL LESSONS: JAZZ SAXOPHONE, 2 CREDITS									OC NCT	MUP-190-01 342334 TBA	TBA			\$260.00	\$26.00	\$450.00		\$736.00
Required: College-level performance ability											Required: Student Petition.								
OC NCT	MUP-184J-01 342323 TBA	G. HARRIS			\$260.00	\$26.00	\$450.00		\$736.00	MUP-191	INDIVIDUAL LESSONS: PERCUSSION, 2 CREDITS								
	Required: Student Petition.									Required: College-level performance ability									
MUP-185	INDIVIDUAL LESSONS: BASSOON, 2 CREDITS									Corequisites: MUS-189									
Required: College-level performance ability										OC NCT	MUP-191-01 342335 TBA	B. GARDINER			\$260.00	\$26.00	\$450.00		\$736.00
Corequisites: MUS-189											Required: Student Petition.								
OC NCT	MUP-185-01 342324 TBA	N. BUETTI			\$260.00	\$26.00	\$450.00		\$736.00	MUP-191J	INDIVIDUAL LESSONS: JAZZ PERCUSSION, 2 CREDITS								
	Required: Student Petition.									Required: College-level performance ability									
MUP-186	INDIVIDUAL LESSONS: TRUMPET, 2 CREDITS									OC NCT	MUP-191J-01 342337 TBA	C. DOGGETT			\$260.00	\$26.00	\$450.00		\$736.00
Required: College-level performance ability											Required: Student Petition.								
Corequisites: MUS-189										MUP-191R	INDIVIDUAL LESSONS: ROCK, BLUES, POP DRUMSET, 2 CREDITS								
OC NCT	MUP-186-01 342325 TBA	J. KLAUSE			\$260.00	\$26.00	\$450.00		\$736.00	Required: College-level performance ability									
	Required: Student Petition.									OC NCT	MUP-191R-01 342340 TBA	C. DOGGETT			\$260.00	\$26.00	\$450.00		\$736.00
MUP-186J	INDIVIDUAL LESSONS: JAZZ TRUMPET, 2 CREDITS										Required: Student Petition.								
Required: College-level performance ability										MUP-192T	INDIVIDUAL LESSONS: AUDIO TECH, 2 CREDITS								
OC NCT	MUP-186J-01 342326 TBA	Q. WALKER			\$260.00	\$26.00	\$450.00		\$736.00	Required: College-level performance ability									
	Required: Student Petition.																		

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OC NCT	MUP-192T-01 342341 TBA M. BAIRD Required: Student Petition. Electronic Music Lessons.					\$260.00	\$26.00	\$450.00		\$736.00
OC NCT	MUP-192T-02 342342 TBA D. BADSTUBNER Required: Student Petition. Audio Recording Lessons.					\$260.00	\$26.00	\$450.00		\$736.00
OC NCT	MUP-192T-03 342344 TBA R. SOMMERS Required: Student Petition. Live Sound Lessons.					\$260.00	\$26.00	\$450.00		\$736.00
OC NCT	MUP-274J-02 342376 TBA B. MICHAEL					\$260.00	\$26.00	\$450.00		\$736.00
	MUP-274R INDIVIDUAL LESSONS: ROCK, BLUES, POP VOICE, 2 CREDITS Prerequisites: MUP-174R (6 credits) Required: Sophomore-level performance ability									
OC NCT	MUP-274R-01 342378 TBA J. ISRAELS					\$260.00	\$26.00	\$450.00		\$736.00
OC NCT	MUP-274R-02 342379 TBA B. MICHAEL					\$260.00	\$26.00	\$450.00		\$736.00
	MUP-275 INDIVIDUAL LESSONS: VIOLIN, 2 CREDITS Prerequisites: MUP-175 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability									
OC NCT	MUP-275-01 342381 TBA D. D'AIGLE					\$260.00	\$26.00	\$450.00		\$736.00
	MUP-276 INDIVIDUAL LESSONS: VIOLA, 2 CREDITS Prerequisites: MUP-176 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability									
OC NCT	MUP-276-01 342382 TBA H. OSEAS					\$260.00	\$26.00	\$450.00		\$736.00
	MUP-277 INDIVIDUAL LESSONS: CELLO, 2 CREDITS Prerequisites: MUP-177 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability									
OC NCT	MUP-277-01 342383 TBA C. AVERILL					\$260.00	\$26.00	\$450.00		\$736.00
	MUP-278 INDIVIDUAL LESSONS: BASS, 2 CREDITS Prerequisites: MUP-178 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability									
OC NCT	MUP-278-01 342385 TBA K. DEITZ					\$260.00	\$26.00	\$450.00		\$736.00
	MUP-278J INDIVIDUAL LESSONS: JAZZ BASS, 2 CREDITS Prerequisites: MUP-178J (6 credits) Required: Sophomore-level performance ability									
OC NCT	MUP-278J-01 342388 TBA K. DEITZ					\$260.00	\$26.00	\$450.00		\$736.00
OC NCT	MUP-278J-02 342390 TBA TBA					\$260.00	\$26.00	\$450.00		\$736.00
	MUP-278R INDIVIDUAL LESSONS: ROCK, BLUES, POP BASS, 2 CREDITS Prerequisites: MUP-178R (6 credits) Required: Sophomore-level performance ability									
OC NCT	MUP-278R-01 342391 TBA K. DEITZ					\$260.00	\$26.00	\$450.00		\$736.00
	MUP-279 INDIVIDUAL LESSONS: HARP, 2 CREDITS Prerequisites: MUP-179 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability									

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Course Listing

2026/WI

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OC NCT	MUP-279-01 TBA	342393	TBA			\$260.00	\$26.00	\$450.00		\$736.00
MUP-280 INDIVIDUAL LESSONS: GUITAR, 2 CREDITS Prerequisites: MUP-180 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC NCT	MUP-280-01 TBA	342394	D. TUTMARK			\$260.00	\$26.00	\$450.00		\$736.00
MUP-280J INDIVIDUAL LESSONS: JAZZ GUITAR, 2 CREDITS Prerequisites: MUP-180J (6 credits) Required: Sophomore-level performance ability										
OC NCT	MUP-280J-01 TBA	342396	J. RADSLIFF			\$260.00	\$26.00	\$450.00		\$736.00
MUP-280R INDIVIDUAL LESSONS: ROCK, BLUES, POP GUITAR, 2 CREDITS Prerequisites: MUP-180R (6 credits) Required: Sophomore-level performance ability										
OC NCT	MUP-280R-01 TBA	342397	A. CSIKOS			\$260.00	\$26.00	\$450.00		\$736.00
MUP-281 INDIVIDUAL LESSONS: FLUTE, 2 CREDITS Prerequisites: MUP-181 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC NCT	MUP-281-01 TBA	342399	S. TIEDEMANN			\$260.00	\$26.00	\$450.00		\$736.00
MUP-281J INDIVIDUAL LESSONS: JAZZ FLUTE, 2 CREDITS Prerequisites: MUP-181J (6 credits) Required: Sophomore-level performance ability										
OC NCT	MUP-281J-01 TBA	342402	G. HARRIS			\$260.00	\$26.00	\$450.00		\$736.00
MUP-282 INDIVIDUAL LESSONS: OBOE, 2 CREDITS Prerequisites: MUP-182 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC NCT	MUP-282-01 TBA	342404	C. LEE			\$260.00	\$26.00	\$450.00		\$736.00
MUP-283 INDIVIDUAL LESSONS: CLARINET, 2 CREDITS Prerequisites: MUP-183 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC NCT	MUP-283-01 TBA	342406	L. DE MARTINO			\$260.00	\$26.00	\$450.00		\$736.00
MUP-283J INDIVIDUAL LESSONS: JAZZ CLARINET, 2 CREDITS Prerequisites: MUP-183J (6 credits) Required: Sophomore-level performance ability										
OC NCT	MUP-283J-01 TBA	342408	TBA			\$260.00	\$26.00	\$450.00		\$736.00
MUP-284 INDIVIDUAL LESSONS: SAXOPHONE, 2 CREDITS Prerequisites: MUP-184 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC NCT	MUP-284-01 TBA	342410	G. HARRIS			\$260.00	\$26.00	\$450.00		\$736.00
MUP-284J INDIVIDUAL LESSONS: JAZZ SAXOPHONE, 2 CREDITS Prerequisites: MUP-184J (6 credits) Required: Sophomore-level performance ability										
OC NCT	MUP-284J-01 TBA	342412	G. HARRIS			\$260.00	\$26.00	\$450.00		\$736.00
MUP-285 INDIVIDUAL LESSONS: BASSOON, 2 CREDITS Prerequisites: MUP-185 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC NCT	MUP-285-01 TBA	342413	N. BUETTI			\$260.00	\$26.00	\$450.00		\$736.00
MUP-286 INDIVIDUAL LESSONS: TRUMPET, 2 CREDITS Prerequisites: MUP-186 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC NCT	MUP-286-01 TBA	342414	J. KLAUSE			\$260.00	\$26.00	\$450.00		\$736.00
MUP-286J INDIVIDUAL LESSONS: JAZZ TRUMPET, 2 CREDITS Prerequisites: MUP-186J (6 credits) Required: Sophomore-level performance ability										
OC NCT	MUP-286J-01 TBA	342415	Q. WALKER			\$260.00	\$26.00	\$450.00		\$736.00
MUP-287 INDIVIDUAL LESSONS: FRENCH HORN, 2 CREDITS Prerequisites: MUP-187 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC NCT	MUP-287-01 TBA	342416	R. OLASON			\$260.00	\$26.00	\$450.00		\$736.00
MUP-288 INDIVIDUAL LESSONS: TROMBONE, 2 CREDITS Prerequisites: MUP-188 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC NCT	MUP-288-01 TBA	342418	L. CAMPBELL			\$260.00	\$26.00	\$450.00		\$736.00
OC NCT	MUP-288-02 TBA	342419	C. RENEAU			\$260.00	\$26.00	\$450.00		\$736.00
MUP-288J INDIVIDUAL LESSONS: JAZZ TROMBONE, 2 CREDITS Prerequisites: MUP-188J (6 credits) Required: Sophomore-level performance ability										
OC NCT	MUP-288J-01 TBA	342420	L. CAMPBELL			\$260.00	\$26.00	\$450.00		\$736.00
MUP-289 INDIVIDUAL LESSONS: EUPHONIUM, 2 CREDITS Prerequisites: MUP-189 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC NCT	MUP-289-01 TBA	342422	TBA			\$260.00	\$26.00	\$450.00		\$736.00
MUP-290 INDIVIDUAL LESSONS: TUBA, 2 CREDITS										

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Prerequisites: MUP-190 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC NCT	MUP-290-01	342423	TBA			\$260.00	\$26.00	\$450.00		\$736.00
	TBA									
MUP-291 INDIVIDUAL LESSONS: PERCUSSION, 2 CREDITS Prerequisites: MUP-191 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC NCT	MUP-291-01	342426	TBA			\$260.00	\$26.00	\$450.00		\$736.00
	B. GARDINER									
MUP-291J INDIVIDUAL LESSONS: JAZZ PERCUSSION, 2 CREDITS Prerequisites: MUP-191J (6 credits) Required: Sophomore-level performance ability										
OC NCT	MUP-291J-01	342428	TBA			\$260.00	\$26.00	\$450.00		\$736.00
	C. DOGETT									
MUP-291R INDIVIDUAL LESSONS: ROCK, BLUES, POP DRUMSET, 2 CREDITS Prerequisites: MUP-191R (6 credits) Required: Sophomore-level performance ability										
OC NCT	MUP-291R-01	342431	TBA			\$260.00	\$26.00	\$450.00		\$736.00
	C. DOGETT									
MUP-292T INDIVIDUAL LESSONS: AUDIO TECH, 2 CREDITS Prerequisites: MUP-192T (6 credits) Required: Sophomore-level performance ability										
OC NCT	MUP-292T-01	342433	TBA			\$260.00	\$26.00	\$450.00		\$736.00
	M. BAIRD									
	Electronic Music Lessons.									
OC NCT	MUP-292T-02	342435	TBA			\$260.00	\$26.00	\$450.00		\$736.00
	D. BADSTUBNER									
	Audio Recording Lessons.									
OC NCT	MUP-292T-03	342437	TBA			\$260.00	\$26.00	\$450.00		\$736.00
	R. SOMMERS									
	Live Sound Lessons.									

Nursing

The Nursing program at Clackamas Community College is a full partner in the Oregon Consortium for Nursing Education (OCNE). The curriculum in OCNE nursing programs is a competency-based curriculum developed in collaboration with Oregon Health & Science University (OHSU) and other community colleges around the state. This curriculum, which has been approved by the Oregon State Board of Education as well as the Oregon State Board of Nursing, can ultimately culminate in a Baccalaureate of Science Degree with a focus in Nursing on the community college campus offered by OHSU.

Admission into the nursing program is by special application only. Acceptance to the nursing program allows for co-enrollment to Clackamas Community College and Oregon Health & Science University, School of Nursing.

The Nursing Assistant course, while not required to enter the Nursing program, provides a strong foundation regarding the delivery of care to clients in various settings.

NRS-112 FOUNDATIONS OF NURSING IN ACUTE CARE I, 3 CREDITS

This course introduces the learner to assessment and common interventions (including relevant technical procedures) for care of patients across the lifespan who require acute care, including normal childbirth. Disease/illness trajectories and their translation into clinical practice guidelines and/or standard procedures are considered in relation to their impact on providing culturally sensitive, patient-centered care. Includes classroom and clinical learning experiences.

Required: Acceptance into the CCC nursing program

Prerequisites: NRS-110, NRS-110C, and NRS-230

Corequisites: NRS-112C, NRS-231, and NRS-232

HAR	NRS-112-01	347548	M			\$390.00	\$39.00	\$300.00		\$729.00
	C. BURT									

NRS-112C FOUNDATIONS OF NURSING IN ACUTE CARE I CLINICAL, 3 CREDITS

This course introduces the learner to assessment and common interventions (including relevant technical procedures) for care of patients across the lifespan who require acute care, including natural childbirth. Disease/illness trajectories and their translation into clinical practice guidelines and/or standard procedures are considered in relation to their impact on providing culturally sensitive, client-centered care. Includes classroom and clinical learning experiences.

Required: Acceptance into the CCC nursing program

Prerequisites: NRS-110, NRS-110C, and NRS-230

Corequisites: NRS-112, NRS-231, and NRS-232

HAR	NRS-112C-01	347549	T						9-10:50 AM	
			W						10-1:50 PM	
	T. VANDERWERF					\$390.00	\$39.00	\$450.00		\$879.00
HAR	NRS-112C-02	347550	T						11-12:50 PM	
			TH						10-1:50 PM	
	T. VANDERWERF					\$390.00	\$39.00	\$450.00		\$879.00
HAR	NRS-112C-03	347551	T						1:30 -3:20 PM	
			F						11-2:20 PM	
	T. VANDERWERF					\$390.00	\$39.00	\$450.00		\$879.00

NRS-221 CHRONIC ILLNESS II AND END OF LIFE, 4 CREDITS

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Instructor			Tuition	Fee	Crs. Fee		Instructor			Tuition	Fee	Crs. Fee	
This course builds on NRS-111 and expands the student's knowledge related to family care giving, symptom management and end of life concepts. These concepts are a major focus and basis for nursing interventions with patients and families. Ethical issues related to advocacy, self-determination, and autonomy are explored. Complex skills associated with the assessment and management of concurrent illnesses and conditions are developed within the context of patient and family preferences and needs. Skills related to enhancing communication and collaboration as a member of an interprofessional team and across health care settings are further explored. Exemplars include patients with chronic mental illness and addictions as well as other chronic conditions and disabilities affecting functional status and family relationships. The course includes classroom and clinical learning experiences. Required: Acceptance into the CCC nursing program Corequisites: NRS-221C Prerequisites: NRS-222 and NRS-222C													
HAR	NRS-221-01	342532	M			8:30 -10:20 AM							
			M			11-12:50 PM							
	A. DROUIN			\$520.00	\$52.00	\$298.00							\$870.00
	K. KABAT												
	K. RICHARDS												
NRS-221C CHRONIC ILLNESS II AND END OF LIFE CLINICAL, 5 CREDITS This course builds on NRS-111 and expands the student's knowledge related to family care giving, symptom management and end of life concepts. These concepts are a major focus and basis for nursing interventions with patients and families. Ethical issues related to advocacy, self determination, and autonomy are explored. Complex skills associated with the assessment and management of concurrent illnesses and conditions are developed within the context of patient and family preferences and needs. Skills related to enhancing communication and collaboration as a member of an interdisciplinary team are further explored. Exemplars include patients with chronic mental illness and addictions as well as other chronic conditions and disabilities affecting functional status and family relationships. The course includes classroom and clinical learning experiences. Required: Acceptance into the CCC nursing program Corequisites: NRS-221 Prerequisites: NRS-222 and NRS-222C													
HAR	NRS-221C-01	342533	TBA										
	A. DROUIN			\$650.00	\$65.00	\$378.00							\$1,093.00
	K. KABAT												
	K. RICHARDS												
HAR	NRS-221C-02	342534	TBA										
	A. DROUIN			\$650.00	\$65.00	\$378.00							\$1,093.00
	K. KABAT												
	K. RICHARDS												
HAR	NRS-221C-03	342535	TBA										
	A. DROUIN			\$650.00	\$65.00	\$378.00							\$1,093.00
	K. KABAT												
	K. RICHARDS												
HAR	NRS-221C-04	342536	TBA										
	A. DROUIN			\$650.00	\$65.00	\$378.00							\$1,093.00
	K. KABAT												
	K. RICHARDS												
HAR	NRS-221C-05	342537	TBA										
	A. DROUIN			\$650.00	\$65.00	\$378.00							\$1,093.00
	K. KABAT												
	K. RICHARDS												
NRS-231 CLINICAL PHARMACOLOGY II, 3 CREDITS													

Course No		Course Title, Credits			
Section No		Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
Instructor			Tuition	Fee	
This sequel to NRS-230 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 NRS-230. Required: Acceptance into the CCC nursing program Prerequisites: NRS-110, NRS-110C, and NRS-230 Corequisites: NRS-111, NRS-111C, and NRS-232					
HAR HYB	NRS-231-01	342538	F		8:30 -10:20 AM
	K. RICHARDS		\$390.00	\$39.00	\$90.00
					\$519.00
NRS-232 PATHOPHYSIOLOGICAL PROCESSES I, 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, as well as additional pathophysiological processes. Students will learn to make selective clinical decisions in the context of nursing regarding using current, reliable sources of pathophysiology information, selecting and interpreting focused nursing assessments based on knowledge of pathophysiological processes, teaching persons from diverse populations regarding pathophysiological processes, and communicating with other health professionals regarding pathophysiological processes. Required: Acceptance into the CCC nursing program Prerequisites: NRS-110, NRS-110C, and NRS-230 Corequisites: NRS-111, NRS-111C, and NRS-231					
HAR HYB	NRS-232-01	342539	M		12:30 -2:20 PM
	A. DROUIN		\$390.00	\$39.00	\$170.00
					\$599.00
NUR-100 NURSING ASSISTANT I, 6.5 CREDITS This course provides the student with the skills to perform basic level nursing care. Certified Nursing Assistants are defined by law as people who assist licensed nursing personnel in the provision of nursing care. Prepares the student to perform routine nursing assistant tasks to clients in sub-acute care settings as well as in the community. Includes didactic and skills lab instruction. Major topics covered include: collaboration with health care team, communication & interpersonal skills, person-centered care, infection control and prevention, safety and emergency procedures, assisting with activities of daily living, mental health and social service needs of clients, technical skills, acquiring observation and reporting skills, documentation of care provided and end-of-life care. Upon successful completion of this course, students may apply for the Oregon State Board of Nursing certification exam for nursing assistants (CNA 1). This course is approved by the Oregon State Board of Nursing. Required: Student Petition. Required: Must be at least 18 years of age; High School Diploma or equivalent; Must be formally accepted by Health Sciences Admissions and attend a mandatory orientation session. During the orientation, students will start the process for completing all non-academic requirements. Non-academic requirements include: Immunizations (MMR, Varicella, Tdap, Hep B, COVID-19, seasonal Flu); complete a Criminal Background Check; Drug Screen; Tuberculosis test; BLS/CPR for Healthcare Providers certification through American Heart Association (AHA) Corequisites: NUR-100C					

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HAR HYB	NUR-100-01 342540 TW M. BAKER S. ELLSBERG Required: Student Petition. Information session details will be posted to the nursing assistant website. Please see website for application & orientation information.					\$845.00	\$84.50	8-12:30 PM	\$350.00	\$1,279.50
HAR HYB	NUR-100-02 342541 TW M. BAKER S. ELLSBERG J. LAFRANCE Required: Student Petition. Information session details will be posted to the nursing assistant website. Please see website for application & orientation information.					\$845.00	\$84.50	1-5:30 PM	\$350.00	\$1,279.50

NUR-100C NURSING ASSISTANT I CLINICAL, 0 CREDIT

Prepares the student to perform routine nursing assistant tasks to clients in hospitals, long-term and skilled care facilities, as well as the community. Includes clinical practicum. Required: Student Petition.

Corequisites: NUR-100

HAR	NUR-100C-01 342543 TWTH M. BAKER Required: Student Petition.					\$0.00	\$0.00		\$0.00	\$0.00
HAR	NUR-100C-02 342544 TWTH J. LAFRANCE Required: Student Petition.					\$0.00	\$0.00		\$0.00	\$0.00
HAR	NUR-100C-03 342546 TWTH TBA Required: Student Petition.					\$0.00	\$0.00		\$0.00	\$0.00

Philosophy**PHL-101 PHILOSOPHICAL PROBLEMS, 4 CREDITS**

Introduces basic philosophical questions such as: What is reality? What is knowledge? What is truth? Can humans freely choose? What is human awareness? What is a meaningful life?

Recommended Prerequisites: WRD-098 or placement in WR-121Z

OC NCT	PHL-101-01 343339 TTH K. SEVERSON					\$520.00	\$52.00	1-2:50 PM	\$0.00	\$572.00
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PHL-102 ETHICS, 4 CREDITS

Introduces the study of morality with concepts of good, harm, habits, character, perception, behavior and action. Also considers the different theories of human capacity for responsibility.

Recommended Prerequisites: WRD-098 or placement in WR-121Z

OC HYB NCT	PHL-102-01 343351 W M. BAILEY					\$520.00	\$52.00	1-2:50 PM	\$0.00	\$572.00
ONL NCT	PHL-102-02 343345 M. BAILEY					\$520.00	\$52.00		\$0.00	\$572.00

PHL-103 CRITICAL REASONING, 4 CREDITS

Helps students identify and understand the process by which they themselves and others arrive at conclusions; improves their critical reasoning skills; introduces basic logical concepts of argument; and gives opportunity for students to apply course skills to relevant matters.

Recommended Prerequisites: WRD-098 or placement in WR-121Z

ONL LCT	PHL-103-01 343352 K. HADDIX					\$520.00	\$52.00		\$0.00	\$572.00
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Phlebotomy

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
PHB-125 PROFESSIONALISM IN HEALTHCARE, 1 CREDIT	This course is designed to support the transition from practicum to employment by exploring nationally recognized credentialing options, summarizing essential skills related to phlebotomy, and finalizing professional portfolio for employment. Required: Acceptance into the Phlebotomy program Prerequisites: PHB-110, PHB-112, and PHB-115 Corequisites: PHB-130									
ONL	PHB-125-01 342547 E. ZUNIGA					\$130.00	\$13.00		\$100.00	\$243.00

PHB-130 PHLEBOTOMY PRACTICUM, 5 CREDITS

Provide hands-on experience in a supervised and accredited laboratory or clinical environment, providing the opportunity for students to apply practical skills and knowledge learned in previous courses and gain professional experience in a healthcare environment.

Required: Acceptance into the Phlebotomy program. Compliance with the Oregon Health Authority rules for students. Vaccination records for Tdap, MMR, Varicella, Hep B, COVID-19. Completed criminal background check, drug screen, and BLS CPR card through the American Heart Association

Prerequisites: PHB-110, PHB-112, and PHB-115

Corequisites: PHB-125

HAR	PHB-130-01 342548 TBA J. ALLISON E. ZUNIGA					\$650.00	\$65.00		\$135.00	\$850.00
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Physical Education**PE-185 PHYSICAL ACTIVITY CLASSES, 1 CREDIT**

Recommended: Current physical examination before enrolling

BASEBALL CONDITIONING I, 1 CREDIT										
OC NCT	PE-185-008 347621 MWF J. HOPPEL					\$130.00	\$13.00	8-8:50 AM	\$30.00	\$173.00
Required: Student Petition.										
CROSS TRAINING II, 1 CREDIT										
ONL NCT	PE-185-051 343302 B. STAMME					\$130.00	\$13.00		\$30.00	\$173.00
CROSS TRAINING II, 1 CREDIT										
ONL NCT	PE-185-053 347618 TBA					\$130.00	\$13.00		\$30.00	\$173.00
Required: Student Petition.										
CROSS TRAINING II, 1 CREDIT										
ONL NCT	PE-185-050 347620 B. STAMME					\$130.00	\$13.00		\$30.00	\$173.00
SOFTBALL CONDITIONING I, 1 CREDIT										
OC NCT	PE-185-088 347617 TTH J. BUEL					\$130.00	\$13.00	7:30 -8:50 AM	\$30.00	\$173.00
Required: Student Petition.										
TRACK CONDITIONING I, 1 CREDIT										
OC NCT	PE-185-105 347615 MWF K. MCHONE					\$130.00	\$13.00	2:30 -5:20 PM	\$30.00	\$173.00
Required: Student Petition.										
VOLLEYBALL, POWER I, 1 CREDIT										
OC NCT	PE-185-030 347619 T A. ITAMI					\$130.00	\$13.00	6:30 -9:20 PM	\$30.00	\$173.00
Required: Student Petition.										

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ONL NCT	WALK, JOG, FITNESS II, 1 CREDIT PE-185-002 343295 K. MCHONE					\$130.00	\$13.00	\$30.00		\$173.00
ONL NCT	WEIGHT TRAINING II, 1 CREDIT PE-185-064 343310 B. STAMME					\$130.00	\$13.00	\$30.00		\$173.00
OC NCT	WEIGHT TRAINING II, 1 CREDIT PE-185-063 343308 TTH B. STAMME J. STEINKE					\$130.00	\$13.00	\$30.00	10-11:20 AM	\$173.00
ONL NCT	YOGA II, 1 CREDIT PE-185-001 343293 E. HANCOCK					\$130.00	\$13.00	\$30.00		\$173.00
PE-194	PROFESSIONAL ACTIVITIES, 1 CREDIT Team skills and strategy courses. Designed to provide the student with basic skills and methodology necessary to conduct physical fitness programs in the school, corporate, and community setting. Emphasis is placed on fitness concepts, techniques of weight training and aerobic exercises to encourage life-long physical activity. Course offerings are: baseball, basketball, cross-country, soccer, softball, track and field, volleyball, and wrestling. Required: Student Petition.									
OC NCT	BASKETBALL SKILLS & STRATEGIES, 1 CREDIT PE-194-02 347613 MWF B. STAMME					\$130.00	\$13.00	\$30.00	12-12:50 PM	\$173.00
	Required: Student Petition.									
OC NCT	BASKETBALL SKILLS & STRATEGIES, 1 CREDIT PE-194-03 347614 MWF K. GUELSDORF					\$130.00	\$13.00	\$30.00	3-3:50 PM	\$173.00
	Required: Student Petition.									
PE-240	STRENGTH & CONDITIONING THEORY & TECHNIQUES, 3 CREDITS An overview of introductory exercise physiology, biomechanics, program design, and exercise techniques that prepares students to design and implement physical training programs and exercise for clients and athletes.									
OC HYB NCT	PE-240-01 343319 W K. MCHONE					\$390.00	\$39.00	\$0.00	11-11:50 AM	\$429.00
PE-270	SPORT AND EXERCISE PSYCHOLOGY, 3 CREDITS The course is designed to provide students with the basic understanding and knowledge of psychological skills used to improve physical performance in themselves, peers, teammates, and athletes they coach. The course would be well-suited for athletes, coaches, or exercise leaders.									
ONL NCT	PE-270-01 343321 K. MCHONE					\$390.00	\$39.00	\$0.00		\$429.00
PE-280	PHYSICAL EDUCATION/CWE, 2-6 CREDITS Cooperative work experience. Provides students with on-the-job experience and training related to the Physical Education field. Covers job problems and procedures, evaluation of students' job performance by qualified college staff and site supervision. May be repeated for up to 12 credits. Required: Student Petition. Corequisites: CWE-281									

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
ONL NCT	PE-280-01 343322 T. NELSON					\$780.00	\$78.00	\$45.00		\$903.00V
	Required: Student Petition. Review the registration process and complete the online application to the program at http://www.clackamas.edu/CWE-Students.aspx prior to registering. Corequisite: Take the following CWE-281-06.									
Physics										
PH-121	ASTRONOMY, 4 CREDITS A lab course including the history of astronomy, the Earth and moon, all planets in our solar system, along with asteroids, meteors and comets. Prerequisites: MTH-065 or MTH-098 with a C or better or placement in MTH-095 Corequisites: PH-121L Prerequisites: WRD-090 or placement in WRD-098									
ONL LCT	PH-121-40 343329 C. SHARON					\$520.00	\$52.00	\$25.00		\$597.00
	Lab included.									
PH-121L	ASTRONOMY LAB, 0 CREDIT Lab course for PH-121L Corequisites: PH-121									
ONL	PH-121L-40 343332 C. SHARON					\$0.00	\$0.00	\$0.00		\$0.00
PH-122	GENERAL ASTRONOMY, 4 CREDITS A lab course including the properties of our sun, other stars and stellar evolution. Prerequisites: PH-121 or GS-107 Corequisites: PH-122L									
ONL	PH-122-40 343333 C. SHARON					\$520.00	\$52.00	\$20.00		\$592.00
PH-122L	GENERAL ASTRONOMY LAB, 0 CREDIT Lab course for PH-122 Corequisites: PH-122									
ONL	PH-122L-40 343334 C. SHARON					\$0.00	\$0.00	\$0.00		\$0.00
PH-202	GENERAL PHYSICS, 5 CREDITS A lab course covering electricity, magnetism, DC and AC circuits, and electromagnetic radiation. Prerequisites: PH-201 Corequisites: PH-202L and PH-202S									
OC	PH-202-01 343336 MW E. ALHATMI					\$650.00	\$65.00	\$50.00	11-12:20 PM	\$765.00
PH-202L	GENERAL PHYSICS LAB, 0 CREDIT Lab course for PH-202 Corequisites: PH-202 and PH-202S									
OC	PH-202L-01 343337 T E. ALHATMI					\$0.00	\$0.00	\$0.00	9-11:50 AM	\$0.00
OC	PH-202L-02 347580 T E. ALHATMI					\$0.00	\$0.00	\$0.00	1-3:50 PM	\$0.00
	Corequisite: Take 2 of the following PH-202-01, PH-202S-01.									
OC	PH-202L-03 343340 TH G. BOSTROM					\$0.00	\$0.00	\$0.00	1-3:50 PM	\$0.00

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2026/WI

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	Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Total
OC	PH-202L-04 G. BOSTROM	343341 F		\$0.00	\$0.00	\$0.00

PH-202S GENERAL PHYSICS SEMINAR, 0 CREDIT

Seminar course for PH-202

Corequisites: PH-202 and PH-202L

OC	PH-202S-01 E. ALHATMI	343342 MW		\$0.00	\$0.00	\$0.00
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PH-212 GENERAL PHYSICS WITH CALCULUS, 5 CREDITS

A lab course covering electricity, magnetism, DC and AC circuits, and electromagnetic radiation.

Prerequisites: MTH-252Z and PH-211

Corequisites: PH-212L and PH-212S

Recommended Prerequisites: MTH-254

OC	PH-212-01 G. BOSTROM	343343 MW		\$650.00	\$65.00	\$715.00
	Corequisite: Take 2 of the following PH-212L-01, PH-212L-03, PH-212L-04, PH-212S-01, PH-212S-02, PH-212S-03, PH-212L-02.					
OC	PH-212-02 G. BOSTROM	343346 MW		\$650.00	\$65.00	\$715.00
	Corequisite: Take 2 of the following PH-212L-01, PH-212L-03, PH-212L-04, PH-212S-01, PH-212S-02, PH-212S-03, PH-212L-02.					

PH-212L GENERAL PHYSICS WITH CALCULUS LAB, 0 CREDIT

Lab course for PH-212

Corequisites: PH-212 and PH-212S

OC	PH-212L-01 E. ALHATMI	343347 T		\$0.00	\$0.00	\$0.00
	Corequisite: Take 2 of the following PH-212-01, PH-212-02, PH-212S-01, PH-212S-02, PH-212S-03.					
OC	PH-212L-02 E. ALHATMI	347579 T		\$0.00	\$0.00	\$0.00
	Corequisite: Take 2 of the following PH-212-01, PH-212-02, PH-212S-01, PH-212S-02, PH-212S-03.					
OC	PH-212L-03 G. BOSTROM	343348 TH		\$0.00	\$0.00	\$0.00
	Corequisite: Take 2 of the following PH-212-01, PH-212-02, PH-212S-01, PH-212S-02, PH-212S-03.					
OC	PH-212L-04 G. BOSTROM	343349 F		\$0.00	\$0.00	\$0.00
	Corequisite: Take 2 of the following PH-212-01, PH-212-02, PH-212S-01, PH-212S-02, PH-212S-03.					

PH-212S GENERAL PHYSICS WITH CALCULUS SEMINAR, 0 CREDIT

Seminar course for PH-212

Corequisites: PH-212 and PH-212L

OC	PH-212S-01 G. BOSTROM	343350 TH		\$0.00	\$0.00	\$0.00
	Corequisite: Take 2 of the following PH-212-01, PH-212-02, PH-212L-01, PH-212L-03, PH-212L-04.					
OC	PH-212S-02 G. BOSTROM	343353 TH		\$0.00	\$0.00	\$0.00
	Corequisite: Take 2 of the following PH-212-01, PH-212-02, PH-212L-01, PH-212L-03, PH-212L-04.					

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	Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Total
OC	PH-212S-03 G. BOSTROM	343354 F		\$0.00	\$0.00	\$0.00
	Corequisite: Take 2 of the following PH-212-01, PH-212-02, PH-212L-01, PH-212L-03, PH-212L-04.					

Political Science

PS-201 AMERICAN GOVERNMENT AND POLITICS, 4 CREDITS

Examines the founding principles of the American government, as well as the Constitution, the separation of powers, and the three branches of government, political parties and elections, and the role of interest groups and the media in the political process. In addition, assesses the growing power of the executive branch, the expansion and reach of the federal bureaucracy, governmental policies, and the civil liberties and civil rights of American citizens.

Recommended Prerequisites: WRD-090 or placement in WRD-098

ONL NCT	PS-201-01 J. HITE	343359		\$520.00	\$52.00	\$572.00
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PS-280 POLITICAL SCIENCE/CWE, 2-6 CREDITS (VAR)

Cooperative work experience. Provides students with on-the-job work experience in the field of political science. Required: Student Petition.

Corequisites: CWE-281

OC NCT	PS-280-01 J. HITE D. LOUGEE	343360		\$780.00	\$78.00	\$858.00
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

PS-297 INTRODUCTION TO ENVIRONMENTAL POLITICS, 4 CREDITS

Explores and assesses the politics informing environmental policy; the tension between politics, policy and scientific expertise; the role of the legislative, executive, and judicial branches of government in crafting and implementing environmental policy; and the critical impact non-governmental institutions and pressure groups have on environmental policy development and outcomes.

Recommended Prerequisites: WRD-098 or placement in WR-121Z

ONL LCT	PS-297-01 J. HITE	343363		\$520.00	\$52.00	\$572.00
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Psychology

PSY-101 HUMAN RELATIONS, 3 CREDITS

Focuses on developing skills and strategies necessary to build and maintain successful personal and professional relationships. Applies psychological principles to understanding relationships with ourselves and others in social, workplace, and digital contexts. Includes an overview of basic psychology principles in addition to skill development in the following areas: dealing with emotions, interpersonal communication, developing close relationships, resolving conflicts, and managing stress. Includes individual and group activities, lecture, and discussions with an emphasis on student participation.

Recommended Prerequisites: WRD-090 or placement in WRD-098

OC NCT	PSY-101-01 E. SAUBER	343365 TTH		\$390.00	\$39.00	\$429.00
HAR	PSY-101-02 J. VELEZ	343374 MW		\$390.00	\$39.00	\$429.00
ONL NCT	PSY-101-03 M. MALLATT	343373		\$390.00	\$39.00	\$429.00

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ONL NCT	PSY-101-04 343372 M. MALLATT					\$390.00	\$39.00	\$0.00	\$429.00
PSY-201Z INTRODUCTION TO PSYCHOLOGY I, 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. Recommended Prerequisites: WRD-090 or placement in WRD-098									
OC NCT	PSY-201Z-01 343377 TTH J. KISSLER					\$520.00	\$52.00	\$0.00	\$572.00
OC NCT	PSY-201Z-02 343379 TTH J. KISSLER					\$520.00	\$52.00	\$0.00	\$572.00
ONL	PSY-201Z-03 343381 S. TOBIN					\$520.00	\$52.00	\$0.00	\$572.00
PSY-202Z INTRODUCTION TO PSYCHOLOGY II, 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. Recommended Prerequisites: WRD-090 or placement in WRD-098									
OC NCT	PSY-202Z-01 343383 MW I. MANCINELLI-FRANCONI					\$520.00	\$52.00	\$0.00	\$572.00
ONL NCT	PSY-202Z-02 343385 J. KISSLER					\$520.00	\$52.00	\$0.00	\$572.00
PSY-215 INTRODUCTION TO DEVELOPMENTAL PSYCHOLOGY, 4 CREDITS Research and theories regarding the development of the individual from conception to death, including physical, social and cognitive changes. Prerequisite or Corequisite: WRD-098 or placement in WR-121Z Recommended Prerequisite or Corequisite: FYE-101									
HAR	PSY-215-01 343396 MW J. VELEZ					\$520.00	\$52.00	\$0.00	\$572.00
OC HYB	PSY-215-02 347514 T S. KISER					\$520.00	\$52.00	\$0.00	\$572.00
ONL NCT	PSY-215-03 343387 I. MANCINELLI-FRANCONI					\$520.00	\$52.00	\$0.00	\$572.00
ONL NCT	PSY-215-04 343390 T. THOMAS					\$520.00	\$52.00	\$0.00	\$572.00
ONL	PSY-215-05 343392 K. KRASKA					\$520.00	\$52.00	\$87.25	\$659.25
Online textbook included in section fees.									
PSY-219 INTRODUCTION TO PSYCHOLOGICAL DISORDERS, 4 CREDITS Introduction to clinical psychology, including common mental health concerns and approaches to treatment. Prerequisite or Corequisite: WRD-098 or placement in WR-121Z									
OC NCT	PSY-219-01 343397 MW E. SAUBER					\$520.00	\$52.00	\$0.00	\$572.00
OC NCT	PSY-219-02 343399 TTH E. SAUBER					\$520.00	\$52.00	\$0.00	\$572.00
ONL	PSY-219-03 343400 S. KISER					\$520.00	\$52.00	\$0.00	\$572.00
PSY-231 INTRODUCTION TO HUMAN SEXUALITY, 4 CREDITS Introduction to research and theories of human sexual behavior, including: sexual relationships, communication and intimacy, sex roles, the development of gender, social trends regarding sexuality, human sexual response, biology of sexuality, and conception. Prerequisite or Corequisite: WRD-098 or placement in WR-121Z									
OC NCT	PSY-231-01 343404 MW E. SAUBER					\$520.00	\$52.00	\$0.00	\$572.00
PSY-280 PSYCHOLOGY/CWE, 2-6 CREDITS (VAR) Cooperative work experience. This course allows students to engage in real-world learning and apply their academic knowledge in the field of psychology. Required: Student Petition. Corequisites: CWE-281									
OC NCT	PSY-280-01 343406 J. KISSLER					\$780.00	\$78.00	\$45.00	\$903.00V
Required: Student Petition. Corequisite: Take the following CWE-281-06.									

Religion

R-103 ASIAN RELIGIONS, 4 CREDITS

An introduction to the history, ideas, and philosophy of Asian religions including Hinduism, Buddhism, Jainism, Sikhism, Taoism, Confucianism, and Shintoism. Examine Asian religions' impact on contemporary culture.

Recommended Prerequisites: WRD-090 or placement in WRD-098

ONL	R-103-01 343409 J. SHELTON					\$520.00	\$52.00	\$0.00	\$572.00
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R-211 HISTORY OF THE OLD TESTAMENT, 4 CREDITS

An introduction to the Old Testament/Tanakh that covers the early developments of the Hebrew community: Patriarchs, Abraham, Moses, and Sinai. Examines Old Testament monarchy, prophets, and wisdom literature. Examines modern theories of biblical interpretation.

Recommended Prerequisites: WRD-090 or placement in WRD-098

ONL	R-211-01 343411 J. SHELTON					\$520.00	\$52.00	\$0.00	\$572.00
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R-280 RELIGION/CWE, 2-6 CREDITS (VAR)

Cooperative work experience. Provides students with on-the-job work experience in the field of religion. Required: Student Petition.

Corequisites: CWE-281

OC NCT	R-280-01 343413 D. LOUGEE J. SHELTON					\$780.00	\$78.00	\$45.00	\$903.00V
Required: Student Petition. Corequisite: Take the following CWE-281-06.									

Renewable Energy Technology

All degree seeking students should arrange to speak to a faculty advisor prior to registering. Call 503-594-3318 for more information, or contact Advising, 503-594-3475.

RET-200 RENEWABLE ENERGY SYSTEMS, 2 CREDITS

Campus Locations:
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ESPAÑOL: Enseñado en español
LCT: Low-Cost Text
NCT: No-Cost Text

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
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This course provides a survey of various renewable energy systems. Participants will learn about the benefits and limitations of each type of energy source as well as their functional principles. Students will participate in several field learning exercises related to energy systems. The intended audiences are technical students wishing to explore the Renewable Energy field and students from the humanities and social sciences wanting a better understanding of this socially important technology.

oc	RET-200-01	343355 MW			9-10:20 AM					
	S. PAVEY	\$260.00	\$26.00	\$87.50		\$373.50				

RET-215 RENEWABLE ENERGY IV: SYSTEMS DESIGN, 3 CREDITS

This fourth course in the series will concentrate on systems design for renewable energy applications. Students will work together and apply concepts to evaluate, design and select one or more renewable energy systems for solar, wind or micro-hydro installations. Topics will include site surveys, structural elements, electrical generators, energy storage and electrical inversion.

Prerequisites: RET-213

oc	RET-215-01	343362 TTH			9-11:50 AM					
	S. PAVEY	\$390.00	\$39.00	\$131.25		\$560.25				

RET-280 RENEWABLE ENERGY/CWE, 1-12 CREDITS

Cooperative work experience. Major emphasis on work-based learning experience in the renewable energy field. Coordination of instruction and evaluation of student job performance will be provided by college faculty in conjunction with the student's employer/supervisor. Required: Student Petition.

Corequisites: CWE-281

ONL	RET-280-01	343364								
	C. CONNORS	\$1,560.00	\$156.00	\$570.00		\$2,286.00				

Required: Student Petition. Corequisite: Take the following CWE-281-06.

Small Business Development Center

Registration for these workshops does not require college admission. E-mail bizcenter@clackamas.edu for online registration instructions.

For more information on these classes or other questions regarding your small business needs, contact the Small Business Development Center (SBDC) at 503-594-0738. Website: www.oregonsbdc.org/clackamas

SBM-010 REAL ESTATE BROKER LICENSE, 0 CREDIT

Prepares students to qualify for the Oregon Real Estate Broker's License exam by studying statutes, rules and anti-discrimination laws pertaining to the licensing and professional real estate activity required by all licensees of the State of Oregon.

REM	SBM-010-01WI	347603 TH			6-9:00 PM
	TBA	S			9-5:00 PM

SBM-011 PROPERTY MANAGEMENT PRE-LICENSE, 0 CREDIT

Prepares students to qualify for the Oregon Real Estate Property Management License exam by studying laws and statutes pertaining to the licensing and professional property management activity required by all licensees of the State of Oregon.

REM	SBM-011-01WI	347604 T			6-8:00 PM
	TBA				

SBM-020 LAUNCH & GROW: SMALL BUSINESS BASICS, 0 CREDIT

Two-term intensive training program designed to assist entrepreneurs in planning their business startups, and to develop existing businesses to make them more profitable and to create jobs. Students do extensive individual work on developing business plans with counseling from instructor. Greenhouse small business management.

REM	SBM-020-05WI	347605 T			6:30 -9:30 PM
	J. SELBY				
REM	SBM-020-06WI	347606 T			6:30 -9:30 PM
	J. SELBY				
REM	SBM-020-07WI	347607 T			6:30 -9:30 PM
	J. SELBY				
REM	SBM-020-08WI	347608 T			6:30 -9:30 PM
	J. SELBY				

SBM-024A EXIT SMART: RETIRING WITH SELLING & SUCCESSION STRATEGIES, 0 CREDIT

Learn how to harvest your small farm business, not just your crops. Succession planning in small farm ownership is a critical and complex 3-10 year process that, when done properly, helps farmers maximize their return on their farm investment so they can reach their long-term goals in retirement. This hands-on, 3 month program is designed to teach farmers and individuals who want to buy a farm, how to make it happen. Course consists of monthly class meetings, individual business counseling, peer networking, and work in/on the business.

HAR HYB	SBM-024A-01WI	347660 TH			1-4:00 PM
	D. TOURNEY				
HAR HYB	SBM-024A-02WI	347661 TH			1-4:00 PM
	D. TOURNEY				
HAR HYB	SBM-024A-03WI	347662 TH			1-4:00 PM
	D. TOURNEY				

SBM-028A CONTRACTOR ESSENTIALS MANAGEMENT - PART 1, 0 CREDIT

Provides information on starting and growing a successful construction business. Teaches students marketing techniques, estimating methods, tax strategies and recordkeeping. Discusses best practices of working with subcontractors and hiring and managing employees.

ONL	SBM-028A-01WI	347663			
	D. TOURNEY				

SBM-028B CONTRACTOR ESSENTIAL MANAGEMENT - PART 2, 0 CREDIT

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	Instructor						Crs. Fee	
Provides information on starting and growing a successful construction business. Teaches students marketing techniques, estimating methods, tax strategies and recordkeeping. Discusses best practices of working with subcontractors and hiring and managing employees.								
ONL	SBM-028B-02WI	347664	T					
	D. TOURNEY							
ONL	SBM-028B-03WI	347665						
	D. TOURNEY							
SBM-029A NEXT LEVEL CONTRACTING: ADVANCED BUSINESS STRATEGIES FOR CONTRACTORS - PART 1, 0 CREDIT								
Provides information on continuing to grow a successful construction business. Teaches students technology and software options and intermediate marketing techniques and strategies. Discusses construction math and conversions.								
REM	SBM-029A-01WI	347668	W				6:30 -8:00 PM	
	D. TOURNEY							
SBM-029B NEXT LEVEL CONTRACTING: ADVANCED BUSINESS STRATEGIES FOR CONTRACTORS - PART 2, 0 CREDIT								
Provides information on continuing to grow a successful construction business. Teaches students technology and software options and intermediate marketing techniques and strategies. Discusses construction math and conversions.								
REM	SBM-029B-02WI	347670	W				6:30 -8:00 PM	
	D. TOURNEY							
SBM-029C NEXT LEVEL CONTRACTING: ADVANCED BUSINESS STRATEGIES FOR CONTRACTORS - PART 3, 0 CREDIT								
Provides information on continuing to grow a successful construction business. Teaches students about payroll and benefits and registering for government contracts in the construction industry. Discusses long term business planning.								
REM	SBM-029C-03WI	347671	W				6:30 -8:00 PM	
	D. TOURNEY							
SBM-030 PROFITABILITY & RESILIENCY SMALL BUSINESS MANAGEMENT, 0 CREDIT								
Provides education for assessment of existing business model, diagnosis of the business and a prescriptive action plan to improve the business. Teaches students to research, study and apply content learned in class.								
REM	SBM-030-01WI	347666	T				6:30 -8:00 PM	
	D. TOURNEY							
SBM-031A SCOREBOARDS IN BUSINESS - PART 1, 0 CREDIT								
Your scoreboard appears on financial statements in your business: Balance Sheet, Income Statement (Profit & Loss) and Statement of Cash Flows. There are key metrics that run your business. Explore each statement and gain great information to work effectively with your staff, customers, vendors, banks, and your accountant. Learn what the scoreboard is telling you and others. This is not a highly technical class - it's practical and will be a guide.								
REM	SBM-031A-01WI	347673	T				6:30 -8:00 PM	
	D. TOURNEY							
SBM-031B SCOREBOARDS IN BUSINESS - PART 2, 0 CREDIT								
Your scoreboard appears on financial statements in your business: Balance Sheet, Income Statement (Profit & Loss) and Statement of Cash Flows. There are key metrics that run your business. Explore each statement and gain great information to work effectively with your staff, customers, vendors, banks, and your accountant. Learn what the scoreboard is telling you and others. This is not a highly technical class - it's practical and will be a guide.								
REM	SBM-031B-02WI	347674	T				6:30 -8:00 PM	
	D. TOURNEY							
SBM-031C SCOREBOARDS IN BUSINESS - PART 3, 0 CREDIT								
Your scoreboard appears on financial statements in your business: Balance Sheet, Income Statement (Profit & Loss) and Statement of Cash Flows. There are key metrics that run your business. Explore each statement and gain great information to work effectively with your staff, customers, vendors, banks, and your accountant. Learn what the scoreboard is telling you and others. This is not a highly technical class - it's practical and will be a guide.								
REM	SBM-031C-03WI	347675	T				6:30 -8:00 PM	
	D. TOURNEY							
XSBM-0003 GOING INTO BUSINESS, 0 CREDIT								
Going Into Business orientation introduces the steps you need to take to start-up and successfully operate a small business in Oregon. Before you go too far, find out what it takes to start up your own business. This workshop will help you assess whether business ownership is the right path for you. Discover what resources are available to you for researching, starting-up, financing, and managing your new business.								
REM	XSBM-0003-01WI	347585	TH				6:30 -9:30 PM	
	J. SELBY							
REM	XSBM-0003-02WI	347586	TH				6:30 -9:30 PM	
	J. SELBY							
REM	XSBM-0003-03WI	347587	TH				6:30 -9:30 PM	
	J. SELBY							
XSBM-0005 GOING OUT OF BUSINESS, 0 CREDIT								
This is a class that helps a business owner begin understanding steps involved in transitioning their business. There are many considerations both for the owner, family members/heirs, employees, customers and vendors as well as the community.								
REM	XSBM-0005-01WI	347588	TH				6:30 -8:30 PM	
	D. TOURNEY							
REM	XSBM-0005-02WI	347609	TH				6:30 -8:30 PM	
	D. TOURNEY							
REM	XSBM-0005-03WI	347610	TH				6:30 -8:30 PM	
	D. TOURNEY							

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Course Listing

2026/WI

Course No	Course Title, Credits					
Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Total
Instructor					Crs. Fee	

XSBM-0010 PREPARING FOR THE CCB EXAM, 0 CREDIT

This class will prepare students to qualify for and successfully pass the Construction Contractors Board (CCB) exam required for contractor certification in Oregon. The class is taught by a certified CCB education provider and fulfills the CCB pre-exam educational requirement as stipulated under Oregon Revised Statute 701.280.

HAR	XSBM-0010-30WI	347597 THF			8-5:00 PM	
	O. FERRER					
HAR	XSBM-0010-31WI	347598 TTH			8-5:00 PM	
	O. FERRER					
HAR	XSBM-0010-32WI	347599 THF			8-5:00 PM	
	O. FERRER					
HAR	XSBM-0010-33WI	347600 THF			8-5:00 PM	
	TBA					
HAR	XSBM-0010-34WI	347601 THF			8-5:00 PM	
	TBA					
HAR	XSBM-0010-35WI	347602 THF			8-5:00 PM	
	TBA					

XSBM-0011 QUICKBOOKS PRO: PART I, 0 CREDIT

Learn how to set up and use QuickBooks. Students enter company, customer and vendor information, produce invoices, accept payments, make deposits and pay bills using QuickBooks.

HAR	XSBM-0011-22WI	347594 W			6-9:00 PM	
	C. WEESNER					

XSBM-0012 QUICKBOOKS PRO: PART II, 0 CREDIT

In this continuation class, topics include creating and customizing forms and reports, basic job costing, memorizing transactions and reconciling bank and credit card statements.

HAR	XSBM-0012-22WI	347595 S			9-5:00 PM	
	C. WEESNER					

XSBM-0024 CONSTRUCTION BUSINESS FUNDAMENTALS: ACCURATE ESTIMATING & FINANCIAL RECORDS, 0 CREDIT

This class is designed to help those students who have successfully completed the Preparing for the CCB Exam class gain a basic understanding of recordkeeping and entry level estimating practices.

ONL	XSBM-0024-40WI	347596				
	D. TOURNEY					

Social Science

SSC-160 FAITH & REASON, 4 CREDITS

An introduction of how personal concepts of faith & reason and institutions of science & religion shape personal intellectual landscapes. Examines classical philosophy, sacred texts, worldviews, modern fiction, poetry, theology, cosmology, and evolutionary biology.

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Instructor					Crs. Fee	

Recommended Prerequisites: WRD-098 or placement in WR-121Z

ONL	SSC-160-01	343444				
	J. SHELTON		\$520.00	\$52.00	\$0.00	\$572.00

Sociology

SOC-204Z INTRODUCTION TO SOCIOLOGY, 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.

Recommended Prerequisites: WRD-098 or placement in WR-121Z

OC HYB	SOC-204Z-01	343416 TH			10-11:50 AM	
	E. PFEIFER		\$520.00	\$52.00	\$0.00	\$572.00
OC HYB	SOC-204Z-02	343417 W			1-2:50 PM	
	E. PFEIFER		\$520.00	\$52.00	\$0.00	\$572.00

SOC-205Z SOCIAL CHANGE AND INSTITUTIONS, 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.

Recommended Prerequisites: WRD-098 or placement in WR-121Z

ONL LCT	SOC-205Z-01	343424				
	J. LOVELESS		\$520.00	\$52.00	\$0.00	\$572.00

SOC-206Z SOCIAL PROBLEMS, 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.

Recommended Prerequisites: WRD-098 or placement in WR-121Z

OC HYB	SOC-206Z-01	343429 W			10-11:50 AM	
	E. PFEIFER		\$520.00	\$52.00	\$0.00	\$572.00
OC HYB	SOC-206Z-02	345539 TH			1-2:50 PM	
	E. PFEIFER		\$520.00	\$52.00	\$0.00	\$572.00

SOC-207 SOCIAL STRATIFICATION & SOCIAL SYSTEMS, 4 CREDITS

This course explores the inequality that exists in our society. Social stratification is the unequal distribution of resources and opportunities in a society. Issues like gender, race, poverty, education and capitalism will be explored and discussed in an attempt to understand their impact on the inequality that we experience in our society. Various sociological theories will be introduced and utilized to explore and enhance our understanding of these issues.

Recommended Prerequisites: WRD-098 or placement in WR-121Z

ONL LCT	SOC-207-01	345332				
	J. LOVELESS		\$520.00	\$52.00	\$0.00	\$572.00

SOC-210 MARRIAGE, FAMILY, & INTIMATE RELATIONS, 4 CREDITS

Course Listing

2026/WI

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Crs. Fee	Total
This course will introduce students to the study of marriage, intimate relations and family systems from the sociological viewpoint. Students will examine the ways in which race, class, gender, sexuality, community, and society influence patterns of courtship, intimate relations, marriage, and family, and explore the various challenges facing families today. Recommended Prerequisites: WRD-098 or placement in WR-121Z									
ONL NCT	SOC-210-01	343426	J. LOVELESS			\$520.00	\$52.00	\$0.00	\$572.00
SOC-280	SOCIOLOGY/CWE, 2-6 CREDITS (VAR)								
Cooperative work experience. This course allows students who are already working in the field of sociology to earn college credit for that work. Required: Student Petition. Corequisites: CWE-281									
OC NCT	SOC-280-01	343430	E. PFEIFER			\$780.00	\$78.00	\$45.00	\$903.00V
Required: Student Petition. Corequisite: Take the following CWE-281-06.									
Statistics									
STAT-243Z	ELEMENTARY STATISTICS I, 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. Prerequisites: MTH-105Z or MTH-111Z with a C or better, or placement in STAT-243Z Recommended Prerequisites: WRD-098 or placement in WR-121Z									
OC NCT	STAT-243Z-01	343445 MW	M. YANNOTTA			\$520.00	\$52.00	\$20.00	\$592.00
OC NCT	STAT-243Z-02	343447 MW	T. BIEBER			\$520.00	\$52.00	\$20.00	\$592.00
OC NCT	STAT-243Z-03	343449 TTH	T. BIEBER			\$520.00	\$52.00	\$20.00	\$592.00
ONL NCT	STAT-243Z-10	343451	K. AMREIN			\$520.00	\$52.00	\$20.00	\$592.00
Theatre Arts									
TA-102	APPRECIATION OF THEATRE, 4 CREDITS								
Students will be introduced to the many aspects of theatre arts at an intermediate level by attending multiple area productions. Plays will be reviewed and evaluated through writing assignments and discussions. Recommended Prerequisites: TA-101 and WRD-098 or placement in WR-121Z									
ONL	TA-102-01	347630	A. MOON			\$520.00	\$52.00	\$110.00	\$682.00
TA-112	FUNDAMENTALS OF TECHNICAL THEATRE, 4 CREDITS								
Second class of a three-part series. Intermediate study and practice in techniques of mounting various types of productions for presentation. Includes basic principles and techniques in stage design, construction, and lighting. Flexible laboratory sessions available. Students must attend a performance as well as participate in the focus and strike (10 total hours) of a production. Students are required to maintain an independent journal/study (12 total hours) of outside class activity and observations of Technical Theatre applications.									
OC LCT	TA-112-01	342421 TTH	C. WHITTEN			\$520.00	\$52.00	\$35.00	\$607.00
TA-122	COSTUMING II, 3 CREDITS								
Second in a three-part series. Study and practice in theatrical costuming techniques for various types of live theatrical productions. Students will analyze scripts, research historical background, and study period fashion to develop character wardrobes. This is a project-based course where students will construct and tailor costume and prop pieces for cast members. No experience necessary; limited seats. Recommended Prerequisites: TA-121									
OC LCT	TA-122-01	342430 MW	A. MCFARLAND			\$390.00	\$39.00	\$0.00	\$429.00
TA-142	ACTING II, 4 CREDITS								
Further studies the methods, techniques, and theories of acting as an art form. Workshop, discussion, and performance of exercises and monologues/scenes from dramatic literature with written assignments to include response and analysis papers. Intermediate work on vocal, physical, and script analysis skills with special focus on language. Second in a series. Recommended Prerequisites: TA-141 and WRD-098 or placement in WR-121Z									
OC LCT	TA-142-01	342434 MW	A. MOON			\$520.00	\$52.00	\$35.00	\$607.00
TA-153	THEATRE REHEARSAL & PERFORMANCE, 1-3 CREDITS (VAR)								
Training in theatre production through intensive study and rehearsal of scenes and plays for public performance. May be repeated for up to 6 credits. Required: Student Petition. Required: Successful audition/interview Recommended Prerequisites: TA-141 and TA-142, or TA-143; or TA-111 and TA-112, or TA-113									
OC LCT	TA-153-01	342440 MWF	A. MOON			\$390.00	\$39.00	\$25.00	\$454.00V
Required: Student Petition.									
TA-195	STUDENT PERFORMANCE SHOWCASE, 1-3 CREDITS (VAR)								
Training in special forms of theatrical presentation through in-class intensive preparation, study, and program development for public presentation, including comedy improvisation, stand-up comedy, and student directed one-act plays. Roles in one-act plays require a successful audition. Other opportunities open to all. May be repeated for up to 6 credits.									
OC LCT	TA-195-01	342446 MWF	M. MAZZA A. MOON C. WHITTEN			\$390.00	\$39.00	\$35.00	\$464.00V
Meets: One-Acts 12-2:50pm, Writing for Theatre 12-1:30pm M/W, Singing for Theatre 12-2:50pm F.									

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TA-212 TECHNICAL THEATRE STUDY, 4 CREDITS

Second class of a three part series. Comprehensive study and practice in presentational graphics, scene design, lighting design and chromatics. The full creative process of staging a production will be explored through aesthetic research and design projects. Includes hands-on participation in CCC's main stage productions. Students must attend a performance as well as participate in the focus and strike (10 total hours) of a production. Students are required to maintain a journal/study (12 total hours) of outside class activities and observing Technical Theatre applications.

Prerequisites: TA-111, TA-112, and TA-113

Recommended Prerequisites: WRD-098 or placement in WR-121Z

OC LCT	TA-212-01	342451 TTH			1-3:50 PM	
	C. WHITTEN		\$520.00	\$52.00	\$35.00	\$607.00

TA-253 THEATRE REHEARSAL & PERFORMANCE, 1-3 CREDITS (VAR)

Intermediate training in theatre production through intensive study and rehearsal of scenes and plays for public performance. May be repeated for up to 6 credits. Required: Student Petition.

Required: Successful audition/interview

Recommended Prerequisites: TA-153

OC LCT	TA-253-01	342454 MWF			3-5:50 PM	
	A. MOON		\$390.00	\$39.00	\$25.00	\$454.00V
	Required: Student Petition.					

TA-280 THEATRE/CWE, 2-6 CREDITS (VAR)

Cooperative work experience. Provides students with a learning experience related to course of study and career goal. Major emphasis will be given to on-the-job experience and training. Required: Student Petition.

Corequisites: CWE-281

OC LCT	TA-280-01	342458				
	C. WHITTEN		\$780.00	\$78.00	\$45.00	\$903.00V
	Required: Student Petition.					

TA-295 STUDENT PERFORMANCE SHOWCASE, 1-3 CREDITS (VAR)

Training in special forms of theatrical presentation through in-class intensive preparation, study, and program development for public presentation, including comedy improvisation, stand-up comedy, and student directed one-act plays. Roles in one-act plays require a successful audition. Other opportunities open to all. May be repeated for up to 6 credits.

OC LCT	TA-295-01	342464 MWF			12-2:50 PM	
	M. MAZZA		\$390.00	\$39.00	\$35.00	\$464.00V
	A. MOON					
	C. WHITTEN					
	Meets: One-Acts 12-2:50pm, Writing for Theatre 12-1:30pm M/W, Singing for Theatre 12-2:50pm F.					

XATH-0001 PLAYS & REHEARSALS, 0 CREDIT

Training in theatre production through intensive study and rehearsal of scenes and plays for public performance.

OC	XATH-0001-01	347628 MWF			3-5:50 PM	
	A. MOON		\$0.00	\$0.00	\$35.00	\$35.00

XATH-0002 STAGECRAFT, 0 CREDIT

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
OFF: Other Off-Campus Location

Distance Education Notification:
ONL: Online Only
REM: Remote (w/ scheduled meetings)
HYB: In-person plus online work

Other Coding Translations:
TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text
NCT: No-Cost Text

Course No	Course Title, Credits					
Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total

Training in special forms of theatrical presentation through in-class intensive preparation, study and program development for public presentation to the community.

OC	XATH-0002-01	347629 MWF			3-5:50 PM	
	A. MOON		\$0.00	\$0.00	\$35.00	\$35.00

Water & Environmental Technology**WET-020 WASTEWATER OPERATIONS II, 3 CREDITS**

For professional upgrade only. Does not meet the requirements for the certificate or degree. Secondary wastewater treatment alternatives with municipal application. Fixed and suspended film systems and clarification process. Includes biological sludge treatment.

Prerequisites: WET-010

OC	WET-020-01	343369 M			6-8:50 PM	
	M. LAFORCE		\$390.00	\$39.00	\$15.00	\$444.00
	Remote options available with this section.					

WET-021 WATERWORKS OPERATIONS II, 3 CREDITS

For professional upgrade only. Does not meet the requirements for the certificate or degree. Basic hydrology, ground water and surface water sources, well construction and operation, introduction to water chemistry, waterworks hydraulics, and fundamentals of pumps and pumping.

OC	WET-021-01	343371 T			6-8:50 PM	
	J. NURMI		\$390.00	\$39.00	\$15.00	\$444.00
	Remote options available with this section.					

WET-108 CROSS-CONNECTION CONTROL PROGRAM SPECIALIST, 3 CREDITS

Specialized training for those who want to be involved in administering cross-connection control programs. Elements of a cross-connection control program, basic hydraulics, state specific regulations, identifying possible cross-connections and site surveys in order to determine proper type of backflow protection, if needed.

OC	WET-108-01	343375 MTWTH			8-4:50 PM	
	J. NURMI		\$390.00	\$39.00	\$0.00	\$429.00
	Meets: 3/16-3/19.					

WET-109 BACKFLOW ASSEMBLY OPERATION AND TESTING, 4 CREDITS

Lecture course with hands on activities that focuses on backflow assembly hydraulics, operations, installation, and testing.

OC	WET-109-01	343378 MTWTHF			8-4:50 PM	
	M. LAFORCE		\$520.00	\$52.00	\$0.00	\$572.00
	Required: Student Petition. Meets: 3/16-3/20.					

WET-120 WASTEWATER OPERATIONS II, 3 CREDITS

Secondary wastewater treatment alternatives with municipal application. Fixed and suspended film systems with the associated clarification process will be presented.

Corequisites: MTH-082C

Prerequisites: WET-110

OC	WET-120-01	343380 M			6-8:50 PM	
	M. LAFORCE		\$390.00	\$39.00	\$15.00	\$444.00
	Remote options available with this section.					

WET-121 WATERWORKS OPERATIONS II, 3 CREDITS

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
An introduction to water distribution, with a focus on water regulations, operator math, water chemistry, and specific water distribution processes. Also examines distribution system design, water mains, hydrants and valves, water pumps, water system supply security, and public relations. Everything you need to know to pass the water distribution grade 1 state certification. Corequisites: MTH-082D Prerequisites: WET-111										
oc	WET-121-01	343382 T	6-8:50 PM							
	J. NURMI	\$390.00	\$39.00	\$15.00	\$444.00					
	Remote options available with this section.									
WET-122	WATER DISTRIBUTION AND WASTEWATER COLLECTION SYSTEMS, 3 CREDITS									
Elementary engineering aspects of water distribution and wastewater collection systems. System components, construction materials, pump station design, maintenance, operations, and other related topics. Prerequisites: WET-110 Corequisites: WET-120										
oc	WET-122-01	343384 T	12:30 -3:20 PM							
	M. LAFORCE	\$390.00	\$39.00	\$15.00	\$444.00					
	Remote options available with this section.									
WET-123	ENVIRONMENTAL CHEMISTRY I, 3 CREDITS									
Theory and applied laboratory techniques for testing water and wastewater. Students will test wastewater for NPDES required tests. Corequisites: WET-123L										
oc LCT	WET-123-01	343386 M	12-1:50 PM							
	M. LAFORCE	\$390.00	\$39.00	\$50.00	\$479.00					
oc	WET-123-02	343388 W	12-1:50 PM							
	M. LAFORCE	\$390.00	\$39.00	\$50.00	\$479.00					
WET-123L	ENVIRONMENTAL CHEMISTRY I LAB, 0 CREDIT									
Lab course for WET-123 Corequisites: WET-123										
oc LCT	WET-123L-01	343389 M	2-4:50 PM							
	M. LAFORCE	\$0.00	\$0.00	\$28.00	\$28.00					
oc	WET-123L-02	343391 W	2-4:50 PM							
	M. LAFORCE	\$0.00	\$0.00	\$28.00	\$28.00					
WET-135	HIGH PURITY WATER PRODUCTION II, 4 CREDITS									
A lab course focusing on the operation of equipment and unit processes in the production of high purity water. Emphasis on process equipment sizing and design, process control and troubleshooting. Prerequisites: WET-125 and MTH-082E										
REM	WET-135-01	343393 M	1-3:50 PM							
	M		4-6:50 PM							
	G. CARR	\$520.00	\$52.00	\$0.00	\$572.00					
WET-180	WATER & ENVIRONMENTAL PROJECTS I, 5 CREDITS									
Cooperative work experience. Practical work experience in a municipal industrial treatment, distribution, or collection system. Placement in consulting firms, federal and state regulatory agencies, BLM, BPA, and other regulated governmental organizations. Corequisites: CWE-281										
ONL LCT	WET-180-01	343395								
	M. LAFORCE	\$650.00	\$65.00	\$45.00	\$760.00					
	Required: Student Petition. Corequisite: Take the following CWE-281-01.									
WET-280	WATER & ENVIRONMENTAL PROJECTS II, 5 CREDITS									
Cooperative work experience. Practical work experience in a municipal industrial treatment, distribution, or collection system. Placement in consulting firms, federal and state regulatory agencies, BLM, BPA, and other regulated governmental organizations. Practical experience in a municipal, public or private wastewater treatment facility of specific activated sludge design. Process loading criteria, data acquisition and trend charting, and relevant sanitary process strategies will be addressed. Corequisites: CWE-281										
ONL LCT	WET-280-01	343398								
	M. LAFORCE	\$650.00	\$65.00	\$45.00	\$760.00					
	Required: Student Petition. Corequisite: Take the following CWE-281-01.									
XWET-C001	1-DAY CROSS CONNECTION SPECIALIST UPDATE, 0.70 CEUS									
Update on code information or any changes in the program.										
oc LCT	XWET-C001-31	343598 F	8-3:50 PM							
	J. NURMI	\$0.00	\$0.00	\$0.00	\$0.00					
	Meets: 3/6. Register on www.ccc-wet.eventbrite.com .									
XWET-C002	1-DAY TESTER RENEWAL, 0.70 CEUS									
Update on OARs and hands on testing to recertify student for backflow assembly certification through the State of Oregon.										
oc LCT	XWET-C002-11	343599 F	8-4:50 PM							
	M. LAFORCE	\$0.00	\$0.00	\$0.00	\$0.00					
	Meets: 2/6. Register at https://ccc-wet.eventbrite.com/ .									
oc	XWET-C002-12	343600 F	8-4:50 PM							
	M. LAFORCE	\$0.00	\$0.00	\$0.00	\$0.00					
	Meets: 3/6. Register at https://ccc-wet.eventbrite.com/ .									
XWET-C003	2-DAY TESTER RETRAIN/RENEWAL, 1.40 CEUS									
Review of backflow prevention assemblies used for water/wastewater system cross connection control. Review will include overview of hydraulics and degree of hazards, proper backflow installation procedures, and approved testing/troubleshooting procedures. Students will learn to identify common, actual, and potential cross connection hazards; students will be introduced to the basic requirements for carrying out a cross connection program. Upon successful hands on and written exam completion, students will be issued certificate of completion by OBT/CCC and transcribed for appropriate number of CEUs. Students will be able to apply to Oregon Health Department for recertification by that agency.										
oc	XWET-C003-21	343601 THF	8-4:50 PM							
	M. LAFORCE	\$0.00	\$0.00	\$0.00	\$0.00					
	Meets: 1/15 & 1/16. Register at https://ccc-wet.eventbrite.com/ .									
oc	XWET-C003-22	343602 THF	8-4:50 PM							
	M. LAFORCE	\$0.00	\$0.00	\$0.00	\$0.00					
	Meets: 2/20-2/21. Register at https://ccc-wet.eventbrite.com/ .									
XWET-C005	5-DAY BACKFLOW TESTER COURSE, 4.00 CEUS									

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Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time	Total
	Instructor		Tuition	Fee	Crs. Fee	
	Presentation of backflow prevention assemblies used for water/wastewater system cross connection control. Class will include overview of hydraulics and degree of hazards, proper backflow installation procedures, and approved testing/troubleshooting procedures. Students will learn to identify common, actual, and potential cross connection hazards; students will be introduced to the basic requirements for carrying out a cross connection program. Students will be able to apply to Oregon Health Authority for Certification by that agency.					
oc	XWET-C005-51	343604	MTWTHF	8-4:50 PM		
	M. LAFORCE	\$0.00	\$0.00	\$0.00	\$0.00	
	Meets: 3/16-3/20. Register at https://ccc-wet.eventbrite.com/ .					

Welding Technology

Must have ANSI approved eye protection first day and comply with College safety policy.

WLD-100 WELDER'S PRINT READING I, 3 CREDITS

Provides instruction in reading and interpretation of prints and symbols common in the welding industry. Participants will learn the interpretation and application of basic lines, dimensions, structural shapes, and specifications. Welding symbols and their application to different types of joint configurations will be covered, as well as how to develop basic shop drawings and prints.

oc	WLD-100-01	343401	TH	2-4:50 PM		
	D. PODKOWA	\$390.00	\$39.00	\$219.00	\$648.00	
oc	WLD-100-02	343403	T	6-8:50 PM		
	D. PODKOWA	\$390.00	\$39.00	\$219.00	\$648.00	

WLD-102 INTRODUCTION TO WELDING, 2 CREDITS

Designed for the beginner and experimental welder. Includes: oxy-acetylene cutting and welding, SMAW (Shielded Metal Arc Welding), GMAW & FCAW (Gas Metal Arc Welding & Flux Core Arc Welding) and GTAW (Gas Tungsten Arc Welding) and plasma arc cutting.

oc	WLD-102-01	343405	F	6-9:50 PM		
	A. TOWN	\$260.00	\$26.00	\$146.00	\$432.00	
oc	WLD-102-02	343407	S	9-12:50 PM		
	K. DRURY	\$260.00	\$26.00	\$146.00	\$432.00	
oc	WLD-102-03	343408	S	2-5:50 PM		
	K. DRURY	\$260.00	\$26.00	\$146.00	\$432.00	

WLD-102ES INTRODUCCIÓN A LA SOLDADURA, 2 CREDITS

Diseñado para soldaderos principantes y experimental. Incluye corte y soldadura oxiacetileno, soldadura por arco de metal blindado (SMAW), la soldadura de arco de metal y gas (GMAW) y Soldadura por Arco con Nucleo de Fundente (FCAW) y soldadura por arco de gas tungsteno (GTAW) y corte por plasma.

OC ESPAÑOL	WLD-102ES-01	343410	S	6-9:50 PM		
	F. PAXTOR	\$260.00	\$26.00	\$146.00	\$432.00	

WLD-103 BLACKSMITHING & TRADITIONAL IRON WORKING, 2 CREDITS

This course introduces the student to basic blacksmithing techniques and processes, as well as terminology, steel types, heat treating and tool making. Multiple projects allow the student to practice the varied methods of manual metal forming. No welding experience required.

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time	Total
	Instructor		Tuition	Fee	Crs. Fee	
OC	WLD-103-01	343412	F	6-9:50 PM		
	M. TIZO	\$260.00	\$26.00	\$146.00	\$432.00	
OC	WLD-103-02	343414	SU	10-1:50 PM		
	M. TIZO	\$260.00	\$26.00	\$146.00	\$432.00	

WLD-110 WELDER CERTIFICATION, 4 CREDITS

This course provides theory and practical instruction to become a certified welder. Students will choose a welding process (flux core arc welding, shielded metal arc welding, or gas tungsten arc welding) for certification. Material needed for practice welding will be provided. Students will take a welding certification exam at the end of the class. May be repeated for up to 12 credits.

OC NCT	WLD-110-01	343415	MW	8-11:50 AM		
	D. PODKOWA	\$520.00	\$52.00	\$432.00	\$1,004.00	
	Required: Student Petition.					
OC NCT	WLD-110-02	343418	MW	1-4:50 PM		
	R. THOMAS	\$520.00	\$52.00	\$432.00	\$1,004.00	
	Required: Student Petition.					
OC NCT	WLD-110-03	343421	MW	6-9:50 PM		
	M. TIZO	\$520.00	\$52.00	\$432.00	\$1,004.00	
	Required: Student Petition.					
OC NCT	WLD-110-04	343422	TTH	8-11:50 AM		
	D. BATES	\$520.00	\$52.00	\$432.00	\$1,004.00	
	Required: Student Petition.					
OC NCT	WLD-110-05	343425	TTH	6-9:50 PM		
	B. MULLIGAN	\$520.00	\$52.00	\$432.00	\$1,004.00	
	Required: Student Petition.					
OC NCT	WLD-110-06	343427	TTH	1-4:50 PM		
	B. MULLIGAN	\$520.00	\$52.00	\$432.00	\$1,004.00	
	Required: Student Petition.					
OC	WLD-110-07	347525	T	12:01 -1:50 AM		
			W	10-11:59 PM		
			TH	12:01 -1:50 AM		
			M	10-11:59 PM		
	K. DRURY	\$520.00	\$52.00	\$432.00	\$1,004.00	
	Required: Student Petition.					

WLD-111 SHIELDED METAL ARC WELDING (STICK), 8 CREDITS

Provides students with the opportunity to acquire knowledge and skills to set up and operate equipment to perform fillet and groove welds in all positions with the SMAW process. Oxy-fuel cutting, air carbon arc cutting and gouging will be covered. Welding codes, standards, and specifications will be reviewed.

OC	WLD-111-02	345493	TWTHF	12:01 -1:50 AM		
			MTWTH	10-11:59 PM		
	K. DRURY	\$1,040.00	\$104.00	\$584.00	\$1,728.00	
			0			

WLD-111A SHIELDED METAL ARC WELDING (STICK), 4 CREDITS

The first half of WLD-111 which provides the opportunity to acquire knowledge and skills to set up and operate equipment to perform fillet welds in flat and horizontal positions with the SMAW process. Oxy-fuel cutting, air carbon arc cutting and gouging will be covered.

OC	WLD-111A-02	345494	TTH	12:01 -1:50 AM		
			MW	10-11:59 PM		
	K. DRURY	\$520.00	\$52.00	\$292.00	\$864.00	

WLD-111B SHIELDED METAL ARC WELDING (STICK), 4 CREDITS

The second half of WLD-111 which provides the opportunity to acquire additional knowledge and skills needed to perform more advanced fillet and groove welds in vertical and overhead positions with the SMAW process. Welding codes, standards, and specifications will be reviewed.

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
OFF: Other Off-Campus Location

Distance Education Notification:
ONL: Online Only
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HYB: In-person plus online work

Other Coding Translations:
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VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text
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Course Listing

2026/WI

Course No	Course Title, Credits					
Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total

Prerequisites: WLD-111A

oc	WLD-111B-02 345495 TTH				10-11:59 PM	
	WF				12:01 -1:50 AM	
	K. DRURY		\$520.00	\$52.00	\$292.00	\$864.00

WLD-113 GAS METAL ARC WELDING/FLUX CORE ARC WELDING (WIREFEED), 8 CREDITS

Provides students with the opportunity to acquire knowledge and skills to set up and operate equipment to perform fillet and groove welds in all positions with the Gas Metal Arc and Flux Core Arc Welding processes. Oxy-fuel cutting, and air carbon arc cutting and gouging will be covered. Welding codes, standards and specifications will be reviewed.

oc	WLD-113-01 343428 MTWTH				6-9:50 PM	
	J. PHELPS		\$1,040.00	\$104.00	\$584.00	\$1,728.00

WLD-113A GAS METAL ARC WELDING/FLUX CORE ARC WELDING (WIREFEED), 4 CREDITS

The first half of WLD-113 which provides the opportunity to acquire knowledge and skills to set up and operate equipment to perform fillet welds in flat and horizontal positions with the Gas Metal Arc and Flux Core Arc Welding processes. Oxy-fuel cutting, air carbon arc cutting and gouging will be covered.

oc	WLD-113A-01 343431 MW				6-9:50 PM	
	J. PHELPS		\$520.00	\$52.00	\$292.00	\$864.00
oc	WLD-113A-02 343433 MTWTH				7:30 -9:20 AM	
	R. ABBOTT		\$520.00	\$52.00	\$292.00	\$864.00
oc	WLD-113A-02A 347527 MTWTH				7:30 -9:20 AM	
	R. ABBOTT		\$520.00	\$52.00	\$292.00	\$864.00
	Required: Student Petition. CTE Pathways section, For more information contact HS Connections 503-594-3161.					
oc	WLD-113A-03 343437 MTWTH				1:15 -3:05 PM	
	R. ABBOTT		\$520.00	\$52.00	\$292.00	\$864.00
oc	WLD-113A-03A 347529 MTWTH				1:15 -3:05 PM	
	R. ABBOTT		\$520.00	\$52.00	\$292.00	\$864.00
	Required: Student Petition. CTE Pathways section, For more information contact HS Connections 503-594-3161.					
oc	WLD-113A-04 343441 MTWTH				3:30 -5:20 PM	
	R. ABBOTT		\$520.00	\$52.00	\$292.00	\$864.00
oc	WLD-113A-04A 347531 MTWTH				3:30 -5:20 PM	
	R. ABBOTT		\$520.00	\$52.00	\$292.00	\$864.00
	Required: Student Petition. CTE Pathways section, For more information contact HS Connections 503-594-3161.					
oc	WLD-113A-05 347526 SSU				6-9:50 PM	
	D. PODKOWA		\$520.00	\$52.00	\$292.00	\$864.00

WLD-113B GAS METAL ARC WELDING/FLUX CORE ARC WELDING (WIREFEED), 4 CREDITS

The second half of WLD-113 which provides the opportunity to acquire additional knowledge and skills needed to perform more advanced fillet and groove welds in vertical and overhead positions with the Gas Metal Arc and Flux Core Arc Welding processes. Welding codes, standards, and specifications will be reviewed.

Prerequisites: WLD-113A

oc	WLD-113B-01 343448 TTH				6-9:50 PM	
	J. PHELPS		\$520.00	\$52.00	\$292.00	\$864.00
oc	WLD-113B-02 343453 MTWTH				7:30 -9:20 AM	
	R. ABBOTT		\$520.00	\$52.00	\$292.00	\$864.00

Course No	Course Title, Credits					
Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total

oc	WLD-113B-02A 347528 MTWTH				7:30 -9:20 AM	
	R. ABBOTT		\$520.00	\$52.00	\$292.00	\$864.00
	Required: Student Petition. CTE Pathways section, For more information contact HS Connections 503-594-3161.					
oc	WLD-113B-03 343455 MTWTH				1:15 -3:05 PM	
	R. ABBOTT		\$520.00	\$52.00	\$292.00	\$864.00
oc	WLD-113B-03A 347530 MTWTH				1:15 -3:05 PM	
	R. ABBOTT		\$520.00	\$52.00	\$292.00	\$864.00
	Required: Student Petition. CTE Pathways section, For more information contact HS Connections 503-594-3161.					
oc	WLD-113B-04 343457 MTWTH				3:30 -5:20 PM	
	R. ABBOTT		\$520.00	\$52.00	\$292.00	\$864.00
oc	WLD-113B-04A 347532 MTWTH				3:30 -5:20 PM	
	R. ABBOTT		\$520.00	\$52.00	\$292.00	\$864.00
	Required: Student Petition. CTE Pathways section, For more information contact HS Connections 503-594-3161.					

WLD-115 GAS TUNGSTEN ARC WELDING (GTAW), 8 CREDITS

Provides students with the opportunity to acquire knowledge and skills to set up and operate equipment to perform fillet and groove welds in all positions with the Gas Tungsten Arc Welding process. Plasma arc cutting will be covered. Welding codes, standards, and specifications will be reviewed.

oc	WLD-115-01 343459 MTWTH				8-11:50 AM	
	R. THOMAS		\$1,040.00	\$104.00	\$584.00	\$1,728.00

WLD-115A GAS TUNGSTEN ARC WELDING (GTAW), 4 CREDITS

The first half of WLD-115 which provides the opportunity to acquire knowledge and skills to set up and operate equipment to perform fillet welds in flat and horizontal positions with the Gas Tungsten Arc Welding (GTAW) process. Plasma arc cutting will be covered.

oc	WLD-115A-01 343473 MW				8-11:50 AM	
	R. THOMAS		\$520.00	\$52.00	\$292.00	\$864.00

WLD-115B GAS TUNGSTEN ARC WELDING (GTAW), 4 CREDITS

The second half of WLD-115 which provides the opportunity to acquire additional knowledge and skills needed to perform more advanced fillet and groove welds in vertical and overhead positions with the Gas Tungsten Arc Welding process. Welding codes, standards, and specifications will be reviewed.

Prerequisites: WLD-115A

oc	WLD-115B-01 343485 TTH				8-11:50 AM	
	R. THOMAS		\$520.00	\$52.00	\$292.00	\$864.00

WLD-150 WELDING PROCESSES, 4 CREDITS

Covers oxy-fuel welding, brazing, cutting, SMAW (Shielded Metal Arc Welding), GMAW & FCAW (Gas Metal Arc Welding & Flux Core Arc Welding) and GTAW (Gas Tungsten Arc Welding) and plasma arc cutting and plasma cutting. This course includes safety, electrical fundamentals, routine maintenance, minor repairs, and welding terms and definitions.

oc	WLD-150-01 343492 MW				6-9:50 PM	
	M. TIZO		\$520.00	\$52.00	\$292.00	\$864.00
oc	WLD-150-02 343496 MW				8-11:50 AM	
	D. PODKOWA		\$520.00	\$52.00	\$292.00	\$864.00

WLD-200 WELDER'S PRINT READING II, 3 CREDITS

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
OFF: Other Off-Campus Location

Distance Education Notification:
ONL: Online Only
REM: Remote (w/ scheduled meetings)
HYB: In-person plus online work

Other Coding Translations:
TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text
NCT: No-Cost Text

Course No							Course Title, Credits							Course No							Course Title, Credits							
Section No		Crs Reg.	Days (M,T,W,Th,F,S,SU)		Time	Total	Section No		Crs Reg.	Days (M,T,W,Th,F,S,SU)		Time	Total	Section No		Crs Reg.	Days (M,T,W,Th,F,S,SU)		Time	Total	Section No		Crs Reg.	Days (M,T,W,Th,F,S,SU)		Time	Total	
Instructor			Tuition	Fee	Crs. Fee		Instructor			Tuition	Fee	Crs. Fee		Instructor			Tuition	Fee	Crs. Fee		Instructor			Tuition	Fee	Crs. Fee		
Provides instruction in reading and interpretation of prints and symbols common in welding industry. Participants will learn interpretation and application of blueprint views. Includes basic layout techniques and math review. American Welding Society symbols, International Standards Organization symbols, pipe welding symbols, and inspection symbols are covered. Prerequisites: WLD-100																												
oc		WLD-200-01	343498	T		2-4:50 PM																						
		D. PODKOWA		\$390.00	\$39.00	\$219.00	\$648.00																					
WLD-210 PIPE WELDING, 4 CREDITS																												
Provides beginning theory and practical instruction in the Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux Core Arc Welding (FCAW), or Gas Tungsten Arc Welding (GTAW) processes on steel plate and pipe. The specific projects include: stringer beads, fillet and groove welds on plate with root and cover proficiency, pipe cutting using the oxy-fuel process, pipe beveling and groove welds on pipes in all positions. The student may choose which process or processes will be used to complete the lab assignments. Prerequisites: WLD-111, or WLD-111A and WLD-111B, WLD-113, or WLD-113A and WLD-113B, WLD-115, or WLD-115A and WLD-115B, WLD-150 or prior experience in SMAW, GMAW, FCAW, or GTAW																												
oc		WLD-210-01	343510	MW		1-4:50 PM																						
		R. THOMAS		\$520.00	\$52.00	\$292.00	\$864.00																					
		Required: Student Petition.																										
WLD-212 SHIELDED METAL ARC WELDING PIPE WELDING, 4 CREDITS																												
This class is designed to teach students the fundamentals of open root pipe welding. Theory and practical instruction in open root V groove pipe welding using E6010 and E7018 electrodes will be provided. Oxy-fuel pipe cutting is also included. Required: Student Petition. Prerequisites: WLD-211																												
oc		WLD-212-01	343512	MW		1-4:50 PM																						
		R. THOMAS		\$520.00	\$52.00	\$292.00	\$864.00																					
		Required: Student Petition.																										
WLD-213 ADVANCED GAS METAL ARC WELDING/FLUX CORE ARC WELDING, 4 CREDITS																												
This course provides the opportunity for students to acquire the knowledge and skills needed to perform quality fillet and groove welds in all positions using the Gas Metal Arc Welding (GMAW) and Flux Core Arc Welding (FCAW) processes. Advanced welding theory and procedures will also be included. Prerequisites: WLD-113; or WLD-113A and WLD-113B																												
oc		WLD-213-01	343515	TTH		6-9:50 PM																						
		B. MULLIGAN		\$520.00	\$52.00	\$292.00	\$864.00																					
WLD-215 ADVANCED GAS TUNGSTEN ARC WELDING, 4 CREDITS																												
This course provides the opportunity for students to acquire the knowledge and skills needed to perform quality fillet and groove welds in all positions using the Gas Tungsten Arc Welding (GTAW) process. Advanced welding theory and procedures will also be included. Prerequisites: WLD-115; or WLD-115A and WLD-115B																												
oc		WLD-215-01	343516	TTH		8-11:50 AM																						
		D. BATES		\$520.00	\$52.00	\$292.00	\$864.00																					
WLD-250 WELDING FABRICATION I BEGINNING PROJECT, 4 CREDITS																												
This course consists of lecture and lab and provides instruction in fabrication techniques including blueprint reading, layout, sketching, bills of material, job cost calculations, measuring, fitting, cutting and welding. Students will be assigned beginning fabrication projects. The student will be responsible for all aspects of managing the project to successful completion. Prerequisites: WLD-111, WLD-111A and WLD-111B, WLD-113, WLD-113A and WLD-113B, WLD-115, or WLD-115A and WLD-115B																												
oc		WLD-250-01	343520	TTH		1-4:50 PM																						
		B. MULLIGAN		\$520.00	\$52.00	\$292.00	\$864.00																					
WLD-251 WELDING FABRICATION II INTERMEDIATE PROJECT, 4 CREDITS																												
This course consists of lecture and lab. Students will use the skills learned in WLD-250, such as blueprint reading, layout, sketching, bills of materials, job cost calculations, measuring, fitting, cutting and welding, and apply them to more challenging projects. Students will be assigned intermediate fabrication projects. The student will be responsible for all aspects of managing the project to successful completion. Prerequisites: WLD-250																												
oc		WLD-251-01	343526	TTH		1-4:50 PM																						
		B. MULLIGAN		\$520.00	\$52.00	\$292.00	\$864.00																					
WLD-252 WELDING FABRICATION III ADVANCED PROJECT, 4 CREDITS																												
This course consists of lecture and lab. Students will use the skills learned in WLD-250 and WLD-251, such as blueprint reading, layout, sketching, bills of materials, job cost calculations, measuring, fitting, cutting and welding, and apply them to advanced projects. Students will be assigned advanced fabrication projects. The student will be responsible for all aspects of managing the project to successful completion. Prerequisites: WLD-251																												
oc		WLD-252-01	343529	TTH		1-4:50 PM																						
		B. MULLIGAN		\$520.00	\$52.00	\$292.00	\$864.00																					
WLD-261 WELDING SPECIAL PROJECTS, 1-2 CREDITS (VAR)																												
Allows students to improve their welding skills while working on instructor-approved projects. May be repeated for up to 12 credits.																												
oc		WLD-261-01	343533	M		8-11:50 AM																						
		R. THOMAS		\$260.00	\$26.00	\$146.00	\$432.00V																					
		Required: Student Petition.																										
oc		WLD-261-02	343536	M		1-4:50 PM																						
		R. THOMAS		\$260.00	\$26.00	\$146.00	\$432.00V																					
		Required: Student Petition.																										
oc		WLD-261-03	343538	M		6-9:50 PM																						
		J. PHELPS		\$260.00	\$26.00	\$146.00	\$432.00V																					
		Required: Student Petition.																										
oc		WLD-261-05	343541	T		8-11:50 AM																						
		R. THOMAS		\$260.00	\$26.00	\$146.00	\$432.00V																					
		Required: Student Petition.																										
oc		WLD-261-07	343544	T		6-9:50 PM																						
		J. PHELPS		\$260.00	\$26.00	\$146.00	\$432.00V																					
		Required: Student Petition.																										
oc		WLD-261-08	343545	T		10-11:59 PM																						
		W				12:01 -1:50 AM																						
		K. DRURY		\$260.00	\$26.00	\$146.00	\$432.00V																					
		Required: Student Petition.																										
oc		WLD-261-09	343547	W		8-11:50 AM																						
		R. THOMAS		\$260.00	\$26.00	\$146.00	\$432.00V																					
		Required: Student Petition.																										

Campus Locations:

HAR: Harmony Community Campus
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Distance Education Notification:

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HYB: In-person plus online work

Other Coding Translations:

TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español

LCT: Low-Cost Text
NCT: No-Cost Text

Course Listing

2026/27

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
oc	WLD-261-10 343549 W R. THOMAS					\$260.00	\$26.00	1-4:50 PM	\$146.00	\$432.00V
oc	WLD-261-11 343550 W J. PHELPS					\$260.00	\$26.00	6-9:50 PM	\$146.00	\$432.00V
oc	WLD-261-13 343554 TH R. THOMAS					\$260.00	\$26.00	8-11:50 AM	\$146.00	\$432.00V
Required: Student Petition.										
oc	WLD-261-14 345479 TH B. MULLIGAN					\$260.00	\$26.00	1-4:50 PM	\$146.00	\$432.00V
Required: Student Petition.										
oc	WLD-261-15 343556 TH J. PHELPS					\$260.00	\$26.00	6-9:50 PM	\$146.00	\$432.00V
oc	WLD-261-16 343558 TH F					\$260.00	\$26.00	10-11:59 PM 12:01 -1:50 AM	\$146.00	\$432.00V
oc	WLD-261-19 343564 F M. TIZO					\$260.00	\$26.00	6-9:50 PM	\$146.00	\$432.00V
Required: Student Petition.										
oc	WLD-261-20 343565 S K. DRURY					\$260.00	\$26.00	9-12:50 PM	\$146.00	\$432.00V
Required: Student Petition.										
oc	WLD-261-21 343568 S K. DRURY					\$260.00	\$26.00	2-5:50 PM	\$146.00	\$432.00V
Required: Student Petition.										
oc	WLD-261-23 345481 SU M. TIZO					\$260.00	\$26.00	10-1:50 PM	\$146.00	\$432.00V
Required: Student Petition.										
XWLD-0001	AMERICAN WELDING SOCIETY (WLD) CERTIFICATION 1 PLATE TEST, 0 CREDIT									
Welder certification in accordance with AWS D1.1 for one position for students enrolled in any CCC welding course.										
oc	XWLD-0001-01 343607 TBA B. MULLIGAN					\$0.00	\$0.00		\$140.00	\$140.00
Required: Student Petition.										
XWLD-0002	AMERICAN WELDING SOCIETY CERTIFICATION 2 PLATE OR 1 PIPE TEST, 0 CREDIT									
Welder certification in any two positions, in accordance with AWS D1.1 for students enrolled in any CCC welding course.										
oc	XWLD-0002-01 343608 TBA B. MULLIGAN					\$0.00	\$0.00		\$280.00	\$280.00
Required: Student Petition.										
XWLD-0003	AMERICAN WELDING SOCIETY CERTIFICATION RETAKE TEST, 0 CREDIT									
Welder certification on retest in any position, in accordance with AWS D1.1 for students enrolled in any CCC welding course. Required: Student Petition.										
oc	XWLD-0003-01 343609 TBA B. MULLIGAN					\$0.00	\$0.00		\$25.00	\$25.00
Required: Student Petition.										

Women's Studies

WS-101 INTRODUCTION TO WOMEN'S STUDIES, 4 CREDITS

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
OFF: Other Off-Campus Location

Distance Education Notification:
ONL: Online Only
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HYB: In-person plus online work

Other Coding Translations:
TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text
NCT: No-Cost Text

Examines the history of the representation of women, the history of US feminism and the development of Women's Studies as an academic discipline. Critically explores social issues relevant to women's lives, including gender-expression, marginalization, reproduction, sexuality, economic status and the experience of violence.

Recommended Prerequisites: WRD-098 or placement in WR-121Z

OC NCT	WS-101-01 343563 TTH K. SEVERSON					\$520.00	\$52.00	10-11:50 AM	\$0.00	\$572.00
ONL NCT	WS-101-02 343566 K. SEVERSON					\$520.00	\$52.00		\$0.00	\$572.00

World Languages

ASL-101 FIRST-YEAR AMERICAN SIGN LANGUAGE I, 4 CREDITS

First term of a three-term introductory course. Everyday communication is the centerpiece of each lesson. Topics revolve around sharing information about ourselves and our environment. Grammar is introduced in context, with an emphasis on developing question and answering skills. Strategies are presented to help the student maintain a conversation.

Recommended Prerequisites: WRD-098 or placement in WR-121Z

oc	ASL-101-01 342701 MW A. ELLIS					\$520.00	\$52.00	10-11:50 AM	\$10.00	\$582.00
One-time textbook purchase for ASL-101 - ASL-102.										
ONL	ASL-101-02 342703 A. ELLIS					\$520.00	\$52.00		\$10.00	\$582.00
One-time textbook purchase for ASL-101 - ASL-102.										

ASL-102 FIRST-YEAR AMERICAN SIGN LANGUAGE II, 4 CREDITS

Second term of a three-term introductory course. Emphasis will be on increasing communicative abilities. Course will focus on language functions such as making requests, describing others, and/or telling a short story. Grammar and vocabulary will also be emphasized throughout the course.

Prerequisites: ASL-101 with a C or better

oc	ASL-102-01 342705 MW A. ELLIS					\$520.00	\$52.00	1-2:50 PM	\$10.00	\$582.00
One-time textbook purchase for ASL-101 - ASL-102.										
ONL	ASL-102-02 342706 A. ELLIS					\$520.00	\$52.00		\$10.00	\$582.00
One-time textbook purchase for ASL-101 & ASL-102.										

ASL-202 SECOND-YEAR AMERICAN SIGN LANGUAGE II, 4 CREDITS

Continuation of ASL-201. Emphasizes active communication in sign language. Increased emphasis on exploring, analyzing the rules, and presenting stories and literature in sign language.

Prerequisites: ASL-201 with a C or better

REM	ASL-202-01 342707 TTH A. ELLIS					\$520.00	\$52.00	10-11:50 AM	\$10.00	\$582.00
One-time textbook purchase for ASL-202 - ASL-203.										

FR-102 FIRST-YEAR FRENCH II, 4 CREDITS

Second term of a three-term foundational, multimedia course in beginning French designed to give students basic communicative proficiency in the target language. Students will practice all four skills: listening, speaking, reading, and writing. Special attention will be paid to pronunciation, essential grammar structures, and attendant cultural elements. Student learning is assessed through a variety of guided exercises and assignments, interactive activities, homework, tests and quizzes, and other class projects and participation.

Course No	Course Title, Credits					
Section No Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total

Prerequisites: FR-101

OC NCT	FR-102-01	342998 TTH			10-11:50 AM	
	E. HERNANDEZ		\$520.00	\$52.00	\$10.00	\$582.00

GER-102 FIRST-YEAR GERMAN II, 4 CREDITS

Second term of a three-term foundational sequence in beginning German designed to give students basic communicative proficiency in the target language. Students will practice all four skills: listening, speaking, reading, and writing. Special attention is paid to pronunciation, essential grammar structures, and cross-cultural discussion and analysis.

Prerequisites: GER-101 or Student Petition

OC NCT	GER-102-01	343091 MW			1-2:50 PM	
	T. NIKOLOPOULOS		\$520.00	\$52.00	\$10.00	\$582.00

SPN-101 FIRST-YEAR SPANISH I, 4 CREDITS

First of a three-term foundational, multimedia course for beginners. Initial emphasis is on speaking and listening comprehension, with secondary emphasis on reading and writing. Various cultural themes are presented.

Recommended Prerequisites: WRD-098 or placement in WR-121Z

OC NCT	SPN-101-01	343432 TTH			1-2:50 PM	
	A. METHADZOVIC		\$520.00	\$52.00	\$10.00	\$582.00

ONL NCT	SPN-101-02	343434				
	A. METHADZOVIC		\$520.00	\$52.00	\$10.00	\$582.00

SPN-102 FIRST-YEAR SPANISH II, 4 CREDITS

Second of a three-term foundational, multimedia course for beginners. Initial emphasis is on speaking and listening comprehension, with secondary emphasis on reading and writing. Various cultural themes are presented.

Prerequisites: SPN-101

Recommended Prerequisites: WRD-098 or placement in WR-121Z

OC NCT	SPN-102-01	343436 TTH			10-11:50 AM	
	A. METHADZOVIC		\$520.00	\$52.00	\$10.00	\$582.00

ONL NCT	SPN-102-02	343439				
	E. HERNANDEZ		\$520.00	\$52.00	\$10.00	\$582.00

ONL NCT	SPN-102-03	343440				
	A. METHADZOVIC		\$520.00	\$52.00	\$10.00	\$582.00

SPN-202 SECOND-YEAR SPANISH II, 4 CREDITS

Second of a three-term intermediate, multimedia course. Focus is on speaking, listening comprehension, reading and writing. Explores cultural differences among Spanish-speaking countries and between the latter and European-American culture.

Prerequisites: SPN-201

ONL NCT	SPN-202-01	343442				
	V. SHORT		\$520.00	\$52.00	\$10.00	\$582.00

Writing**WR-101 WORKPLACE WRITING, 4 CREDITS**

Students in this course learn and practice basic modes of technical writing, including summaries, process analysis, instructions, and reports.

Prerequisites: WRD-098 or placement in WR-101 or WR-121Z

OC HYB LCT	WR-101-01	343452 M			3-4:50 PM	
	W. DAWKINS		\$520.00	\$52.00	\$19.00	\$591.00

ONL LCT	WR-101-02	343460				
	L. ORMANDY		\$520.00	\$52.00	\$19.00	\$591.00

WR-121Z COMPOSITION I, 4 CREDITS

Campus Locations:
HAR: Harmony Community Campus
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Distance Education Notification:
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ESPAÑOL: Enseñado en español
LCT: Low-Cost Text
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Course No	Course Title, Credits					
Section No Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total

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.

Prerequisites: WRD-098 or placement in WR-121Z

OC LCT	WR-121Z-01	343461 MW			10-11:50 AM	
	E. WILDER-TACK		\$520.00	\$52.00	\$19.00	\$591.00

OC LCT	WR-121Z-02	343463 MW			10-11:50 AM	
	J. BEREZHNOY		\$520.00	\$52.00	\$19.00	\$591.00

OC LCT	WR-121Z-03	343465 MW			1-2:50 PM	
	S. WARREN		\$520.00	\$52.00	\$19.00	\$591.00

OC LCT	WR-121Z-04	343466 TTH			10-11:50 AM	
	R. DAVIS		\$520.00	\$52.00	\$19.00	\$591.00

OC LCT	WR-121Z-05	343467 TTH			1-2:50 PM	
	J. BEREZHNOY		\$520.00	\$52.00	\$19.00	\$591.00

OC HYB LCT	WR-121Z-06	343468 M			10-11:50 AM	
	C. BURNELL		\$520.00	\$52.00	\$19.00	\$591.00

OC HYB LCT	WR-121Z-07	343469 M			1-2:50 PM	
	C. BURNELL		\$520.00	\$52.00	\$19.00	\$591.00

OC HYB LCT	WR-121Z-08	343470 M			1-2:50 PM	
	J. DAVIS		\$520.00	\$52.00	\$19.00	\$591.00

OC HYB LCT	WR-121Z-09	343471 T			10-11:50 AM	
	S. NIZIOLEK		\$520.00	\$52.00	\$19.00	\$591.00

OC HYB LCT	WR-121Z-10	343472 M			1-2:50 PM	
	W. DAWKINS		\$520.00	\$52.00	\$19.00	\$591.00

ONL LCT	WR-121Z-11	343474				
	M. WARREN		\$520.00	\$52.00	\$19.00	\$591.00

ONL LCT	WR-121Z-12	343475				
	R. DAVIS		\$520.00	\$52.00	\$19.00	\$591.00

ONL LCT	WR-121Z-13	343476				
	T. DODGE		\$520.00	\$52.00	\$19.00	\$591.00

ONL LCT	WR-121Z-14	343478				
	T. DODGE		\$520.00	\$52.00	\$19.00	\$591.00

HAR	WR-121Z-15	343479 TTH			1-2:50 PM	
	J. PETERMAN		\$520.00	\$52.00	\$19.00	\$591.00

HAR HYB	WR-121Z-16	343480 W			6-7:50 PM	
	M. SCHUMACHER		\$520.00	\$52.00	\$19.00	\$591.00

ONL LCT	WR-121Z-17	343481				
	T. DODGE		\$520.00	\$52.00	\$19.00	\$591.00

ONL LCT	WR-121Z-18	343482				
	R. DAVIS		\$520.00	\$52.00	\$19.00	\$591.00

ONL LCT	WR-121Z-19	343483				
	T. DODGE		\$520.00	\$52.00	\$19.00	\$591.00

ONL LCT	WR-121Z-20	343484				
	R. DAVIS		\$520.00	\$52.00	\$19.00	\$591.00

ONL	WR-121Z-21	343487				
	B. EHLERS		\$520.00	\$52.00	\$19.00	\$591.00

WR-122Z COMPOSITION II, 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.

Prerequisites: WR-121Z with a C or better

OC LCT	WR-122Z-01	343491 MW			10-11:50 AM	
	R. MURPHY		\$520.00	\$52.00	\$19.00	\$591.00

OC LCT	WR-122Z-02	343493 MW			1-2:50 PM	
	E. WILDER-TACK		\$520.00	\$52.00	\$19.00	\$591.00

Course Listing

2026/VI

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
OC LCT	WR-122Z-03 343494 TTH	H. DIERDORFF				\$520.00	\$52.00	1-2:50 PM	\$19.00	\$591.00
OC HYB LCT	WR-122Z-04 343495 M	R. MURPHY				\$520.00	\$52.00	1-2:50 PM	\$19.00	\$591.00
OC HYB LCT	WR-122Z-05 343497 T	C. BURNELL				\$520.00	\$52.00	10-11:50 AM	\$19.00	\$591.00
OC HYB LCT	WR-122Z-06 343499 T	S. NIZIOLEK				\$520.00	\$52.00	3-4:50 PM	\$19.00	\$591.00
ONL LCT	WR-122Z-07 343500	M. SCHUMACHER				\$520.00	\$52.00		\$19.00	\$591.00
ONL LCT	WR-122Z-08 343501	S. PESZNECKER				\$520.00	\$52.00		\$19.00	\$591.00
ONL LCT	WR-122Z-09 343502	R. MURPHY				\$520.00	\$52.00		\$19.00	\$591.00
ONL LCT	WR-122Z-10 343504	L. ORMANDY				\$520.00	\$52.00		\$19.00	\$591.00
ONL LCT	WR-122Z-11 347533	J. PETERMAN				\$520.00	\$52.00		\$19.00	\$591.00
HAR HYB	WR-122Z-15 343507 M	M. SCHUMACHER				\$520.00	\$52.00	6-7:50 PM	\$19.00	\$591.00
WR-124ES ESCRITURA DE ENSAYOS DE NIVEL UNIVERSITARIO EN ESPAÑOL, 4 CREDITS										
Este curso involucra a los estudiantes en el estudio y la práctica del pensamiento crítico, la lectura y la escritura. El curso se centra en el análisis y la composición en diversas situaciones retóricas y en múltiples géneros. Los estudiantes aplicarán conceptos retóricos clave de forma flexible y colaborativa en sus procesos de escritura e indagación.										
Required: Estudiantes deben leer y escribir a nivel universitario, en Español, antes de comenzar el curso										
Prerequisites: WRD-098ES o tener un nivel de evaluación de WR-124ES										
Recommended Prerequisite or Corequisite: FYE-101ES										
REM ESPAÑOL	WR-124ES-01 343508 T	A. ENCINAS				\$520.00	\$52.00	6-7:50 PM	\$19.00	\$591.00
WR-127 SCHOLARSHIP ESSAY WRITING, 1 CREDIT										
Introduces scholarship resources and the application process. Examines and applies the concept of 'telling the story of me,' and drafting, revising, and editing a complete scholarship application essay.										
ONL LCT	WR-127-01 343509	A. ENCINAS				\$130.00	\$13.00		\$19.00	\$162.00
WR-227Z TECHNICAL WRITING, 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.										
Prerequisites: WR-121Z with a C or better										
OC LCT	WR-227Z-01 343514 TTH	J. PETERMAN				\$520.00	\$52.00	10-11:50 AM	\$19.00	\$591.00
OC HYB LCT	WR-227Z-02 343517 M	S. WARREN				\$520.00	\$52.00	3-4:50 PM	\$19.00	\$591.00
ONL LCT	WR-227Z-03 343518	B. FOSTER				\$520.00	\$52.00		\$19.00	\$591.00
ONL LCT	WR-227Z-04 343519	J. MCALPINE				\$520.00	\$52.00		\$19.00	\$591.00
ONL LCT	WR-227Z-05 343521	J. MCALPINE				\$520.00	\$52.00		\$19.00	\$591.00
HAR HYB	WR-227Z-15 343524 M	S. WARREN				\$520.00	\$52.00	6-7:50 PM	\$19.00	\$591.00
WR-241 FICTION WRITING I, 4 CREDITS										
Introduction to the theory, art and creative practice of fiction writing, with specific emphasis on short prose forms.										
Prerequisites: WRD-098 or placement in WR-121Z										
OC HYB LCT	WR-241-01 343525 T	N. ROSEVEAR				\$520.00	\$52.00	1-2:50 PM	\$19.00	\$591.00
WR-242 POETRY WRITING I, 4 CREDITS										
Provides the basic skills for writing and revising poems following contemporary trends in form and content; provides a supportive environment and the critical abilities to read and discuss poems confidently.										
Prerequisites: WRD-098 or placement in WR-121Z										
OC LCT	WR-242-01 343527 MW	A. COFFEY				\$520.00	\$52.00	1-2:50 PM	\$19.00	\$591.00
WR-245 POETRY WRITING II, 4 CREDITS										
For students with writing experience who wish to learn advanced techniques of writing poetry, including developing voice and style and exploring publishing.										
Prerequisites: WR-242										
OC LCT	WR-245-01 347534 MW	A. COFFEY				\$520.00	\$52.00	1-2:50 PM	\$19.00	\$591.00
WR-248 PUBLISHING LITERATURE: EDITING AND MARKETING FOR PUBLICATION, 4 CREDITS										
For students with an interest in creative writing and/or literary journal publication who wish to develop publishing skills. Students work collaboratively to copyedit manuscripts for publication and create marketing materials for an award-winning literary journal featuring poetry and short fiction from local and international authors. May be repeated for up to 8 credits.										
Prerequisites: WRD-098 or placement in WR-121Z										
OC LCT	WR-248-01 347535 TTH	M. WARREN				\$520.00	\$52.00	10-11:50 AM	\$60.00	\$632.00
WR-265 DIGITAL STORYTELLING, 4 CREDITS										
Digital Storytelling is a contemporary expression of the ancient art of storytelling. In this class students will write and create unique digital first person narratives using cloud-based editing tools, photographic and film images, music, and voice. Students will further become active participants in both local and global communities of storytellers.										
Recommended Prerequisites: WRD-098 or placement in WR-121Z										
OC	WR-265-01 345554 MW	A. COFFEY				\$520.00	\$52.00	10-11:50 AM	\$40.00	\$612.00
WRD-090 INTRODUCTORY COLLEGE READING & WRITING 1, 4 CREDITS										
Students discuss a variety of short, pre-college-level readings, and learn a process for developing their own paragraphs and very short essays (up to two pages). Other topics include becoming an independent reader, summarizing, and writing academically.										
Prerequisites: Placement in WRD-090										
OC LCT	WRD-090-01 343530 MW	W. DAWKINS				\$520.00	\$52.00	10-11:50 AM	\$19.00	\$591.00

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
OFF: Other Off-Campus Location

Distance Education Notification:
ONL: Online Only
REM: Remote (w/ scheduled meetings)
HYB: In-person plus online work

Other Coding Translations:
TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text
NCT: No-Cost Text

Course Listing

2026/WI

Course No	Course Title, Credits		Days (M,T,W,Th,F,S,SU)	Time	Total		Course No	Course Title, Credits		Days (M,T,W,Th,F,S,SU)	Time	Total
	Section No	Crs Reg.						Section No	Crs Reg.			
ONL LCT	WRD-090-02	343532					OC	Z-202L-01	343611	W	1-3:50 PM	
	A. WARREN		\$520.00	\$52.00	\$19.00	\$591.00		J. BOWN		\$0.00	\$0.00	\$0.00

WRD-098 INTRODUCTORY COLLEGE READING & WRITING 2, 4 CREDITS

Preparation for writing in college-level courses. Students discuss a variety of early-college-level readings, and develop and refine their own essays (up to three pages) through a process of revision and multiple drafts. Other topics include becoming a confident reader, finding and using information, and giving credit to sources through informal citations.

Prerequisites: WRD-090 or placement in WRD-098

OC LCT	WRD-098-01	343535	TTH				10-11:50 AM
	H. DIERDORFF		\$520.00	\$52.00	\$19.00	\$591.00	
OC LCT	WRD-098-02	343540	MW				10-11:50 AM
	J. DAVIS		\$520.00	\$52.00	\$19.00	\$591.00	
ONL LCT	WRD-098-03	343546					
	M. WARREN		\$520.00	\$52.00	\$19.00	\$591.00	
ONL LCT	WRD-098-04	343551					
	M. WARREN		\$520.00	\$52.00	\$19.00	\$591.00	
HAR	WRD-098-15	343562	MW				10-11:50 AM
	J. PONS		\$520.00	\$52.00	\$19.00	\$591.00	

WRD-098ES INTRODUCCIÓN A LA LECTURA Y ESCRITURA DE NIVEL UNIVERSITARIO 2, 4 CREDITS

Preparación para la escritura a nivel de cursos universitarios. El alumnado dialogará sobre una variedad de lecturas, en español, a nivel introductorio o pre-universitario, desarrollarán y perfeccionarán sus ensayos (máximo de tres páginas) por medio del proceso de revisión y múltiples bosquejos. Otros temas incluyen: tener confianza como lector, buscar y encontrar información, y citar las fuentes por medio de citas informales.

Prerequisites: Tener un nivel de evaluación de WRD-098ES

REM ESPAÑOL	WRD-098ES-01	347537	W				6-7:50 PM
	A. ENCINAS		\$520.00	\$52.00	\$19.00	\$591.00	

XWR-0001 CHRYSALIS WOMEN WRITERS, 0 CREDIT

This club is for CCC students and non-students to support the creation of, practice of, and critique of creative writing. An honest and supportive critique group, welcomes both new and established women writers. Newcomers are welcome to attend without reading their own work until they are comfortable doing so. This workshop is led by local author Patricia Lichen.

OC HYB LCT	XWR-0001-01	343574	W				12-1:50 PM
	P. LICHEN		\$0.00	\$0.00	\$0.00	\$0.00	

Zoology

Z-202 GENERAL ZOOLOGY, 4 CREDITS

A lecture and lab course covering the maintenance of the cellular, tissue, and organ levels of invertebrates, evolution of animal systems and the diversity of the invertebrate animal phyla.

Prerequisites: MTH-095 with a C or better or placement in MTH-111Z

Corequisites: Z-202L

Recommended Prerequisites: WRD-098 or placement in WR-121Z

OC	Z-202-01	343610	MW				10:30 -11:50 AM
	J. BOWN		\$520.00	\$52.00	\$55.00	\$627.00	

Z-202L GENERAL ZOOLOGY LAB, 0 CREDIT

Lab course for Z-202

Corequisites: Z-202

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COMMUNITY EDUCATION

Please register directly through the Community Education partner hosting the class you would like to attend.

Build confidence in tech usage

CCC's Community Education continues to offer low-cost, beginner-friendly computer classes designed to help adults build confidence in using technology for everyday life. Held at the Harmony campus, these non-credit courses are perfect for those new to computers or looking to strengthen digital literacy. Basic Computer Skills covers essentials like using a mouse and keyboard, opening and saving files, and browsing the internet safely. Internet Basics focuses on navigating the web, using search engines, and understanding online safety. For Spanish-speaking learners, Habilidades de informática básicas provides the same foundational instruction in Spanish, with clear, step-by-step guidance and hands-on practice in a computer lab. New for winter 2026 will be Conceptos básicos de Internet for Spanish speakers. The cost for each class is \$35 and requires no prior experience.

Winter 2026 registration begins Nov. 17.
Register today at www.clackamas.edu/academics/community-education.

BASIC COMPUTER SKILLS

Tuesday 11:45 a.m.-12:45 p.m.

INTERNET BASICS

Tuesday 1-2 p.m.

HABILIDADES DE INFORMÁTICA BÁSICAS

Saturday 9-10 a.m.

CONCEPTOS BÁSICOS DE INTERNET

Saturday 10:30-11:30 a.m.

For help or more information in English, call 503-594-0627; for Spanish assistance, call 503-594-0620.



Community Education strives to be a low-cost option for the district, with partners in many locations. If you would like to suggest a class please visit our website at www.clackamas.edu/suggest-a-community-ed-class.

CANBY

Bridging Cultures

503-592-3781 | www.bridgingculturescanby.org

GLADSTONE

Gladstone Community School

503-650-2570 | www.clackamas.edu/gladstone

MILWAUKIE

Milwaukie Community Center

503-794-8092 | www.ncprd.com

North Clackamas Parks and Recreation

503-794-8080, ext. 0 | www.ncprd.com

OREGON CITY

Oregon City Community Education

503-785-8520 | <https://ocsd62occe.org>

Oregon City Swimming Pool

503-657-8273 | www.orcity.org/904/Aquatics

Pioneer Community Center

503-657-8287 | www.orcity.org/499/Pioneer-Community-Center

TEAM OREGON

Motorcycle/Scooter Safety Training

800-545-9944 | www.team-oregon.org

WEST LINN

West Linn Parks and Recreation

503-557-4700 | www.westlinnoregon.gov/parksrec

WILSONVILLE

City of Wilsonville Parks and Recreation

503-783-PLAY | www.wilsonvilleparksandrec.com/parksrec

West Linn/Wilsonville Family Empowerment Center

503-673-7690 | www.wlww.k12.or.us/domain/3726

Senior Discount

Seniors 62 years of age or older qualify for discounted tuition for many Community Education classes. Proof of age is required.