

Schedule

60th  Clackamas
Community College



Fall term classes begin September 28 • 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 *	FALL 2026	WINTER 2027	SPRING TERM 2027
Financial aid: All required CCC financial aid documentation due to ensure funding for term	June 22	September 28	Jan. 4
Registration begins	May 18	November 16	Feb. 22
Classes begin	Sept. 28	January 4	March 29
Last day to add classes without instructor consent	Instructor consent required once course begins		
Last day to drop a class with a refund (see p. 5 for more info)	Oct. 11	Jan. 17	April 11
Last day to drop classes and receive a "W" automatically	Nov. 20	Feb. 26	May 21
Last day to submit petition for graduation	Nov. 6	Feb. 12	May 7
Last day to change grading option	Dec. 4	March 12	June 4
Account balance due: \$100 non-payment fee applied if not paid	Nov. 6	Feb. 12	May 7
Final week	Dec. 7-11	March 15-20	June 7-12
Last day of term	Dec. 12	March 20	June 12
Commencement: GED & Adult High School Diploma / College Certificate and Degree	Friday evening, June 11, 2027		

* 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
FALL TERM: Nov. 11 Veterans Day, Nov. 26-27 Thanksgiving, Dec. 24-25 Winter Holiday
WINTER TERM: Jan. 1 New Years Day, Jan. 18 MLK Jr. Day, Feb. 15 Presidents Day
SPRING TERM: May 31 Memorial Day

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 Fall 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-231LZ	HUMAN ANATOMY AND PHYSIOLOGY I LAB	0 CREDIT
BI-231Z	HUMAN ANATOMY AND PHYSIOLOGY I	4 CREDITS

Chemistry

CH-112Z	CHEMISTRY FOR HEALTH PROFESSIONS	4 CREDITS
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Communication Studies

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

Criminal Justice

CJA-101	CRIMINOLOGY	4 CREDITS
CJA-110	INTRODUCTION TO LAW ENFORCEMENT	3 CREDITS
CJA-122	CRIMINAL LAW	4 CREDITS
CJA-206	TRAUMA INFORMED PRACTICES	3 CREDITS
CJA-210	CRIMINAL INVESTIGATIONS	3 CREDITS
CJA-214	INTIMATE PARTNER VIOLENCE	3 CREDITS
CJA-223	CRIMINAL JUSTICE ETHICS	3 CREDITS
CJA-252	INTRODUCTION TO RESTORATIVE JUSTICE	3 CREDITS
CJA-280	CRIMINAL JUSTICE/CORRECTIONS/CWE	2-6 CREDITS

Dental Assistant

DA-101	DENTAL RADIOLOGY I	2 CREDITS
DA-101L	DENTAL RADIOLOGY I LAB	1 CREDIT
DA-104	CLINICAL PROCEDURES I	2 CREDITS
DA-104L	CLINICAL PROCEDURES I LAB	1 CREDIT

DA-107	DENTAL MATERIALS I	2 CREDITS
DA-107L	DENTAL MATERIALS I LAB	1 CREDIT
DA-110	CLINICAL PRACTICUM I	1 CREDIT
DA-115	DENTAL SCIENCE	2 CREDITS
DA-125	DENTAL INFECTION CONTROL	2 CREDITS

Emergency Medical Technology

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

English for Speakers of Other Languages

ESOL-012	BEGINNING ESOL	0 CREDIT
ESOL-013	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-032	INTERMEDIATE CONVERSATION 1	0 CREDIT
ESOL-034	INTERMEDIATE READING & WRITING	0 CREDIT
ESOL-042	UPPER INTERMEDIATE CONVERSATION 1	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-052	ADVANCED COMMUNICATION SKILLS 1	0 CREDIT
ESOL-054	ADVANCED READING & WRITING	0 CREDIT
ESOL-082	ASSESS/EVALUATE NEW STUDENTS	0 CREDIT
ESOL-083	EDUCATIONAL PLANNING FOR RETURNING STUDENTS	0 CREDIT

Environmental Science

ESR-171	INTRODUCTION TO ENVIRONMENTAL SCIENCE	4 CREDITS
ESR-171L	INTRODUCTION TO ENVIRONMENTAL SCIENCE 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-101	GENERAL GEOLOGY	4 CREDITS
G-101L	GENERAL GEOLOGY LAB	0 CREDIT
G-201	GENERAL GEOLOGY	4 CREDITS
G-201L	GENERAL GEOLOGY LAB	0 CREDIT

Gerontology

GRN-181	ISSUES IN AGING	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-120	INTRODUCTION TO HEALTH SCIENCES	3 CREDITS

Human Services

HS-206	TRAUMA INFORMED PRACTICES	3 CREDITS
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Mathematics

MTH-060	ALGEBRA I	4 CREDITS
MTH-065	ALGEBRA II	4 CREDITS
MTH-095	ALGEBRA III	4 CREDITS
MTH-111Z	PRECALCULUS I: FUNCTIONS	4 CREDITS

Medical Assistant

MA-150	MEDICAL OFFICE PRACTICES	4 CREDITS
MA-152	EXAMINATION ROOM TECHNIQUES I	3 CREDITS
MA-152L	EXAMINATION ROOM TECHNIQUES I LAB	1 CREDIT
MA-154	BODY SYSTEMS AND PHARMACOLOGY	4 CREDITS
MA-158	SEMINAR I	2 CREDITS

Nursing

NRS-110	FOUNDATIONS OF NURSING - HEALTH PROMOTION	6 CREDITS
NRS-110C	FOUNDATIONS OF NURSING - HEALTH PROMOTION CLINICAL	3 CREDITS
NRS-222	NURSING IN ACUTE CARE II & END OF LIFE	4 CREDITS
NRS-222C	NURSING IN ACUTE CARE II & END OF LIFE CLINICAL	5 CREDITS
NRS-230	CLINICAL PHARMACOLOGY I	3 CREDITS
NUR-100	NURSING ASSISTANT I	6.5 CREDITS
NUR-100C	NURSING ASSISTANT I CLINICAL	0 CREDIT

Phlebotomy

PHB-110	FUNDAMENTALS OF PHLEBOTOMY	5 CREDITS
PHB-112	PHLEBOTOMY TECHNIQUES	2 CREDITS
PHB-115	PROFESSIONALISM FOR PHLEBOTOMISTS	1 CREDIT

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-021	STRATEGIC MANAGEMENT	0 CREDIT
SBM-028	CONTRACTOR ESSENTIALS MANAGEMENT	0 CREDIT
SBM-028A	CONTRACTOR ESSENTIALS MANAGEMENT - PART 1	0 CREDIT
SBM-029	NEXT LEVEL CONTRACTING: ADVANCED BUSINESS STRATEGIES	0 CREDIT
SBM-029A	NEXT LEVEL CONTRACTING: ADVANCED BUSINESS STRATEGIES - PART 1	0 CREDIT
SBM-030	PROFITABILITY & RESILIENCY SMALL BUSINESS MANAGEMENT	0 CREDIT
SBM-031	SCOREBOARDS IN BUSINESS	0 CREDIT
SBM-031A	SCOREBOARDS IN BUSINESS - PART 1	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-0024	CONSTRUCTION BUSINESS FUNDAMENTALS: ACCURATE ESTIMATING & FINANCIAL RECORDS	0 CREDIT
XSBM-0025	LCB PREP CLASS AND EXAM	0 CREDIT
XSBM-0026	EXIT SMART: RETIRING WITH SELLING & SUCCESSION STRATEGIES	0 CREDIT

Writing

WR-121Z	COMPOSITION I	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 Fall 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. Variable Hours: 40-88 hours. Required: Student Petition.

OC NCT	ABE-012-07	349042	MTWTH	10-11:50 AM		
	D. GREEN		\$0.00	\$0.00	\$60.00	\$60.00
	Required: Student Petition.					

American Sign Language

See World Languages

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 hominins, and the role of the biological anthropologist in forensic science.

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

OC NCT	ANT-101-01	349045	TTH	1-2:50 PM		
	K. BACA		\$544.00	\$56.00	\$0.00	\$600.00

ANT-102 ARCHAEOLOGY & PREHISTORY, 4 CREDITS

Introduces the methods and theories used by archaeologists to study the development of human cultures. Provides a survey of world prehistory, tracing the transition of human societies from hunting and gathering to farming, to the beginning of urban life and the rise of early civilizations.

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

OC NCT	ANT-102-01	349047	TTH	10-11:50 AM		
	K. BACA		\$544.00	\$56.00	\$0.00	\$600.00
ONL NCT	ANT-102-02	349049				
	K. BACA		\$544.00	\$56.00	\$0.00	\$600.00

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

ONL NCT	ANT-103-01	349050				
	K. BACA		\$544.00	\$56.00	\$0.00	\$600.00

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

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

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	ANT-280-01	349053				
	K. BACA		\$816.00	\$84.00	\$45.00	\$945.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

Art

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 NCT	ART-101-01	349233				
	C. SIEGFRIED		\$408.00	\$42.00	\$0.00	\$450.00

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 NCT	ART-115-01	349234	MW	1-3:50 PM		
	C. SIEGFRIED		\$544.00	\$56.00	\$80.00	\$680.00
OC NCT	ART-115-02	349238	TTH	1-3:50 PM		
	R. KALMAN		\$544.00	\$56.00	\$80.00	\$680.00

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 NCT	ART-119-01	349243				
	K. SIMMONS		\$544.00	\$56.00	\$80.00	\$680.00
	Required: Pick up supplies on campus 10/2, 10:00-12:00pm.					

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 NCT	ART-131-01	349245				
	A. SCHROER		\$544.00	\$56.00	\$80.00	\$680.00
	Required: Pick up supplies on campus 10/1, 10:00-12:00pm.					
OC NCT	ART-131-02	349251	MW	9-11:50 AM		
	R. KALMAN		\$544.00	\$56.00	\$80.00	\$680.00
OC NCT	ART-131-03	349255	MW	1-3:50 PM		
	R. KALMAN		\$544.00	\$56.00	\$80.00	\$680.00
ONL NCT	ART-131-04	349256				
	A. SCHROER		\$544.00	\$56.00	\$80.00	\$680.00
	Required: Pick up supplies on campus 10/1, 10:00-12:00pm.					

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Crs. Fee	Total
ART-161	PHOTOGRAPHY I, 4 CREDITS								
Introduction to basic camera operation and basic darkroom processes in developing and printing film. Elements of composition, content, and historical reference will be explored.									
Required: Access to a 35mm black and white camera with adjustable exposure controls (no digital cameras)									
OC NCT	ART-161-01	349257 TTH			1-3:50 PM				
	C. GIFFEN		\$544.00	\$56.00	\$150.00	\$750.00			
ART-162	PHOTOGRAPHY II, 4 CREDITS								
This course is the second of a sequence of three darkroom photography courses. This course explores camera operation and darkroom processes in developing and printing film. Photography II explores the photo processes and elements of composition, content, and historical/contemporary references at an intermediate level.									
Prerequisites: ART-161									
Required: Access to a 35mm black and white camera with adjustable exposure controls (no digital cameras)									
OC NCT	ART-162-01	349260 TTH			1-3:50 PM				
	C. GIFFEN		\$544.00	\$56.00	\$150.00	\$750.00			
ART-204	HISTORY OF ART/ANCIENT THROUGH MEDIEVAL, 4 CREDITS								
Examines art, cultures, and history from the Paleolithic era through the early Medieval eras. 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 NCT	ART-204-01	348816							
	J. SIMONE		\$544.00	\$56.00	\$0.00	\$600.00			
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 NCT	ART-250-01	349262 TTH			9-11:50 AM				
	N. BRODNICKI		\$544.00	\$56.00	\$95.00	\$695.00			
OC NCT	ART-250-02	349268 TTH			1-3:50 PM				
	N. BRODNICKI		\$544.00	\$56.00	\$95.00	\$695.00			
OC NCT	ART-250-03	349270 TTH			6-8:50 PM				
	N. WARRENS		\$544.00	\$56.00	\$95.00	\$695.00			
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 or ART-252, or Student Petition									
OC NCT	ART-253-01	349274 TTH			9-11:50 AM				
	N. BRODNICKI		\$544.00	\$56.00	\$95.00	\$695.00			
OC NCT	ART-253-02	349275 TTH			1-3:50 PM				
	N. BRODNICKI		\$544.00	\$56.00	\$95.00	\$695.00			
OC NCT	ART-253-03	349277 TTH			6-8:50 PM				
	N. WARRENS		\$544.00	\$56.00	\$95.00	\$695.00			
ART-257	METALSMITHING/JEWELRY, 4 CREDITS								
Students will learn basic techniques and processes of metalsmithing, such as sawing, cold connection, soldering, metal inlay, fabrication, forming, surface treatments, and casting. Students will examine and research different cultural and historical small metals and jewelry forms. The focus of this class is the creation of small metal forms. Critiques, discussions and presentations are included in this course.									
OC NCT	ART-257-01	349279 TTH			1-3:50 PM				
	J. IJIMA		\$544.00	\$56.00	\$80.00	\$680.00			
ART-258	METALSMITHING/JEWELRY: INTERMEDIATE, 4 CREDITS								
This course continues the study of applied design principles in metalsmithing and jewelry-making, with an emphasis on creating original designs. Students will learn more advanced technical processes and engage in discussions about the relationship between jewelry/art metal and different fields. Students who aspire to pursue a career in the jewelry and metalsmithing trades will receive practical guidelines to help them achieve their goals.									
Prerequisites: ART-257									
OC NCT	ART-258-01	349284 TTH			1-3:50 PM				
	J. IJIMA		\$544.00	\$56.00	\$80.00	\$680.00			
ART-261	PHOTOGRAPHY III, 4 CREDITS								
This course is the third of a sequence of three darkroom photography courses. This course explores camera operation and darkroom processes in developing and printing film. Photography III explores the photo processes and elements of composition, content, and historical/contemporary references at an advanced level.									
Prerequisites: ART-161 and ART-162									
Required: Access to a 35mm black and white camera with adjustable exposure controls (no digital cameras)									
OC NCT	ART-261-01	349286 TTH			1-3:50 PM				
	C. GIFFEN		\$544.00	\$56.00	\$80.00	\$680.00			
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									
OC NCT	ART-262-01	349287 TTH			9-11:50 AM				
	D. OLSEN		\$544.00	\$56.00	\$80.00	\$680.00			
ONL NCT	ART-262-02	349292							
	S. ELIOT		\$544.00	\$56.00	\$80.00	\$680.00			
	Adobe Photoshop is used.								
ART-281	PAINTING: STILL LIFE/BEGINNING, 4 CREDITS								
Introduces basic painting tools, materials, techniques, and elements of composition, color, value, and space. Projects involve observational painting with a focus on Still Life and its relationship to volume and form on a two-dimensional plane. Course includes painting, readings and group critiques.									
Prerequisites: ART-131 or Student Petition									
OC NCT	ART-281-01	349294 TTH			9-11:50 AM				
	D. ANDERSEN		\$544.00	\$56.00	\$110.00	\$710.00			
ART-284	PAINTING: STILL LIFE/INTERMEDIATE, 4 CREDITS								

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 Listing

2026/FA

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

Learn intermediate painting tools, materials, techniques, and elements of composition, color, value and space. Projects involve observational painting with a focus on Still Life and its relationship to volume and form on a two-dimensional plane. Course includes painting, readings and group critiques.

Prerequisites: ART-281 or Student Petition

OC NCT	ART-284-01	349296 TTH			9-11:50 AM	
	D. ANDERSEN		\$544.00	\$56.00	\$110.00	\$710.00

ART-291 SCULPTURE, 4 CREDITS

Introduction to the processes and concepts of sculpture; the elements of form and space will be explored. Clay, plaster, mold making, carving, and assemblage will be introduced. Reference to historical and aesthetic content will be presented.

OC NCT	ART-291-01	349298 MW			1-3:50 PM	
	K. SIMMONS		\$544.00	\$56.00	\$80.00	\$680.00

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 NCT	AB-112-01	349143 F			8-12:20 PM	
	C. DAHLSTRUD- RIVERA J. PHELPS		\$272.00	\$28.00	\$230.00	\$530.00

AB-113 COLLISION REPAIR I/NONSTRUCTURAL, 6 CREDITS

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 NCT	AB-113-01	349144 MT			7-12:20 PM	
	M. GRIFFITH M. HOUSE		\$816.00	\$84.00	\$337.00	\$1,237.00

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 NCT	AB-123-01	349148 F			8-12:20 PM	
	C. DAHLSTRUD- RIVERA J. PHELPS		\$272.00	\$28.00	\$158.00	\$458.00

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

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:
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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

OC NCT	AB-133-01	349149 MT			7-12:20 PM	
	M. GRIFFITH M. HOUSE		\$816.00	\$84.00	\$337.00	\$1,237.00

AB-149 COLLISION REPAIR ESTIMATING I, 2 CREDITS

This course provides instruction in procedure and terminology used in the collision repair estimating field. Body part component identification and the effects of a collision on a vehicle will be studied.

OC NCT	AB-149-01	349151 M			1:30 -3:50 PM	
	A. YAGER-ROUNDS		\$272.00	\$28.00	\$123.00	\$423.00

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 NCT	AB-222-01	349153 MT			7-12:20 PM	
	M. GRIFFITH M. HOUSE		\$816.00	\$84.00	\$337.00	\$1,237.00

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 NCT	AB-224-01	349157 MT			7-12:20 PM	
	M. GRIFFITH M. HOUSE		\$816.00	\$84.00	\$337.00	\$1,237.00

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 NCT	AB-226-01	349159 MT			7-12:20 PM	
	M. GRIFFITH M. HOUSE		\$816.00	\$84.00	\$337.00	\$1,237.00

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 NCT	AB-235-01	349161 F			8-12:20 PM	
	C. DAHLSTRUD- RIVERA J. PHELPS		\$272.00	\$28.00	\$170.00	\$470.00

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 NCT	AB-280-01	349163				
	M. HOUSE		\$816.00	\$84.00	\$45.00	\$945.00V
Required: Student Petition. Corequisite: Take the following CWE-281-06.						

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

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 NCT	ABR-125-01	349166	WTH	7-12:20 PM			
	M. GRIFFITH	\$816.00	\$84.00	\$337.00	\$1,237.00		
	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 NCT	ABR-127-01	349171	WTH	7-12:20 PM			
	M. GRIFFITH	\$816.00	\$84.00	\$337.00	\$1,237.00		
	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 NCT	ABR-129-01	349175	WTH	7-12:20 PM			
	M. GRIFFITH	\$816.00	\$84.00	\$337.00	\$1,237.00		
	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.

Prerequisites: ABR-129

OC NCT	ABR-225-01	349176	WTH	7-12:20 PM			
	M. GRIFFITH	\$816.00	\$84.00	\$337.00	\$1,237.00		
	M. HOUSE						

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 NCT	ABR-227-01	349178	WTH	7-12:20 PM			
	M. GRIFFITH	\$816.00	\$84.00	\$337.00	\$1,237.00		
	M. HOUSE						

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.

Campus Locations:
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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		

Corequisites: AM-129 and AM-130

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

oc	AM-101-01	349189	MTWTHF	1-5:50 PM			
	N. ROBERTS	\$272.00	\$28.00	\$22.00	\$322.00		
	Meets: 9/28-10/2.						

AM-129 ELECTRICAL SYSTEMS I, 5 CREDITS

This course is designed to provide students with the entry-level skills necessary to repair automobile electrical systems. Students will learn about general electrical systems diagnosis; servicing and repair of batteries, starting systems, and charging systems.

Prerequisite or Corequisite: AM-101 with a C or better

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

Recommended Corequisite: AM-130

oc	AM-129-01	349210	MTWTH	1-5:50 PM			
	TBA	\$680.00	\$70.00	\$211.00	\$961.00		
	Meets: 10/5-11/5.						

oc	AM-129-02	349215	MTWTH	1-5:50 PM			
	TBA	\$680.00	\$70.00	\$211.00	\$961.00		
	Meets: 11/9-12/10.						

AM-130 BRAKE SYSTEMS, 5 CREDITS

In this theory and lab course students will learn about the construction and operation of basic hydraulics, brake fluids, friction materials, seals, disc and drum brakes, hydraulic and vacuum brake boosters systems. Students will also learn to service and repair automotive brake systems.

Prerequisite or Corequisite: AM-101 with a C or better

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

Recommended Corequisite: AM-129

oc	AM-130-01	349216	MTWTH	1-5:50 PM			
	W. VAN RIPER	\$680.00	\$70.00	\$211.00	\$961.00		
	Meets: 10/5-11/5.						

oc	AM-130-02	349217	MTWTH	1-5:50 PM			
	W. VAN RIPER	\$680.00	\$70.00	\$211.00	\$961.00		
	Meets: 11/9-12/10.						

AM-201 AUTOMOTIVE INTERNSHIP, 3 CREDITS

Students will be completing a portfolio project to present to companies in the automotive industry. Students will learn best practices for interview preparedness and resume development. There will be a scheduled interview day with partners in industry to help place students in the workforce for internship. Students will prepare for Auto Service Excellence (ASE) certification tests.

Prerequisites: AM-101

oc	AM-201-01	349218	F	7-12:20 PM			
	N. ROBERTS	\$408.00	\$42.00	\$5.00	\$455.00		
	Meets: 10/2-11/6.						

AM-224 COMFORT SYSTEMS, 5 CREDITS

In this course, students will learn design, construction, testing, maintenance, and repair of automotive heating and air conditioning systems. Prepares a student to take the Section 609 Environmental Protection Agency certification test.

Prerequisites: AM-129

oc	AM-224-01	349219	MTWTH	7-11:50 AM			
	D. BLACKMON	\$680.00	\$70.00	\$134.00	\$884.00		
	Meets: 9/28-10/29.						

Course Listing

2026/FA

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-224-02 349224 MTWTH D. BLACKMON Meets: 11/2-12/3.					\$680.00	\$70.00	7-11:50 AM	\$134.00	\$884.00
AM-229 ELECTRICAL SYSTEMS II, 5 CREDITS In this course students will learn fundamentals of electronics, diagnosis, and repair of general electrical including, lighting systems, instrument cluster and driver information systems, and body electrical systems. Prerequisites: AM-129										
OC	AM-229-01 349225 MTWTH N. ROBERTS Meets: 9/28-10/29.					\$680.00	\$70.00	7-11:50 AM	\$211.00	\$961.00
OC	AM-229-02 349226 MTWTH N. ROBERTS Meets: 11/2-12/3.					\$680.00	\$70.00	7-11:50 AM	\$211.00	\$961.00
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 NCT	AM-280-01 349228 N. ROBERTS Required: Student Petition. Corequisite: Take the following CWE-281-06.					\$816.00	\$84.00		\$45.00	\$945.00V
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	BI-101-01 349308 MW E. DEBEY Corequisite: Take 1 of the following BI-101L-01, BI-101L-02.					\$544.00	\$56.00	1-2:20 PM	\$55.00	\$655.00
OC	BI-101-02 349310 TTH E. DEBEY Corequisite: Take 1 of the following BI-101L-01, BI-101L-02.					\$544.00	\$56.00	9-10:20 AM	\$55.00	\$655.00
ONL	BI-101-40 349314 E. DEBEY Corequisite: Take the following BI-101L-40.					\$544.00	\$56.00		\$55.00	\$655.00
ONL	BI-101-41 349316 T. BLACKWELL Corequisite: Take the following BI-101L-41.					\$544.00	\$56.00		\$55.00	\$655.00
BI-101L GENERAL BIOLOGY; CELLULAR BIOLOGY LAB, 0 CREDIT Lab course for BI-101 Corequisites: BI-101										
OC	BI-101L-01 349318 MW E. DEBEY Corequisite: Take 1 of the following BI-101-01, BI-101-02.					\$0.00	\$0.00	2:30 -3:50 PM	\$0.00	\$0.00
OC	BI-101L-02 349321 TTH E. DEBEY Corequisite: Take 1 of the following BI-101-01, BI-101-02.					\$0.00	\$0.00	10:30 -11:50 AM	\$0.00	\$0.00
BI-101L-40 349326 E. DEBEY Corequisite: Take the following BI-101-40.										
BI-101L-41 349328 T. BLACKWELL Corequisite: Take the following BI-101-41.										
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										
ONL	BI-102-40 349330 S. SOLL					\$544.00	\$56.00		\$55.00	\$655.00
BI-102L GENERAL BIOLOGY; ANIMAL SYSTEMS LAB, 0 CREDIT Lab course for BI-102 Corequisites: BI-102										
ONL	BI-102L-40 349333 S. SOLL					\$0.00	\$0.00		\$0.00	\$0.00
BI-103 GENERAL BIOLOGY; PLANTS & THE ECOSYSTEM, 4 CREDITS An inquiry-based laboratory course focusing on plants and the ecosystem; including plant identification, population dynamics, productivity and energy flow. Activities include an integrated approach to understanding environmental issues and the impact of humans on the biosphere. The class uses student centered activities in a collaborative learning environment to enhance appreciation of the biological world. Corequisites: BI-103L Recommended Prerequisites: MTH-060 or MTH-098 or placement in MTH-065; and WRD-098 or placement in WR-121Z										
ONL	BI-103-40 349337 S. SOLL					\$544.00	\$56.00		\$55.00	\$655.00
BI-103L GENERAL BIOLOGY; PLANTS & THE ECOSYSTEM LAB, 0 CREDIT Lab course for BI-103 Corequisites: BI-103										
ONL	BI-103L-40 349341 N. SEFCIKOVA					\$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-231Z and BI-234. Corequisites: BI-112L Recommended Corequisite: CH-112Z Recommended Prerequisites: MTH-060 or MTH-098 or placement in MTH-065, and WRD-098 or placement in WR-121Z										
OC	BI-112-01 349342 TTH J. BOWN Corequisite: Take 1 of the following BI-112L-01, BI-112L-02.					\$544.00	\$56.00	11-12:20 PM	\$55.00	\$655.00

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Course Listing

2026/FA

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-112-15 349344 MW 9-10:20 AM P. JONES \$544.00 \$56.00 \$55.00 \$655.00 Corequisite: Take the following BI-112L-15.									
ONL	BI-112-40 349346 K. OSTLUND \$544.00 \$56.00 \$55.00 \$655.00 Corequisite: Take 1 of the following BI-112L-41, BI-112L-40.									
BI-112L GENERAL BIOLOGY FOR HEALTH SCIENCES LAB, 0 CREDIT										
Lab course for BI-112										
Corequisites: BI-112										
oc	BI-112L-01 349349 T 1-3:50 PM S. KELSEY \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take the following BI-112-01.									
oc	BI-112L-02 349357 TH 8-10:50 AM J. BOWN \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take the following BI-112-01.									
HAR	BI-112L-15 349358 MW 10:30 -11:50 AM P. JONES \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take the following BI-112-15.									
HAR	BI-112L-40 349361 M 6-8:50 PM M. PLUMMER \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take the following BI-112-40.									
oc	BI-112L-41 349359 T 6-8:50 PM K. OSTLUND \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take the following BI-112-40.									
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 349363 MW 1-2:20 PM P. JONES \$544.00 \$56.00 \$55.00 \$655.00 This section is intended as a pre-requisite for the Medical Assistant and Medical Coding and Billing Programs.									
BI-120L INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY LAB, 0 CREDIT										
Lab course for BI-120										
Corequisites: BI-120										
HAR	BI-120L-15 349367 MW 2:30 -3:50 PM P. JONES \$0.00 \$0.00 \$0.00 \$0.00									
BI-165C NATURAL HISTORY OF THE OREGON COAST, 3 CREDITS										
Explores the natural processes that form our Northwest coastal environment: geologic development, shoreline processes, oceanography, and environmental hazards. Topics include the ecology of marine mammals, fish, birds, estuaries, tidepools, sand dunes, and coastal forests.										
oc	BI-165C-20 349370 M 6-8:50 PM J. BOWN \$408.00 \$42.00 \$20.00 \$470.00									
BI-165CL NATURAL HISTORY OF THE OREGON COAST WITH LAB, 4 CREDITS										

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ESPAÑOL: Enseñado en español
LCT: Low-Cost Text
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Explores the natural processes that form our Northwest coastal environment: geologic development, shoreline processes, oceanography, and environmental hazards. Topics include the ecology of marine mammals and birds, estuaries, tide pools, sand dunes and coastal forests. Lab included with field trips and lab activities.

oc	BI-165CL-20 349373 S M 6-8:50 PM
	J. BOWN \$544.00 \$56.00 \$100.00 \$700.00
	Required Field Trips to Oregon Coast - Oct 10th, Oct 24th, Nov 7th.

BI-215 GENERAL ZOOLOGY, 4 CREDITS
A lecture and lab course offering cellular and molecular basis of animal life including genetics, embryology, evolution, systematics, and protozoan diversity.
Corequisites: BI-215L
Prerequisites: MTH-095 or placement in MTH-111Z
Recommended Prerequisites: WRD-098 or placement in WR-121Z

oc	BI-215-01 349375 MW 10:30 -11:50 AM
	J. BOWN \$544.00 \$56.00 \$55.00 \$655.00

BI-215L GENERAL ZOOLOGY LAB, 0 CREDIT
Lab course for BI-215
Corequisites: BI-215

oc	BI-215L-01 349377 W 1-3:50 PM
	J. BOWN \$0.00 \$0.00 \$0.00 \$0.00

BI-221LZ PRINCIPLES OF BIOLOGY: CELLS LAB, 0 CREDIT
Lab course for BI-221Z
Corequisites: BI-221Z

oc	BI-221LZ-01 349381 TH 9-11:50 AM
	T. BLACKWELL \$0.00 \$0.00 \$0.00 \$0.00
oc	BI-221LZ-02 349382 TH 1-3:50 PM
	T. BLACKWELL \$0.00 \$0.00 \$0.00 \$0.00

BI-221Z PRINCIPLES OF BIOLOGY: CELLS, 5 CREDITS
Explores fundamental biological concepts and theories about the cellular and molecular basis of life including cell structure and function, metabolism, genetic basis of inheritance and how information flows from DNA to proteins, with a focus on the iterative process of science. Intended for science majors.
Corequisites: BI-221LZ
Prerequisite or Corequisite: CH-104Z and CH-124Z, or CH-221Z and CH-227Z
Prerequisites: MTH-111Z or placement in MTH-112Z
Recommended Prerequisites: WRD-098 or placement in WR-121Z

oc	BI-221Z-01 349383 MW 8-9:50 AM
	T. BLACKWELL \$680.00 \$70.00 \$55.00 \$805.00
ONL	BI-221Z-02 349385
	T. BLACKWELL \$680.00 \$70.00 \$55.00 \$805.00
	This section has an in-person lab requirement.

BI-231LZ HUMAN ANATOMY AND PHYSIOLOGY I LAB, 0 CREDIT
Lab course for BI-231Z
Corequisites: BI-231Z

oc	BI-231LZ-01 349405 M 1-3:50 PM
	M. PATTERSON \$0.00 \$0.00 \$0.00 \$0.00
	Corequisite: Take 1 of the following BI-231Z-01, BI-231Z-02.

Course Listing

2026/FA

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	BI-231LZ-02 349415 T J. GALLEGOS Corequisite: Take 1 of the following BI-231Z-01, BI-231Z-02.					\$0.00	\$0.00	3:30 -6:20 PM	\$0.00	\$0.00
OC	BI-231LZ-03 349417 W E. DEBEY Corequisite: Take 1 of the following BI-231Z-01, BI-231Z-02.					\$0.00	\$0.00	9-11:50 AM	\$0.00	\$0.00
HAR	BI-231LZ-15 349418 TTH M. PATTERSON Corequisite: Take the following BI-231Z-15.					\$0.00	\$0.00	10:30 -11:50 AM	\$0.00	\$0.00
OC	BI-231LZ-20 349420 W J. GALLEGOS Corequisite: Take the following BI-231Z-20.					\$0.00	\$0.00	6:30 -9:20 PM	\$0.00	\$0.00

BI-231Z HUMAN ANATOMY AND PHYSIOLOGY I, 4 CREDITS

Examines the structure and function of the human body through a body systems approach. Explores anatomy and physiology of the integumentary, skeletal and muscular systems at the relevant levels of biological organization (chemical, cellular, tissue, organ, and organ system). Covers neurophysiology and excitable membranes. Includes foundational aspects such as anatomical terminology and homeostasis. This course includes a laboratory component.

Prerequisites: BI-112 (preferred), or BI-101 and BI-102, or BI-221Z

Corequisites: BI-231LZ

Prerequisites: CH-112Z (preferred), or CH-104Z, CH-124Z, CH-105, and CH-125, or CH-221Z, CH-227Z, CH-222Z and CH-228Z

OC HYB	BI-231Z-01 349388 M M. PATTERSON Corequisite: Take 1 of the following BI-231LZ-01, BI-231LZ-02, BI-231LZ-03.					\$544.00	\$56.00	10-11:50 AM	\$55.00	\$655.00
OC HYB	BI-231Z-02 349398 T B. KOP Corequisite: Take 1 of the following BI-231LZ-01, BI-231LZ-02, BI-231LZ-03.					\$544.00	\$56.00	1-2:50 PM	\$55.00	\$655.00
HAR	BI-231Z-15 349401 TTH M. PATTERSON Corequisite: Take the following BI-231LZ-15.					\$544.00	\$56.00	9-10:20 AM	\$55.00	\$655.00
OC HYB	BI-231Z-20 349402 M B. KOP Corequisite: Take the following BI-231LZ-20.					\$544.00	\$56.00	6:30 -9:00 PM	\$55.00	\$655.00

BI-232LZ HUMAN ANATOMY AND PHYSIOLOGY II LAB, 0 CREDIT

Lab course for BI-232Z

Corequisites: BI-232Z

OC	BI-232LZ-01 349432 T J. GALLEGOS					\$0.00	\$0.00	11:30 -2:20 PM	\$0.00	\$0.00
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BI-232Z HUMAN ANATOMY AND PHYSIOLOGY II, 4 CREDITS

Examines the structure and function of the human body through a body systems approach. Explores anatomy and physiology of the central and peripheral nervous, endocrine, and cardiovascular systems at the relevant levels of biological organization (chemical, cellular, tissue, organ, and organ system). Covers special senses and the autonomic nervous system. This course includes a laboratory component.

Prerequisites: BI-231Z with a C or better

Corequisites: BI-232LZ

OC HYB	BI-232Z-01 349423 T B. KOP					\$544.00	\$56.00	8:30 -10:50 AM	\$55.00	\$655.00
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BI-233LZ HUMAN ANATOMY AND PHYSIOLOGY III LAB, 0 CREDIT

Lab course for BI-233Z

Corequisites: BI-233Z

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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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
OC	BI-233LZ-01 349444 M M. PATTERSON					\$0.00	\$0.00	4-6:50 PM	\$0.00	\$0.00

BI-233Z HUMAN ANATOMY AND PHYSIOLOGY III, 4 CREDITS

Examines the structure and function of the human body through a body systems approach. Explores anatomy and physiology of the respiratory, digestive, immune, lymphatic, urinary, and reproductive systems at the relevant levels of biological organization (chemical, cellular, tissue, organ, and organ system). Covers acid-base balance and human development. This course includes a laboratory component.

Prerequisites: BI-232Z with a C or better

Corequisites: BI-233LZ

OC HYB	BI-233Z-01 349438 M B. KOP					\$544.00	\$56.00	1-3:20 PM	\$55.00	\$655.00
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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-104Z and CH-124Z, or CH-112Z, or CH-221Z and CH-227Z

OC	BI-234-01 349449 TTH S. SOLL Corequisite: Take the following BI-234L-01.					\$544.00	\$56.00	1:30 -2:50 PM	\$55.00	\$655.00
OC	BI-234-20 349452 TTH M. PLUMMER Corequisite: Take the following BI-234L-20.					\$544.00	\$56.00	6-7:20 PM	\$55.00	\$655.00
ONL	BI-234-40 349453 A. KAPILA Corequisite: Take the following BI-234L-40.					\$544.00	\$56.00		\$170.00	\$770.00

BI-234L INTRODUCTORY MICROBIOLOGY LAB, 0 CREDIT

Lab course for BI-234

Corequisites: BI-234

OC	BI-234L-01 349454 TTH S. SOLL Corequisite: Take the following BI-234-01.					\$0.00	\$0.00	3-4:20 PM	\$0.00	\$0.00
OC	BI-234L-20 349458 TTH M. PLUMMER Corequisite: Take the following BI-234-20.					\$0.00	\$0.00	7:30 -8:50 PM	\$0.00	\$0.00
ONL	BI-234L-40 349460 A. KAPILA Corequisite: Take the following BI-234-40.					\$0.00	\$0.00		\$0.00	\$0.00

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

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
OC	BA-101Z-01	349232 TTH			8-9:50 AM		ONL LCT	BA-119-02	349249				
	J. EICHENBERGER		\$544.00	\$56.00	\$5.00	\$605.00		C. PLOWMAN		\$272.00	\$28.00	\$5.00	\$305.00
OC HYB	BA-101Z-02	349235 T			10-11:50 AM		BA-120 PROJECT MANAGEMENT FUNDAMENTALS, 4 CREDITS						
	J. EICHENBERGER		\$544.00	\$56.00	\$5.00	\$605.00	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.						
OC HYB	BA-101Z-03	349236 W			1-2:50 PM		Recommended: Working knowledge and access to MS Excel and MS Word						
	J. AMAN		\$544.00	\$56.00	\$80.00	\$680.00	OC HYB	BA-120-01	349250 T			6-8:20 PM	
	Online textbook included in section fees.							S. RAHN		\$544.00	\$56.00	\$5.00	\$605.00
OC HYB	BA-101Z-04	349237 TH			10-11:50 AM		OC HYB	BA-120-02	353177 S			9-12:00 PM	
	J. EICHENBERGER		\$544.00	\$56.00	\$5.00	\$605.00		S. RAHN		\$544.00	\$56.00	\$5.00	\$605.00
ONL	BA-101Z-05	349239					Section meets in-person on campus Oct. 3rd, Nov. 7th, and Dec. 5th.						
	M. MOISO		\$544.00	\$56.00	\$61.24	\$661.24	BA-128 PROJECT MANAGEMENT: LEADERSHIP STRATEGIES, 4 CREDITS						
	Online textbook included in section fees.						This course is an introductory course for students to explore different leadership styles. Through introspective exercises/assignments, students will have opportunities to find their leadership voice. Topics include the comparisons among various leadership versus management paradigms, mediation and negotiation techniques, employee engagement, team building, mentor-ship, tactical planning, creative decision-making, managing crisis conversations, and emotional intelligence.						
ONL	BA-101Z-06	349240					ONL NCT	BA-128-01	349253				
	B. FORNEY		\$544.00	\$56.00	\$80.00	\$680.00		C. CHATTERTON		\$544.00	\$56.00	\$20.00	\$620.00
	Online textbook included in section fees.						BA-131 INTRODUCTION TO BUSINESS COMPUTING, 4 CREDITS						
ONL	BA-101Z-07	349241					Introductory course using Microsoft Word, Excel, Access, and PowerPoint applications to create business documents.						
	K. HEINIG		\$544.00	\$56.00	\$61.24	\$661.24	Required: Access to the following: personal computer or laptop with MS Windows Operating System (Windows 11), Office 365 OR MS Office 2024, internet access (including email), or access to the CCC Dye Academic Computer Lab, or a loaner laptop from the department. Note: a Chromebook cannot be used for this course						
	Online textbook included in section fees.						Recommended Prerequisites: WRD-090 or placement in WRD-098						
ONL	BA-101Z-08	349242					OC HYB	BA-131-01	349254 W			10-11:50 AM	
	S. RAHN		\$544.00	\$56.00	\$80.00	\$680.00		F. MEYERS		\$544.00	\$56.00	\$139.23	\$739.23
	Online textbook included in section fees.							Office 2024 version is used. Online textbook included in section fees.					
BA-111 GENERAL ACCOUNTING I, 3 CREDITS							OC HYB	BA-131-02	349258 W			1-2:50 PM	
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.								F. MEYERS		\$544.00	\$56.00	\$139.23	\$739.23
Recommended Prerequisite or Corequisite: BA-101Z and BA-131								Office 2024 version is used. Online textbook included in section fees.					
Recommended Prerequisites: Placement in MTH-020							OC HYB	BA-131-03	349259 T			1-2:50 PM	
OC	BA-111-01	349244 W			9-11:50 AM			F. MEYERS		\$544.00	\$56.00	\$139.23	\$739.23
	J. SAN-CLAIRE		\$408.00	\$42.00	\$134.99	\$584.99	Office 2024 version is used. Online textbook included in section fees.						
	Online textbook included in section fees.						REM	BA-131-04	349261 M			6-8:20 PM	
ONL	BA-111-02	349246						M. SORRENTINO		\$544.00	\$56.00	\$139.23	\$739.23
	J. SAN-CLAIRE		\$408.00	\$42.00	\$134.99	\$584.99	Office 2024 version is used. Online textbook included in section fees.						
	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	349247											
	J. SAN-CLAIRE		\$544.00	\$56.00	\$134.99	\$734.99							
	Online textbook included in section fees.												
BA-119 PROJECT MANAGEMENT PRACTICES, 2 CREDITS													
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.													
ONL LCT	BA-119-01	349248											
	S. RAHN		\$272.00	\$28.00	\$5.00	\$305.00							

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ESPAÑOL: Enseñado en español
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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	BA-131-05 J. AMAN Office 2024 version is used. Online textbook included in section fees.	349263	\$544.00	\$56.00	\$139.23	\$739.23	BA-211Z 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 or BA-169Z Recommended Prerequisites: BA-111, and MTH-050 or higher	PRINCIPLES OF FINANCIAL ACCOUNTING, 4 CREDITS					
ONL	BA-131-06 T. FRANK Office 2024 version is used. Online textbook included in section fees.	349264	\$544.00	\$56.00	\$139.23	\$739.23	REM I. SETO Online textbook included in section fees.	BA-211Z-01	349272 T	\$544.00	\$56.00	1-2:50 PM	\$134.99 \$734.99
ONL	BA-131-07 D. HEINIG Office 2024 version is used. Online textbook included in section fees.	349265	\$544.00	\$56.00	\$139.23	\$739.23	ONL I. SETO Online textbook included in section fees.	BA-211Z-02	349282	\$544.00	\$56.00	\$134.99	\$734.99
BA-169Z DATA ANALYSIS USING MICROSOFT EXCEL, 4 CREDITS 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							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-169Z-30 D. CARINO Online textbook included in section fees.	349303	\$544.00	\$56.00	\$95.97	\$695.97	ONL J. SAN-CLAIRE Online textbook included in section fees.	BA-213Z-01	349285	\$544.00	\$56.00	\$134.99	\$734.99
ONL	BA-169Z-31 D. HEINIG Online textbook included in section fees.	349306	\$544.00	\$56.00	\$95.97	\$695.97							
BA-205 BUSINESS COMMUNICATIONS WITH TECHNOLOGY, 4 CREDITS 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							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						
OC HYB NCT	BA-205-01 C. CHATTERTON Section meets on campus 9/30. Additional work assigned and completed online.	349266 W	\$544.00	\$56.00	\$5.00	\$605.00	OC HYB J. AMAN Online textbook included in section fees.	BA-218-01	349291 W	\$544.00	\$56.00	10-11:50 AM	\$134.99 \$734.99
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							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 NCT	BA-206-01 J. AMAN	349267	\$544.00	\$56.00	\$5.00	\$605.00	ONL J. EICHENBERGER	BA-223-01	349295	\$544.00	\$56.00	\$5.00	\$605.00
							ONL K. HEINIG Online textbook included in section fees.	BA-223-02	349300	\$544.00	\$56.00	\$49.87	\$649.87
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.							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	BA-208-01 M. MOISO Online textbook included in section fees.	353132	\$544.00	\$56.00	\$49.87	\$649.87	ONL M. MOISO Online textbook included in section fees.	BA-224-01	349301	\$544.00	\$56.00	\$54.99	\$654.99
							BA-226Z INTRODUCTION TO BUSINESS LAW, 4 CREDITS						

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Course No	Course Title, Credits					
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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 NCT	BA-226Z-01	349305				
	M. MOISO		\$544.00	\$56.00	\$5.00	\$605.00
OC HYB NCT	BA-226Z-02	349312 T			10-11:50 AM	
	M. MOISO		\$544.00	\$56.00	\$5.00	\$605.00

BA-228 COMPUTERIZED ACCOUNTING, 4 CREDITS

An introductory, hands-on experience with Quickbooks Online, a cloud-based software application used as the bookkeeping system for small to mid-sized service businesses and merchandisers. Includes business setup and transactions for customer, vendor, and banking modules, transactions for a full accounting cycle, inventory management, financial reporting, and troubleshooting.

Prerequisites: BA-111 or BA-211Z

Recommended Prerequisites: BA-131 or CS-120

OC HYB	BA-228-01	349313 T			10-11:50 AM	
	L. LEWIS		\$544.00	\$56.00	\$115.00	\$715.00
	Online textbook included in section fees.					

BA-249 RETAILING, 3 CREDITS

Provides an understanding of the types of retail businesses, strategies, operations, formats and environments through which retailing is carried out, including a multi-disciplinary approach to understand the structure of effective retail management.

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

ONL	BA-249-01	349317				
	T. FRANK		\$408.00	\$42.00	\$5.00	\$455.00

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	349324				
	J. AMAN		\$408.00	\$42.00	\$49.87	\$499.87
	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.

Prerequisite or Corequisite: BA-120

ONL	BA-264-01	353205				
	S. RAHN		\$408.00	\$42.00	\$0.00	\$450.00

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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.

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

ONL NCT	BA-270-01	349335				
	C. CHATTERTON		\$544.00	\$56.00	\$5.00	\$605.00

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	349338				
	B. FORNEY		\$816.00	\$84.00	\$45.00	\$945.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					
ONL NCT	BA-280-02	349351				
	S. RAHN		\$816.00	\$84.00	\$45.00	\$945.00V
	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	BA-285-01	349352				
	T. DANIEL		\$544.00	\$56.00	\$49.87	\$649.87
	Online textbook included in section fees.					
ONL	BA-285-02	349354				
	J. HERNANDEZ		\$544.00	\$56.00	\$49.87	\$649.87
	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	349356				
	S. SIMMONS		\$272.00	\$28.00	\$10.00	\$310.00
ONL	BT-120-02	349364				
	S. SIMMONS		\$272.00	\$28.00	\$10.00	\$310.00

BT-122 KEYBOARDING SKILLBUILDING, 2 CREDITS

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.

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
Prerequisites: BT-120							Seminar course for CH-104Z						
ONL BT-122-01 349372 S. SIMMONS \$272.00 \$28.00 \$10.00 \$310.00							Corequisites: CH-104Z and CH-124Z						
ONL BT-122-02 349387 S. SIMMONS \$272.00 \$28.00 \$10.00 \$310.00							oc CH-104SZ-01 349476 TH 1-1:50 PM S. MCDONALD \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take the following CH-104Z-01, CH-124Z-01.						
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.							oc CH-104SZ-40 349479 TH 12-12:50 PM X. DONG \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take the following CH-104Z-40, CH-124Z-40.						
Recommended Prerequisites: WRD-090 or placement in WRD-098							CH-104Z INTRODUCTION TO CHEMISTRY, 4 CREDITS Introduces principles of general chemistry including atoms, chemical formulas and equations, bonding, stoichiometry, acid/base chemistry, solutions, and unit conversion calculations. Does not equal a general chemistry course sequence. CH-104Z is the lecture component; CH-124Z is the laboratory component.						
ONL BT-124-01 349389 S. SIMMONS \$408.00 \$42.00 \$124.99 \$574.99 Online textbook included in section fees.							Corequisites: CH-124Z and CH-104SZ Prerequisites: MTH-065 or MTH-098 or placement in MTH-095; and WRD-090 or placement in WRD-098						
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.							oc CH-104Z-01 353021 MW 2-3:20 PM S. MCDONALD \$544.00 \$56.00 \$0.00 \$600.00 Corequisite: Take the following CH-104SZ-01, CH-124Z-01.						
Prerequisites: BT-124 with a C or better							ONL CH-104Z-40 353023 X. DONG \$544.00 \$56.00 \$0.00 \$600.00 Corequisite: Take the following CH-104SZ-40, CH-124Z-40.						
ONL BT-125-01 349392 S. SIMMONS \$408.00 \$42.00 \$124.99 \$574.99 Online textbook included in section fees.							CH-112Z CHEMISTRY FOR HEALTH PROFESSIONS, 4 CREDITS A one quarter introduction to general, organic and biological chemistry, focusing on topics related to the health sciences including atoms, bonding, biomolecules, solution chemistry, chemical reactions, and functional group properties of organic molecules. This course is intended for pre-nursing and allied health students.						
BT-150 MS WORD FOR BUSINESS & THE WORKPLACE, 4 CREDITS This course provides a comprehensive introduction to Microsoft Word, progressing from beginning to intermediate skills essential for business and workplace applications. Students will learn to create, format, and edit professional documents. Emphasis will be placed on efficiency, accuracy, and professional presentation, preparing students to use Word effectively in an organizational setting. Hands-on exercises, real-world business scenarios, and projects will reinforce learning.							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						
ONL BT-150-01 349395 F. MEYERS \$544.00 \$56.00 \$97.12 \$697.12 Office 2024 version is used. Online textbook included in section fees.							oc LCT CH-112Z-01 353028 MW 2-3:50 PM E. FRANCIS \$544.00 \$56.00 \$15.00 \$615.00 HAR LCT CH-112Z-15 353030 TTH 10:30 -12:20 PM N. DAS \$544.00 \$56.00 \$15.00 \$615.00 oc HYB LCT CH-112Z-20 353031 M 6-7:50 PM S. MCDONALD \$544.00 \$56.00 \$15.00 \$615.00 oc HYB LCT CH-112Z-40 353032 T 1-2:50 PM E. FRANCIS \$544.00 \$56.00 \$15.00 \$615.00 In-person exam sessions will happen on October 29 and December 3.						
BT-262 INTEGRATED PROJECTS, 4 CREDITS Advanced use and integration of Microsoft Word, Excel, Access and PowerPoint skills in creating letters, reports, and forms; creation of advanced Excel worksheet reports and budgets; creation of Access databases to generate reports and forms; creation of PowerPoint presentations. Introduction to the use of Adobe Professional for use with documents, forms, and web pages. Google applications such as documents, presentations, spreadsheets, and Gmail.							CH-124Z INTRODUCTION TO CHEMISTRY LAB, 1 CREDIT Experiments corresponding to the topics covered in CH-104Z. CH-124Z is the laboratory component; CH-104Z is the lecture course.						
Prerequisites: BA-131 and BT-150							Corequisites: CH-104Z and CH-104SZ						
ONL BT-262-01 349397 M. SORRENTINO \$544.00 \$56.00 \$129.23 \$729.23 Office 2024 version is used. Online textbook included in section fees.							oc CH-124Z-01 353022 TBA S. MCDONALD \$136.00 \$14.00 \$50.00 \$200.00 Open Lab: Students must spend 3 hours per week in Chemistry Tutorial Lab. Lab Hours: Wed: 9 AM-4PM, Thursday: 9 AM-8 PM, & Friday: 9 AM-4 PM, DJ242. Corequisite: Take the following CH-104Z-01, CH-104SZ-01.						

Seminar course for CH-104Z

Corequisites: CH-104Z and CH-124Z

oc	CH-104SZ-01	349476 TH														
	S. MCDONALD		\$0.00	\$0.00	\$0.00	\$0.00										
Corequisite: Take the following CH-104Z-01, CH-124Z-01.																
oc	CH-104SZ-40	349479 TH														
	X. DONG		\$0.00	\$0.00	\$0.00	\$0.00										
Corequisite: Take the following CH-104Z-40, CH-124Z-40.																

CH-104Z INTRODUCTION TO CHEMISTRY, 4 CREDITS

Introduces principles of general chemistry including atoms, chemical formulas and equations, bonding, stoichiometry, acid/base chemistry, solutions, and unit conversion calculations. Does not equal a general chemistry course sequence. CH-104Z is the lecture component; CH-124Z is the laboratory component.

Corequisites: CH-124Z and CH-104SZ**Prerequisites:** MTH-065 or MTH-098 or placement in MTH-095; and WRD-090 or placement in WRD-098

oc	CH-104Z-01	353021 MW														
	S. MCDONALD		\$544.00	\$56.00	\$0.00	\$600.00										
Corequisite: Take the following CH-104SZ-01, CH-124Z-01.																
ONL	CH-104Z-40	353023														
	X. DONG		\$544.00	\$56.00	\$0.00	\$600.00										
Corequisite: Take the following CH-104SZ-40, CH-124Z-40.																

CH-112Z CHEMISTRY FOR HEALTH PROFESSIONS, 4 CREDITS

A one quarter introduction to general, organic and biological chemistry, focusing on topics related to the health sciences including atoms, bonding, biomolecules, solution chemistry, chemical reactions, and functional group properties of organic molecules. This course is intended for pre-nursing and allied health students.

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

OC LCT	CH-112Z-01	353028 MW														
	E. FRANCIS		\$544.00	\$56.00	\$15.00	\$615.00										
HAR LCT	CH-112Z-15	353030 TTH														
	N. DAS		\$544.00	\$56.00	\$15.00	\$615.00										
OC HYB LCT	CH-112Z-20	353031 M														
	S. MCDONALD		\$544.00	\$56.00	\$15.00	\$615.00										
OC HYB LCT	CH-112Z-40	353032 T														
	E. FRANCIS		\$544.00	\$56.00	\$15.00	\$615.00										
In-person exam sessions will happen on October 29 and December 3.																

CH-124Z INTRODUCTION TO CHEMISTRY LAB, 1 CREDIT

Experiments corresponding to the topics covered in CH-104Z. CH-124Z is the laboratory component; CH-104Z is the lecture course.

Corequisites: CH-104Z and CH-104SZ

oc	CH-124Z-01	353022 TBA														
	S. MCDONALD		\$136.00	\$14.00	\$50.00	\$200.00										
Open Lab: Students must spend 3 hours per week in Chemistry Tutorial Lab. Lab Hours: Wed: 9 AM-4PM, Thursday: 9 AM-8 PM, & Friday: 9 AM-4 PM, DJ242.																
Corequisite: Take the following CH-104Z-01, CH-104SZ-01.																

Chemistry

CH-104SZ INTRODUCTION TO CHEMISTRY SEMINAR, 0 CREDIT**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	CH-124Z-40 353024 TBA X. DONG Open Lab: Students must spend 3 hours per week in Chemistry Tutorial Lab. Lab Hours: Wed: 9 AM-4PM, Thursday: 9 AM-8 PM, & Friday: 9 AM-4 PM, DJ242. Corequisite: Take the following CH-104Z-40, CH-104SZ-40.					\$136.00	\$14.00	\$50.00		\$200.00
CH-150SZ PREPARATORY CHEMISTRY SEMINAR, 0 CREDIT Seminar course for CH-150Z Corequisites: CH-150Z										
OC	CH-150SZ-01 349504 W E. FRANCIS Corequisite: Take the following CH-150Z-01.					\$0.00	\$0.00	\$0.00		\$0.00
OC	CH-150SZ-02 349505 W D. MYERS Corequisite: Take the following CH-150Z-02.					\$0.00	\$0.00	\$0.00		\$0.00
OC	CH-150SZ-03 349506 TH E. FRANCIS Corequisite: Take the following CH-150Z-03.					\$0.00	\$0.00	\$0.00		\$0.00
CH-150Z PREPARATORY CHEMISTRY, 4 CREDITS Explores and applies principles and applications of introductory chemistry. Emphasis on an introduction to measurement, components of matter, quantitative relationships including introductory stoichiometry, and major classes of chemical reactions. This course is preparation for the General Chemistry series for students with little to no previous chemistry experience. Corequisites: CH-150SZ Prerequisites: MTH-095 or placement in MTH-111Z										
OC	CH-150Z-01 349500 MW E. FRANCIS Corequisite: Take the following CH-150SZ-01.					\$544.00	\$56.00	\$20.00		\$620.00
ONL	CH-150Z-02 349502 D. MYERS Corequisite: Take the following CH-150SZ-02.					\$544.00	\$56.00	\$20.00		\$620.00
ONL	CH-150Z-03 349503 E. FRANCIS This section includes an in-person seminar requirement. Corequisite: Take the following CH-150SZ-03.					\$544.00	\$56.00	\$20.00		\$620.00
CH-221SZ GENERAL CHEMISTRY I SEMINAR, 0 CREDIT Seminar course for CH-221Z Corequisites: CH-221Z and CH-227Z										
OC	CH-221SZ-01 349507 W D. MYERS Corequisite: Take 2 of the following CH-221Z-01, CH-227Z-01, CH-227Z-02.					\$0.00	\$0.00	\$0.00		\$0.00
OC	CH-221SZ-02 349510 W D. MYERS Corequisite: Take 2 of the following CH-221Z-01, CH-227Z-01, CH-227Z-02.					\$0.00	\$0.00	\$0.00		\$0.00
OC	CH-221SZ-20 349512 TH J. DU BOULAY Corequisite: Take the following CH-221Z-20, CH-227Z-20.					\$0.00	\$0.00	\$0.00		\$0.00
OC	CH-221SZ-40 349514 F R. KHALIFE Corequisite: Take the following CH-221Z-40, CH-227Z-40.					\$0.00	\$0.00	\$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-104Z, CH-124Z, CH-105, and CH-125, or CH-150Z, 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 LCT	CH-221Z-01 349516 MW D. MYERS Corequisite: Take 2 of the following CH-221SZ-01, CH-221SZ-02, CH-227Z-01, CH-227Z-02.					\$544.00	\$56.00	\$0.00		\$600.00
ONL LCT	CH-221Z-20 349518 J. DU BOULAY This section has an in-person lab requirement. Corequisite: Take the following CH-221SZ-20, CH-227Z-20.					\$544.00	\$56.00	\$0.00		\$600.00
ONL LCT	CH-221Z-40 349520 R. KHALIFE This section has an in-person lab requirement and seminar requirement. Corequisite: Take the following CH-221SZ-40, CH-227Z-40.					\$544.00	\$56.00	\$0.00		\$600.00
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 349521 TH D. MYERS Corequisite: Take 2 of the following CH-221Z-01, CH-221SZ-01, CH-221SZ-02.					\$136.00	\$14.00	\$50.00		\$200.00
OC	CH-227Z-02 349522 TH D. MYERS Corequisite: Take 2 of the following CH-221Z-01, CH-221SZ-01, CH-221SZ-02.					\$136.00	\$14.00	\$50.00		\$200.00
OC	CH-227Z-20 349524 TH J. DU BOULAY Corequisite: Take the following CH-221Z-20, CH-221SZ-20.					\$136.00	\$14.00	\$50.00		\$200.00
OC	CH-227Z-40 349527 F R. KHALIFE Corequisite: Take the following CH-221Z-40, CH-221SZ-40.					\$136.00	\$14.00	\$50.00		\$200.00
CH-241 ORGANIC CHEMISTRY I, 5 CREDITS First term of transfer sequence meeting organic chemistry requirement for premedical, dental, veterinary, pharmacy, chiropractic medicine, chemical engineering and biology majors. Prerequisites: CH-223Z and CH-229Z Corequisites: CH-241L and CH-241S										
OC	CH-241-01 349529 MW G. BURGESS					\$680.00	\$70.00	\$50.00		\$800.00
CH-241L ORGANIC CHEMISTRY I LAB, 0 CREDIT Lab course for CH-241 Corequisites: CH-241 and CH-241S										
OC	CH-241L-01 349532 F G. BURGESS					\$0.00	\$0.00	\$0.00		\$0.00
CH-241S ORGANIC CHEMISTRY I SEMINAR, 0 CREDIT Seminar course for CH-241										

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Corequisites: CH-241 and CH-241L										
OC	CH-241S-01 349534 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 NCT	EL-103-13 349498 B. MALONEY					\$136.00	\$14.00	\$0.00	\$150.00	
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 NCT	EL-111-01 349501 T B. MALONEY Meets: 10/13-12/12.					\$408.00	\$42.00	\$15.00	\$465.00	
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 NCT	HD-102-01 349641 J. GINSBURG Required: Student Petition.					\$816.00	\$84.00	\$0.00	\$900.00V	
HD-121 COLLEGE SUCCESS, 3 CREDITS										
This course provides student-athletes with practical strategies for achieving academic, athletic, and personal success in college and beyond. Students examine their role in the learning process while developing essential skills such as goal setting, time management, effective study strategies, critical thinking, information literacy, communication, and self-advocacy. Required: Student Petition.										
ONL NCT	HD-121-01 349724 J. MARTINEAU P. MARTINEAU Meets: 9/8-10/4. Required: Student Petition.					\$408.00	\$42.00	\$0.00	\$450.00	
OC NCT	HD-121-02 349726 MTWTHF 10-11:50 AM E. PFEIFER Meets: 9/8-9/26. Additional 3 hours TBA. Required: Student Petition.					\$408.00	\$42.00	\$0.00	\$450.00	
HD-138 UNDERSTANDING AND MANAGING ANXIETY AND DEPRESSION, 3 CREDITS										
Identifies components of anxiety and depression, contexts in which anxiety and depression occur, and solutions for coping with anxiety and depression symptoms through the use of various anxiety and depression management techniques.										
OC NCT	HD-138-01 349644 TTH 1-2:20 PM J. CORTES					\$408.00	\$42.00	\$0.00	\$450.00	
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 NCT	HD-140-01 349645 L. MARTINEZ					\$408.00	\$42.00	\$10.00	\$460.00	
HD-145 STRESS MANAGEMENT, 1 CREDIT										
Identifies specific personal stressors and focuses on developing skills that enable students to deal more effectively with stress.										
ONL NCT	HD-145-01 349647 M. MALLATT Meets: 10/12-10/26.					\$136.00	\$14.00	\$10.00	\$160.00	
HD-146 VALUES CLARIFICATION - THE TALK YOU WALK, 1 CREDIT										
Helps students examine beliefs, attitudes, and values behind decisions and actions. The students will examine whether behavior matches their stated beliefs, evaluate the consequences of choices, and focus on clarifying a personal value system.										
ONL NCT	HD-146-01 349649 TBA Meets: 11/3-11/17.					\$136.00	\$14.00	\$10.00	\$160.00	
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. Required: Student Petition.										
Corequisites: HD-208										
OC NCT	HD-202-01 353163 T 9-11:50 AM L. NIELSON Required: Student Petition.					\$0.00	\$0.00	\$40.00	\$40.00	
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. Required: Student Petition.										
Corequisites: HD-202										
OC NCT	HD-208-01 353164 TH 9-11:50 AM C. SIMS Required: Student Petition.					\$0.00	\$0.00	\$40.00	\$40.00	
HD-220 INTRODUCTION TO STUDENT LEADERSHIP, 2 CREDITS										
Introduces leadership concepts with application to the student environment. A discussion-oriented course on how leadership practices are put to use in campus leadership roles and beyond. Begins exploration of aspects of emotional intelligence, such as emotional self-perception, healthy self-esteem, and initiative. 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 NCT	HD-220-03 349654 M 3-4:50 PM M. BAKER					\$272.00	\$28.00	\$0.00	\$300.00	

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		Instructor		Tuition	Fee	Crs. Fee
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 NCT	COMM-100Z-01	349537 MW				10-11:50 AM
	L. HANN		\$544.00	\$56.00	\$0.00	\$600.00
OC NCT	COMM-100Z-02	349544 TTH				10-11:50 AM
	J. HULT		\$544.00	\$56.00	\$0.00	\$600.00
OC NCT	COMM-100Z-03	349546 TTH				1-2:50 PM
	A. SAMBOR		\$544.00	\$56.00	\$0.00	\$600.00
OC NCT	COMM-100Z-04	349547 MW				3-4:50 PM
	L. HANN		\$544.00	\$56.00	\$0.00	\$600.00
COMM-111ESZ	HABLANDO EN PUBLICO, 4 CREDITS					
COMM-111ESZ enfatiza el desarrollo de habilidades de comunicación al examinar y demostrar cómo la autoconciencia, la audiencia, el contenido y la ocasión influyen en la creación y entrega de discursos y presentaciones.						
Prerequisites: WR-124ES						
REM NCT ESPAÑOL	COMM-111ESZ-01	349549 TTH				5-6:50 PM
	A. MOSEY		\$544.00	\$56.00	\$20.00	\$620.00
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	349551 MW				8-9:50 AM
	K. MCCONNELL		\$544.00	\$56.00	\$20.00	\$620.00
REM NCT	COMM-111Z-02	349555 MW				8-9:50 AM
	J. SMITH		\$544.00	\$56.00	\$20.00	\$620.00
OC NCT	COMM-111Z-03	349557 TTH				8-9:50 AM
	B. MANN		\$544.00	\$56.00	\$20.00	\$620.00
REM NCT	COMM-111Z-04	349559 TTH				8-9:50 AM
	K. HUGHES		\$544.00	\$56.00	\$20.00	\$620.00
OC NCT	COMM-111Z-05	349561 MW				10-11:50 AM
	K. MCCONNELL		\$544.00	\$56.00	\$20.00	\$620.00
OC NCT	COMM-111Z-06	349564 MW				10-11:50 AM
	A. SAMBOR		\$544.00	\$56.00	\$20.00	\$620.00
REM NCT	COMM-111Z-07	349566 MW				10-11:50 AM
	J. SMITH		\$544.00	\$56.00	\$20.00	\$620.00
OC NCT	COMM-111Z-08	349569 TTH				10-11:50 AM
	B. MANN		\$544.00	\$56.00	\$20.00	\$620.00

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		Instructor		Tuition	Fee	Crs. Fee
OC NCT	COMM-111Z-09	349571 TTH				10-11:50 AM
	A. SAMBOR		\$544.00	\$56.00	\$20.00	\$620.00
REM NCT	COMM-111Z-10	349573 TTH				10-11:50 AM
	K. HUGHES		\$544.00	\$56.00	\$20.00	\$620.00
OC NCT	COMM-111Z-11	349575 MW				1-2:50 PM
	A. SAMBOR		\$544.00	\$56.00	\$20.00	\$620.00
OC NCT	COMM-111Z-12	349578 TTH				1-2:50 PM
	J. HULT		\$544.00	\$56.00	\$20.00	\$620.00
REM NCT	COMM-111Z-13	349581 TTH				6-7:50 PM
	TBA		\$544.00	\$56.00	\$20.00	\$620.00
REM NCT	COMM-111Z-14	349584 F S				6-9:00 PM 8-4:00 PM
	K. HUGHES Meets: 10/16-12/05.		\$544.00	\$56.00	\$20.00	\$620.00
HAR NCT	COMM-111Z-15	349586 MW				6-7:50 PM
	K. DOSS		\$544.00	\$56.00	\$20.00	\$620.00

COMM-140 INTRODUCTION TO INTERCULTURAL COMMUNICATION, 4 CREDITS

Intercultural Communication is a course dedicated to exploring the impact cultural differences have on the communication process. Students explore their own cultural behaviors and possible ways to deal with difficult situations when cultural differences cause a problem(s). Emphasis is given to the influence of culture on the interpretation of the communication act and to the communication skills that enhance cross-cultural communication.

Required: Non-native English speakers must have a Student Performance Level of 8 as measured by the BEST Plus. There is not a requirement for native speakers

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

ONL NCT	COMM-140-01	349592				
	K. HUGHES		\$544.00	\$56.00	\$0.00	\$600.00
ONL	COMM-140-02	353125				
	K. HUGHES		\$544.00	\$56.00	\$0.00	\$600.00

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.

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

OC	COMM-212-01	349593 MW				10-11:50 AM
	M. JONES		\$544.00	\$56.00	\$10.00	\$610.00

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	349594 MW				10-11:50 AM
	J. HULT		\$544.00	\$56.00	\$0.00	\$600.00

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Course Listing

2026/FA

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
HAR NCT	COMM-218Z-15	349597	TTH		10-11:50 AM		ONL	CS-125H-30	349613				
	M. WILLIAMS		\$544.00	\$56.00	\$0.00	\$600.00		D. CARINO		\$544.00	\$56.00	\$20.00	\$620.00
COMM-280	SPEECH/CWE, 2-6 CREDITS						CS-135DB MICROSOFT ACCESS, 3 CREDITS						
Cooperative work experience. Provides students with on-the-job experience in the field of communications. Required: Student Petition.							Focuses on the advanced database capabilities using a current version of Microsoft Access. Topics include design, construction, and documentation of a database management system, designing reports, forms, advanced form techniques, advanced queries, customizing tables, and creating and using an application system with macros.						
Corequisites: CWE-281							Prerequisites: BA-131 or CS-120 or higher or placement into CS-135DB						
ONL NCT	COMM-280-01	349599					ONL	CS-135DB-01	349614				
	K. HUGHES		\$816.00	\$84.00	\$45.00	\$945.00V		D. CARINO		\$408.00	\$42.00	\$20.00	\$470.00
Required: Student Petition.													
Computer Science													
CS-120	SURVEY OF COMPUTING, 4 CREDITS						CS-140 INTRODUCTION TO OPERATING SYSTEMS, 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.							Introduction to the theory and practical foundations of the Windows, Linux/UNIX, and macOS desktop operating systems. Discussion of and practice with OS administration through installation, configuration, networking, security, and virtualization.						
Prerequisites: WRD-098 or placement in WR-121Z							Prerequisites: CS-120 or equivalent placement						
							Prerequisites: MTH-050 or MTH-060 or placement in MTH-065 or higher						
							Prerequisites: WRD-098 or placement in WR-121Z						
OC HYB	CS-120-01	349605	W		1-2:50 PM		OC HYB NCT	CS-140-01	349617	T		10-11:50 AM	
			M		1-2:50 PM					TH		10-11:50 AM	
	M. SORRENTINO		\$544.00	\$56.00	\$179.99	\$779.99		R. CARINO		\$544.00	\$56.00	\$20.00	\$620.00
Section meets Mondays remote via Zoom from 1-2:50.							Section meets Tuesdays remote via Zoom from 10-11:50am.						
Section meets in-person on campus on Wednesdays from 1-2:50. Office 2021 version is used. Online textbook included in section fees.							Section meets in-person on campus on Thursdays from 10-11:50am.						
ONL	CS-120-30	349609											
	M. SORRENTINO		\$544.00	\$56.00	\$179.99	\$779.99							
Office 2021 version is used. Online textbook included in section fees.													
CS-122	PERSONAL CYBERSECURITY FUNDAMENTALS, 2 CREDITS						CS-140L LINUX FOR PROGRAMMERS, 4 CREDITS						
In this course students explore how cybersecurity affects their digital activities every day, including school, gaming, social media, banking, shopping, and AI tools. Students examine common online threats and apply practical protections to secure their personal accounts and devices. Through demonstrations, activities, and hands-on practice, students develop skills and a mindset in threat recognition, privacy management, and digital security while exploring diverse cybersecurity career pathways in technology, policy, and business.							Introduction to the Linux command line and software development tools. Covers how to use the command line and build tools, including VIM, GCC/G++, make, gdb, and others. Students will gain experience with the build tools by writing and debugging relatively complex programs in both C and C++.						
Required: Basic computer familiarity							Prerequisites: CS-162						
OC NCT	CS-122-01	353198	M		9-10:50 AM		ONL LCT	CS-140L-30	349619				
	L. RENDON		\$272.00	\$28.00	\$0.00	\$300.00		R. ALBERS		\$544.00	\$56.00	\$20.00	\$620.00
CS-125H	HTML & WEB SITE DESIGN, 4 CREDITS						CS-153 NETWORKING 3, 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.							This course describes the architectures and considerations related to designing, securing, operating, and troubleshooting enterprise networks. This course covers wide area network (WAN) technologies and quality of service (QoS) mechanisms used for secure remote access. It also introduces software-defined networking, virtualization, and automation concepts that support the digitalization of networks. This course, along with CS-151 and CS-152, covers the topics of the Cisco CCNA certification exam.						
Prerequisites: BA-131 or CS-120 or higher or placement into CS-125H							Prerequisites: CS-152						
OC HYB	CS-125H-01	349611	T		10-11:50 AM		OC HYB NCT	CS-153-01	349620	T		1-2:50 PM	
			TH		10-11:50 AM					TH		1-2:50 PM	
	D. CARINO		\$544.00	\$56.00	\$20.00	\$620.00		R. CARINO		\$544.00	\$56.00	\$20.00	\$620.00
Section meets Tuesdays remote via Zoom from 10-11:50am.							Section meets Tuesdays remote via Zoom from 1-2:50pm.						
Section meets in-person on campus on Thursdays from 10-11:50am.							Section meets in-person on campus on Thursdays from 1-2:50pm.						
CS-160	COMPUTER SCIENCE ORIENTATION, 4 CREDITS												

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Other Coding Translations:
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2026/FA

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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
ONL NCT	CS-280-01 349639					
	J. MILLER		\$816.00	\$84.00	\$45.00	\$945.00V
	Required: Student Petition. Restricted to computer science students. Corequisite: Take the following CWE-281-05.					

Computer-Aided Drafting Technology

Call 503-594-3318 for more information, or contact Advising, 503-594-3475.

CDT-102 SKETCHING & PROBLEM SOLVING, 3 CREDITS

Freehand sketching encountered in drafting engineering projects. Selecting views and implementing drafting standards. Dimensioning, lettering, sections and auxiliary views are covered. Problem solving in individual and group settings.

oc	CDT-102-01 349462 TTH				12-2:50 PM	
	J. TRAVER		\$408.00	\$42.00	\$153.75	\$603.75

CDT-223 INVENTOR FUNDAMENTALS, 3 CREDITS

Introduces parametric and adaptive modeling techniques using Autodesk Inventor. This course will guide students through design environment setup, creation of simple and complex part geometry, assembly building, animation, and detailed 2D drawing output.

Recommended: Basic working knowledge of Windows operating system and Microsoft Excel

REM	CDT-223-01 349463 MW				4:30 -7:20 PM	
	M. ROTUNDO		\$408.00	\$42.00	\$153.75	\$603.75

Cooperative Work Experience

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

ONL NCT	CWE-281-03 348822					
	M. LAFORCE		\$0.00	\$0.00	\$0.00	\$0.00
	Required: Student Petition. Restricted to Water & Environmental Technology students.					
ONL NCT	CWE-281-05 348823					
	J. MILLER		\$0.00	\$0.00	\$0.00	\$0.00
	Required: Student Petition. Restricted to Computer Science students.					
ONL NCT	CWE-281-06 348824					
	J. STAPLETON		\$0.00	\$0.00	\$0.00	\$0.00

Criminal Justice

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	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time		
	Instructor		Tuition	Fee	Crs. Fee	Total
For more information on Criminal Justice, Corrections, credit for completion of D.P.S.S.T. or law enforcement academies contact Joanna Crawford at jim.musgrave@clackamas.edu or 503-594-6224.						

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 349399					
	T. MUSGRAVE		\$544.00	\$56.00	\$0.00	\$600.00
ONL LCT	CJA-101-02 349404					
	T. MUSGRAVE		\$544.00	\$56.00	\$0.00	\$600.00

CJA-110 INTRODUCTION TO LAW ENFORCEMENT, 3 CREDITS

Explores theories, philosophies, and concepts of American law enforcement. This course also examines the history of law enforcement, specific components of the system, public safety responses, and the professionals charged with peace keeping.

ONL	CJA-110-01 349407					
	T. MUSGRAVE		\$408.00	\$42.00	\$25.00	\$475.00
ONL	CJA-110-02 353506					
	T. MUSGRAVE		\$408.00	\$42.00	\$25.00	\$475.00

CJA-122 CRIMINAL LAW, 4 CREDITS

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.

HAR LCT	CJA-122-01 349409 T				5:30 -9:10 PM	
	S. HEALY		\$544.00	\$56.00	\$0.00	\$600.00
HAR HYB LCT	CJA-122-02 349411 M				9-9:50 AM	
	T. BEARD		\$544.00	\$56.00	\$0.00	\$600.00

CJA-206 TRAUMA INFORMED PRACTICES, 3 CREDITS

In this course, students will learn how to recognize and respond to the impact of traumatic stress. Students will gain knowledge and skills they can infuse into their practices and act in a way that maximizes physical and psychological safety for clients and themselves. Students will understand how trauma impacts the brain, body, as well as development. Topics such as vicarious trauma, cultural trauma, and secondary trauma will be examined and discussed.

Recommended Prerequisites: CJA-101 or HS-100 or any other 100-level course that discusses human behavior, development, or social interactions

ONL LCT	CJA-206-01 349412					
	TBA		\$408.00	\$42.00	\$0.00	\$450.00

CJA-210 CRIMINAL INVESTIGATIONS, 3 CREDITS

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
		Instructor		Tuition Fee	Crs. Fee	
	Analyzes the theories and functional principles of criminal investigations within a standardized investigative framework. Students will apply techniques for crime scene management, evidence identification, and investigative interviewing while examining the legal requirements for case preparation and courtroom testimony. The course requires students to differentiate between various crime elements and burdens of proof, culminating in the synthesis of investigative data into comprehensive, professional reports.					
	Prerequisites: CJA-122 with a C or better					
	Recommended Prerequisites: WR-121Z					
HAR HYB LCT	CJA-210-01 349413 M 11-12:20 PM	T. MUSGRAVE		\$408.00 \$42.00 \$0.00		\$450.00
CJA-214	INTIMATE PARTNER VIOLENCE, 3 CREDITS					
	This course will analyze the historical, social, legal, and psychological aspects of Intimate Partner Violence. Includes definitions of the problem, demographics, survivors, perpetrators, children who witness, strategies and tactics of abuse and survival, and core strategies for legal intervention.					
ONL LCT	CJA-214-01 349421	T. BOYLE- GALESTIANZ		\$408.00 \$42.00 \$0.00		\$450.00
CJA-223	CRIMINAL JUSTICE ETHICS, 3 CREDITS					
	Surveys common ethical frameworks and then examines ethical issues, questions, challenges and consequences facing criminal justice professionals, including law enforcement, corrections, the courts and others.					
HAR HYB	CJA-223-01 349424 M 10-10:50 AM	T. MUSGRAVE		\$408.00 \$42.00 \$0.00		\$450.00
CJA-252	INTRODUCTION TO RESTORATIVE JUSTICE, 3 CREDITS					
	Provides a critical introduction to restorative justice. Covers fundamental values and principles of restorative justice, and the experience and interests of key stakeholders (victims, offenders, communities, and systems).					
ONL LCT	CJA-252-01 349426	G. RONNING		\$408.00 \$42.00 \$0.00		\$450.00
CJA-280	CRIMINAL JUSTICE/CORRECTIONS/CWE, 2-6 CREDITS					
	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.					
	Corequisites: CWE-281					
ONL LCT	CJA-280-01 349428	G. RONNING		\$816.00 \$84.00 \$45.00		\$945.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

Dental Assistant

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

DA-101 DENTAL RADIOLOGY I, 2 CREDITS

Introduction to history and principles of dental radiology, terminology, and basic physics associated with x-rays, biological effects of x-rays, anatomical landmarks and infection control.

Required: Acceptance into Dental Assistant program

Corequisites: DA-101L

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		Instructor		Tuition Fee	Crs. Fee	
HAR	DA-101-01 348826 TH 12-1:50 PM	K. HIATT		\$272.00 \$28.00 \$175.00		\$475.00

DA-101L DENTAL RADIOLOGY I LAB, 1 CREDIT

This course covers practical instruction in radiation health and safety, types of films, receptor holders, processing and mounting of dental films, use of x-ray equipment, infection control techniques, disposal of hazardous waste, and exposure techniques on x-ray manikins. Introduces digital and conventional x-ray exposures. All exposure techniques performed on x-ray manikins.

Required: Acceptance into Dental Assistant program

Corequisites: DA-101

HAR HYB	DA-101L-01 348827 TH 9-11:50 AM	K. HIATT		\$136.00 \$14.00 \$0.00		\$150.00
	A. KOBYLINSKY					
HAR HYB	DA-101L-02 348828 TH 2-4:50 PM	E. GORDON		\$136.00 \$14.00 \$0.00		\$150.00
	K. HIATT					
	A. KOBYLINSKY					

DA-104 CLINICAL PROCEDURES I, 2 CREDITS

Discussion in the practice of patient care including the collection of patient medical and dental histories and maintenance of accurate treatment records. Explores the history of dentistry, dental ethics, law, and HIPAA. The dental healthcare team, dental office design and the dental profession will also be discussed.

Required: Acceptance into Dental Assistant program

Corequisites: DA-104L

HAR HYB	DA-104-01 348829 W 9-10:00 AM	M. BUTKOVICH		\$272.00 \$28.00 \$225.00		\$525.00
	K. HIATT					
	In-Person Course Orientation on Wednesday, 9/30 from 9-10 AM. All other classe sessionsare online and asynchronous.					

DA-104L CLINICAL PROCEDURES I LAB, 1 CREDIT

This course prepares the student for basic chairside assisting and general procedures. Application of essential skills in seating and dismissing patients, ergonomics, taking and recording vital signs, and infection control are taught and practiced in a dental laboratory setting.

Required: Acceptance into Dental Assistant program

Corequisites: DA-104

HAR HYB	DA-104L-01 348830 T 9-11:50 AM	K. HIATT		\$136.00 \$14.00 \$0.00		\$150.00
	A. KOBYLINSKY					
HAR HYB	DA-104L-02 348831 T 2-4:50 PM	K. HIATT		\$136.00 \$14.00 \$0.00		\$150.00
	A. KOBYLINSKY					

DA-107 DENTAL MATERIALS I, 2 CREDITS

This course is an in-depth level of instruction in the composition and manipulation of dental restorative materials, and dental cements. Examination of general dentistry and chairside assisting with direct permanent restorations such as amalgam and composite will also be covered.

Required: Acceptance into Dental Assistant program

Corequisites: DA-107L

HAR HYB	DA-107-01 348832 F 12-1:50 PM	K. HIATT		\$272.00 \$28.00 \$260.00		\$560.00
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DA-107L DENTAL MATERIALS I LAB, 1 CREDIT

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
Instructor			Tuition	Fee	Crs. Fee		Instructor			Tuition	Fee	Crs. Fee	
This course covers the application of the essential skills necessary in assisting with amalgam and composite restorations. Covers tray-set-ups, pre and post-operative instructions, instrument transfer, and oral evacuation with amalgam and composite procedures. The identification and application of dental cements used in general dentistry will also be covered. Includes manipulation, storage and disposal of hazardous dental materials and cements.													
Required: Acceptance into Dental Assistant program													
Corequisites: DA-107													
HAR HYB	DA-107L-01	348833 F			9-11:50 AM								
	K. HIATT		\$136.00	\$14.00	\$0.00	\$150.00							
	A. KOBYLINSKY												
HAR HYB	DA-107L-02	348834 F			2-4:50 PM								
	K. HIATT		\$136.00	\$14.00	\$0.00	\$150.00							
	A. KOBYLINSKY												
DA-110 CLINICAL PRACTICUM I, 1 CREDIT													
Clinical practicum begins in the eighth week of class. Students begin to apply basic dental assisting procedures taught in weeks one through seven. OSHA, hazard communication and infection control are followed for student and patient safety. Students will participate in a clinical practicum orientation and a medical emergency seminar held prior to clinical practicum. Students will also participate in a review session for the national Infection Control Exam (ICE).													
Required: Acceptance into Dental Assistant program													
HAR HYB	DA-110-01	348835 W			9-1:00 PM								
	TBA												
	M				9-1:00 PM								
	K. HIATT		\$136.00	\$14.00	\$195.00	\$345.00							
	Clinical Practicum (offsite in dental clinic) meets for 20 hours total on: 11/18, 11/25, 12/2, 12/9. Mandatory orientation and Medical Emergency class on Wednesday, October 21, 2026 from 9 AM - 1:00 PM on the Harmony Campus. Online medical emergency training module to be completed online prior to October course. Infection Control Review Session on Zoom on Monday, 12/7 from 9AM-1 PM.												
DA-115 DENTAL SCIENCE, 2 CREDITS													
Introduction and general study of anatomy, physiology, and oral pathology. An in-depth level course of study in oral anatomy, histology and embryology. Introduction to charting will also be covered.													
Required: Acceptance into Dental Assistant program													
HAR HYB	DA-115-01	348836 W			8-9:00 AM								
	K. HIATT		\$272.00	\$28.00	\$125.00	\$425.00							
	R. MASCARENHAS												
	Course orientation, in person, on Wed, 10/1 from 8 AM - 9 AM.												
DA-125 DENTAL INFECTION CONTROL, 2 CREDITS													
This course covers the introduction and general study of microbiology, major groups of microorganisms, viral and bacterial diseases. Disease transmission, infection prevention, disinfection and instrument processing techniques will also be covered. An in-depth level of the Bloodborne Pathogens Standards and Hazard Communication will be taught and integrated throughout the didactic, preclinical, laboratory and clinical course of study.													
Required: Acceptance into Dental Assistant program													
HAR HYB	DA-125-01	348837 T			12-1:50 PM								
	K. HIATT		\$272.00	\$28.00	\$240.00	\$540.00							
Digital Media Communications													
Required: ART-115													

Course No		Course Title, Credits				
Section No		Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total	
Instructor			Tuition	Fee	Crs. Fee	
DMC-100 INTRODUCTION TO MEDIA ARTS, 3 CREDITS						
Presents an overview of career opportunities in the media industry. Introduces basic principles common to success in the media industry, common media industry entrance strategies, health and safety best practices and the history of the industry from film to online media. In addition, this course will cover basic theories behind what shapes and drives the media industry.						
OC NCT	DMC-100-01	348817 MW			1-2:20 PM	
	M. DEVENDORF		\$408.00	\$42.00	\$15.00	\$465.00
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 NCT	DMC-104-01	349642 TTH			1-3:50 PM	
	M. DEVENDORF		\$544.00	\$56.00	\$120.00	\$720.00
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 NCT	DMC-106-01	349646 TTH			1-3:50 PM	
	T. WASSON		\$544.00	\$56.00	\$120.00	\$720.00
DMC-109 INTRODUCTION TO STOP MOTION ANIMATION, 4 CREDITS						
Introduces basic stop motion animation tools, materials, techniques and elements of storyboarding, scripting, narrative development, compositing, special effects and audio integration into a final group film. Assignments include character development, rigging, set creation, photography, video compositing, and audio recording and synching. Uses digital cameras and industry-standard stop motion software.						
Recommended Prerequisites: DMC-106 and DMC-225						
OC NCT	DMC-109-01	349648 MW			1-3:50 PM	
	T. WASSON		\$544.00	\$56.00	\$120.00	\$720.00
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.						
OC NCT	DMC-147-01	348818 F			6:30 -8:50 PM	
	S				9-5:50 PM	
	B. ROSE		\$136.00	\$14.00	\$99.00	\$249.00
	Meets: 10/16 & 10/17.					
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.						

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Course Listing

2026/FA

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OC NCT	DMC-225-01 349650 MW 9-11:50 AM		T. WASSON			\$544.00	\$56.00	\$120.00		\$720.00
ONL NCT	DMC-225-02 349653		B. THWING			\$544.00	\$56.00	\$120.00		\$720.00
DMC-247 SOUND FOR MEDIA, 3 CREDITS										
Introduction to sound as related to film making, animation, and video games. Students will have the opportunity to create and assemble sound for media into a finished product. Explores the basic components of commercial film/video, animation, and game production as they relate to sound.										
Recommended: Experience using a DAW (Digital Audio Workstation) or video editing software										
OC NCT	DMC-247-01 348819 W 3-5:50 PM		B. ROSE			\$408.00	\$42.00	\$90.00		\$540.00
DMC-264 DIGITAL FILMMAKING, 4 CREDITS										
In this course, students follow the process of translating a written script into a digital film via pre-production, lighting, shooting, and post-video production.										
OC NCT	DMC-264-01 349655 MW 9-11:50 AM		M. DEVENDORF			\$544.00	\$56.00	\$120.00		\$720.00
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 NCT	DMC-280-02 349658		T. WASSON			\$816.00	\$84.00	\$45.00		\$945.00V
Required: Student Petition.										
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 349448 MW 3-4:50 PM		D. LOUGEE			\$544.00	\$56.00	\$0.00		\$600.00
ONL NCT	EC-201Z-02 349450		D. LOUGEE			\$544.00	\$56.00	\$0.00		\$600.00
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 353114 MW 10-11:50 AM		D. LOUGEE			\$544.00	\$56.00	\$0.00		\$600.00
ONL NCT	EC-202Z-02 349451		M. PARTAPURWALA			\$544.00	\$56.00	\$0.00		\$600.00
Education										
ECE-150 INTRODUCTION TO EARLY CHILDHOOD EDUCATION & FAMILY STUDIES, 4 CREDITS										

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ESPAÑOL: Enseñado en español
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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

Se enfoca en el rol del profesional en Educación Infantil (ECE) y se explorará los estándares y competencias profesionales de NAEYC para maestros de la primera infancia. Los estudiantes recibirán información sobre el Código de Conducta y Ética profesional de la Asociación Nacional para la Educación de Niños Pequeños así como también la información sobre lo que significa ser un Profesional de ECE y cómo abogar para los niños y las familias.

Prerequisites: ECE-121ES, ECE-240ES, ECE-246ES, and ECE-280ES

ONL LCT ESPAÑOL	ECE-179ES-01 349464					
	A. ECHEVARRIA	\$544.00	\$56.00	\$0.00		\$600.00
ONL LCT ESPAÑOL	ECE-179ES-02 353413					
	L. JAMES	\$544.00	\$56.00	\$0.00		\$600.00

ECE-221 OBSERVATION & GUIDANCE II IN ECE SETTINGS, 4 CREDITS

Designed to help students explore in greater depth the observation and guidance of children from birth-3rd grade within the classroom environment. In this more advanced course, the student focuses on additional observation and guidance techniques for observing groups of children and addresses challenging behaviors and other issues within the early childhood environment. The practitioner's role in using observation to promote their own development and to assist in the development of the children is explored in depth.

Prerequisites: ECE-121

ONL	ECE-221-01 349465					
	D. HENDRICKS	\$544.00	\$56.00	\$0.00		\$600.00
	This section is an accelerated 5-week online course that runs between 9/28 - 10/31.					

ECE-221ES OBSERVACIÓN Y ORIENTACIÓN II EN EDUCACIÓN TEMPRANA, 4 CREDITS

Diseñado para ayudar a los estudiantes a explorar con mayor profundidad la observación y la orientación de los niños desde el nacimiento hasta el tercer grado dentro del entorno del aula. En este curso más avanzado, el estudiante se enfoca en técnicas adicionales de observación y orientación para observar grupos de niños y aborda comportamientos desafiantes y otros problemas dentro del entorno de la primera infancia. Se explora en profundidad el papel del profesional en el uso de la observación para promover su propio desarrollo y ayudar en el progreso de los niños.

Prerequisites: ECE-121ES and WR-124ES

REM LCT ESPAÑOL	ECE-221ES-01 349466 S				8-9:50 AM	
	Y. SANCHEZ	\$544.00	\$56.00	\$0.00		\$600.00
	La clase se reúne cinco sábados por Zoom (10/3, 10/17, 10/31, 11/14, y 11/28) de 8:00AM a 9:50AM.					

ECE-240 ENVIRONMENTS AND CURRICULUM PLANNING, 4 CREDITS

Focuses on an introduction of creating learning environments and curriculum for children from three years old through five years old in home or center-based programs. Course covers theories and relationships between physical and social space, activities, experiences, and materials. Students are introduced to the use of developmentally and culturally appropriate practices in planning and selecting environments and curriculum for young children. This course contains a required accreditation key assessment and cannot be waived or transferred in from another institution.

Prerequisites: ECE-121, ECE-150, ECE-235, and HDF-225

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

REM	ECE-240-01 353155 W				6-7:50 PM	
	B. KING	\$544.00	\$56.00	\$0.00		\$600.00
	This class meets on six Wednesdays via Zoom (9/30, 10/14, 10/28, 11/18, 11/25, 12/9) from 6:00PM to 7:50PM.					

ECE-241 ENVIRONMENTS AND CURRICULUM PLANNING: INFANTS AND TODDLERS, 3 CREDITS

Builds upon knowledge and skills learned in ECE-240. Emphasis is on application of research-based strategies to implement and evaluate early childhood environments and curriculum for children from birth-three years old. Focus is on integrating content knowledge throughout all classroom activities.

REM LCT	ECE-241-01 349470 T				5-6:50 PM	
	D. HENDRICKS	\$408.00	\$42.00	\$0.00		\$450.00
	This class meets on six Tuesdays via Zoom (9/29, 10/13, 10/27, 11/10, 11/24, & 12/8) from 5:00pm to 6:50pm.					

ECE-241ES AMBIENTES Y PLANIFICACIÓN CURRICULAR PARA BEBÉS Y NIÑOS PEQUEÑOS, 3 CREDITS

Este curso se enfoca en la aplicación de estrategias basadas en la investigación para implementar y evaluar los entornos y el plan de estudios de la primera infancia para niños desde el nacimiento hasta los tres años de edad. El enfoque está en integrar el conocimiento del contenido en todas las rutinas y experiencias en el aula.

Prerequisites: ECE-240ES

REM LCT ESPAÑOL	ECE-241ES-01 349471 W				6-7:50 PM	
	R. TORRES	\$408.00	\$42.00	\$0.00		\$450.00
	La clase se reúne seis miércoles por Zoom (9/30, 10/4, 10/28, 11/18, 11/25, 12/9) de 6:00PM a 7:50PM.					
REM NCT ESPAÑOL	ECE-241ES-02 353414 M				6-7:50 PM	
	R. TORRES	\$408.00	\$42.00	\$0.00		\$450.00
	La clase se reúne seis lunes por Zoom (9/28, 10/12, 10/26, 11/9, 11/23, 12/7) de 6:00PM a 7:50PM.					

ECE-246ES RELACIONES ENTRE LA ESCUELA, LA FAMILIA Y LA COMUNIDAD, 4 CREDITS

Este curso se concentra en el conocimiento y las habilidades para trabajar eficazmente con las familias y la comunidad y con otros profesionales en educación infantil (6 semanas de edad hasta tercer grado). El énfasis está en construir y mantener relaciones positivas para fomentar la cooperación y el respeto mutuo entre los profesionales en la primera infancia y las familias de los niños con quienes trabajan.

REM LCT ESPAÑOL	ECE-246ES-01CMP 349477 TH				6-7:50 PM	
	B. MARRON	\$544.00	\$56.00	\$0.00		\$600.00
	La clase se reúne cinco jueves por Zoom (10/1, 10/15, 10/29, 11/12, y 12/10) de 6:00 PM to 7:50PM.					

ECE-280 EARLY CHILDHOOD EDUCATION/CWE, 3 CREDITS

Cooperative work experience. Provides students with on-the-job experience in the field of early childhood education. Students will work in pre-approved educational settings that serve children from six weeks old through age eight. Required: Student Petition.

Corequisites: CWE-281

Prerequisites: ECE-121, ECE-150, and ECE-154

REM LCT	ECE-280-01 349478					
	D. GLASCOCK	\$408.00	\$42.00	\$45.00		\$495.00
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

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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		
ECE-280ES	EXPERIENCIA LABORAL COOPERATIVA, 3 CREDITS												
En este curso, los estudiantes completan 108 horas de trabajo en un entorno de primera infancia, asistiendo a niños y familias desde el nacimiento hasta los 8 años de edad. Si no completan las horas requeridas, recibirá un curso incompleto o reprobará.													
Corequisites: CWE-281ES													
Prerequisites: ECE-150ES, ECE-170ES, and HDF-225ES													
REM ESPAÑOL	ECE-280ES-01 352819 TH				6-7:50 PM								
	A. ECHEVARRIA	\$408.00	\$42.00	\$45.00		\$495.00							
Requerido: petición del estudiante. La clase se re ne dos jueves por Zoom (10/1 y 10/29) de 6:00pm a 7:50pm.													
ECE-292ES	PRACTICUM III, 4 CREDITS												
Se centra en las experiencias de practica para estudiantes de educación infantil en una variedad de entornos educativos, atendiendo a niños desde el nacimiento hasta el nivel de kinder. Este curso permite a los estudiantes profundizar y aplicar los conocimientos, métodos y habilidades adquiridos en los cursos de educación infantil y estudios de la familia, así como en los semestres anteriores de prácticas y experiencia laboral cooperativa (CWE). El curso abarca la observación y evaluación continuas, así como la asistencia al maestro mentor en la implementación de un enfoque curricular integrado, prestando especial atención al trabajo con niños de diversos orígenes y sus familias. Este curso incluye una evaluación clave (Key Assessment) obligatoria para fines de acreditación y no puede ser eximido ni convalidado mediante créditos transferidos desde otra institución. Requisito: Solicitud del estudiante.													
Prerequisites: ECE-169ES, ECE-239ES, ECE-254ES, and ECE-291ES													
REM ESPAÑOL	ECE-292ES-01 353180 S				9-11:50 AM								
	D. TORRADO	\$544.00	\$56.00	\$0.00		\$600.00							
La clase se reúne cinco sábados por Zoom (10/3, 10/17, 10/31, 11/14, 11/28) de 9:00AM a 11:50AM.													
ED-114	INTEGRATED MATH METHODS, 3 CREDITS												
This course develops an understanding of how to integrate math into Career and Technical Education (CTE) courses and programs. Curriculum design and assessment for math concepts and skills are explored, identified, and developed. Designed for CTE instructors, but anyone interested in integrating math into their classrooms would benefit from this class. Emphasis is placed on the role of math in the development of the whole student and on linking the CTE curriculum to the mathematics needed for students to be successful in their field.													
ONL LCT	ED-114-01 349483												
	K. SMUCKER	\$408.00	\$42.00	\$0.00		\$450.00							
ED-130	CLASSROOM MANAGEMENT, 3 CREDITS												
This course focuses on creating positive classroom and school climates, organizing and managing classrooms, improving instruction, dealing with classroom discipline problems, developing individualized plans for students experiencing behavioral problems, and developing school-wide student management programs-characteristics of effective schools and teachers.													
ONL	ED-130-01 349484												
	L. SCOTT	\$408.00	\$42.00	\$56.24		\$506.24							
Online textbook included in section fees.													
ED-150	CREATIVE ACTIVITIES FOR CHILDREN, 3 CREDITS												
The class focuses on understanding and implementing a developmental approach to creative activities for young children; involves hands-on experience with a variety of mediums including art, music and movement, and creative dramatics.													
ONL	ED-150-01 353156												
	L. SCOTT	\$408.00	\$42.00	\$54.26		\$504.26							
Online textbook included in section fees.													
ED-216	FOUNDATIONS OF 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.													
OC	ED-216-01 349485 TTH				10-11:50 AM								
	L. SCOTT	\$544.00	\$56.00	\$44.87		\$644.87							
Online textbook included in section fees.													
ONL	ED-216-02 349486												
	L. SCOTT	\$544.00	\$56.00	\$44.87		\$644.87							
Online textbook included in section fees.													
ED-220	INTRODUCTION TO CTE IN OREGON, 3 CREDITS												
Provides an introduction to the field of Career and Technical Education (CTE) in Oregon. Examines the historical and legislative foundations of CTE in the United States. Discusses the role of special populations in CTE programs. Provides an overview of high quality CTE programs, CTE licensure preparation, and student organizations. Addresses current trends and issues in the field.													
ONL LCT	ED-220-01 349488												
	M. HELZERMANN	\$408.00	\$42.00	\$0.00		\$450.00							
ED-246	SCHOOL, FAMILY & COMMUNITY RELATIONS, 4 CREDITS												
This course focuses on the knowledge and skills to work effectively with families and community professionals in early childhood education (6 weeks of age through 3rd grade). Emphasis is on building and maintaining positive relationships to foster cooperation and mutual respect between early childhood professionals and the families of the children with whom they are working.													
ONL	ED-246-01 349491												
	D. HENDRICKS	\$544.00	\$56.00	\$0.00		\$600.00							

Educational Focus Area

EFA-101C INTRODUCTION TO THE CREATIVE ARTS COMMUNICATION AND HUMANITIES, 2 CREDITS

This course engages students in the creative process of making meaning within the creative arts, communications, and humanities, and invites them to view themselves, others, and the world through story, while discovering academic and career possibilities.

OC	EFA-101C-01 349675 M				4-5:50 PM	
	S. MACH	\$272.00	\$28.00	\$0.00		\$300.00

EFA-101S INTRODUCTION TO STEM, 2 CREDITS

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This course will feature activities, demonstrations, and real world experiences in STEM fields, including environmental science, biology, chemistry, geology, physics, engineering, computer science, and mathematics. Students will gain an understanding of academic and career options and get a taste of what further study will look like in each STEM discipline.						
oc	EFA-101S-01	349677 T			3-4:50 PM	
	B. HSIAO		\$272.00	\$28.00	\$0.00	\$300.00

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-112 ELECTRONIC EQUIPMENT AND ASSEMBLY I, 1 CREDIT
This is the first course in a three course sequence. Focus is on building and testing simple DC prototype circuits. Covers DC power supplies, DMMs, breadboarding, resistor codes, and capacitor codes. Spreadsheets will be used to organize and analyze data.

OC NCT	EET-112-01	349659 MW			4:30 -5:20 PM	
	B. PALACIOS		\$136.00	\$14.00	\$43.50	\$193.50

EET-127 SEMICONDUCTOR CIRCUITS I, 2 CREDITS
Introduction to the basic concepts of semiconductor devices. Various types of diodes and diode applications will be studied. Industry standard devices will be used.

Prerequisites: EET-142

Recommended Prerequisites: MTH-112Z

oc	EET-127-01	349661 MW			5:30 -7:20 PM	
	J. KUEBLER		\$272.00	\$28.00	\$87.00	\$387.00

EET-137 ELECTRICAL FUNDAMENTALS I, 4 CREDITS
Introduction to the basic concepts of voltage, current, resistance and their relationships in DC circuits. Use SI units, engineering notation and prefixes. Analysis of series, parallel and series-parallel circuits will be made using Ohm's & Kirchhoff's laws.

Prerequisite or Corequisite: EET-112 and MTH-095

OC NCT	EET-137-01	349662 MW			12-3:50 PM	
	M. FARRELL		\$544.00	\$56.00	\$174.00	\$774.00

EET-139 PRINCIPLES OF TROUBLESHOOTING I, 2 CREDITS
Emphasizes theories and practices useful in troubleshooting failures in electrical applications. Focuses on the overall philosophy and strategy of troubleshooting, drawing applications from residential and varied industrial situations. Includes laboratory projects.

Recommended Prerequisite or Corequisite: EET-112, and EET-137 or MFG-130

OC NCT	EET-139-01	349664 TH			5-7:50 PM	
	M. BABCOCK		\$272.00	\$28.00	\$87.00	\$387.00
oc	EET-139-02	354423 TH			5-7:50 PM	
	M. TIZO		\$272.00	\$28.00	\$87.00	\$387.00

EET-157 DIGITAL LOGIC I, 3 CREDITS
An introduction to digital logic principles, numbering systems & conversions and gate operations. Using principles, circuit analysis will be used to minimize logic networks. Industry standard devices will be used.

Prerequisite or Corequisite: EET-112

Recommended Prerequisites: MTH-065

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Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total
OC	EET-157-01	349666 MW			5:30 -8:20 PM	
	B. PALACIOS		\$408.00	\$42.00	\$130.50	\$580.50

EET-215 TECHNICAL MECHANICS, 3 CREDITS

Introduction to mechanics. Covers theory of force, work, torque, energy, power, strength, and motion. Vectors and simple machines provide applications for these concepts.

Prerequisites: MTH-080 or MTH-112Z or EET-142

OC NCT	EET-215-01	349669 MW			1-3:50 PM	
	J. TRAVER		\$408.00	\$42.00	\$130.50	\$580.50

EET-239 PRINCIPLES OF TROUBLESHOOTING II, 2 CREDITS

Covers advanced applications of diagnosis, maintenance and repair of systems. Includes preventative maintenance, applied statistical process, and AC/DC motor controls.

Prerequisites: EET-139; EET-141 or MFG-131

Recommended Prerequisites: IMT-223

OC NCT	EET-239-01	349672 M			9-11:50 AM	
	M. FARRELL		\$272.00	\$28.00	\$87.00	\$387.00

SM-150 SEMICONDUCTOR PROCESSING I, 2 CREDITS

Provides general background knowledge on the processes required to manufacture integrated circuit devices, beginning with silicon material preparation and ending with final assembly and test of a completed device. Micro-contamination is also covered.

oc	SM-150-01	349986 TH			2-3:50 PM	
	M. FARRELL		\$272.00	\$28.00	\$87.00	\$387.00

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

Cooperative work experience. Practical experience in the high-tech industry. 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 NCT	SM-280-01	349988				
	C. CONNORS		\$816.00	\$84.00	\$255.00	\$1,155.00V
Required: Student Petition. 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.

ONL	EMP-201-01	353210				
	M. STRAUCH		\$544.00	\$56.00	\$0.00	\$600.00

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

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	353211				
	J. MERTEN		\$408.00	\$42.00	\$0.00	\$450.00

EMP-206 HAZARD MITIGATION, 3 CREDITS

This course will introduce the major principles involved in preparing for and mitigating the impact of hazards in the context of emergency and disaster management. Topics include key features and characteristics of various hazards, both natural and man-made, the risk assessment process that is used to determine community vulnerability, and in-depth discussion of hazard mitigation planning.

ONL	EMP-206-01	353207				
	J. MERTEN		\$408.00	\$42.00	\$0.00	\$450.00

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	353212				
	D. FERGUSON		\$544.00	\$56.00	\$0.00	\$600.00

EMP-224 SCIENCE OF DISASTERS, 2 CREDITS

This course will introduce students to scientific concepts and principles in several key areas related to natural and human-caused disasters. The course focuses on common and emerging threats that provide a basis for understanding the science of disaster.

ONL	EMP-224-01	353208				
	D. FERGUSON		\$272.00	\$28.00	\$0.00	\$300.00

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.

Prerequisites: EMT-105 with a C or better

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

Required: Students must complete the EMT Program application, available on the program webpage. Conditionally accepted students are required to attend mandatory orientation and fulfill all Oregon Health Authority requirements for students in clinical training before registering for courses. Formal acceptance into the program is required for enrollment

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

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 HYB	EMT-101-01	348838 MWF			6-9:20 PM	
	C. DUNN		\$816.00	\$84.00	\$400.00	\$1,300.00
	N. HUNGERFORD-LEVINE					
	T. SAWZAK					
	Contact healthsciences@clackamas.edu for enrollment information.					

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	348839				
	T. SAWZAK		\$408.00	\$42.00	\$0.00	\$450.00
ONL	EMT-105-02	348840				
	T. SAWZAK		\$408.00	\$42.00	\$0.00	\$450.00

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

REM	ENGR-111-01	349679 MW			8:30 -9:50 AM	
	A. SCHER		\$408.00	\$42.00	\$10.00	\$460.00
OC	ENGR-111-02	349681 TTH			3-4:20 PM	
	J. NURMI		\$408.00	\$42.00	\$10.00	\$460.00
OC	ENGR-111-03	353220 MW			10-11:20 AM	
	TBA		\$408.00	\$42.00	\$10.00	\$460.00

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

ONL	ENGR-112-01	349682				
	R. ALBERS		\$408.00	\$42.00	\$0.00	\$450.00

ENGR-211 STATICS, 4 CREDITS

First term of engineering mechanics sequence. This course focuses on the analysis of forces acting on structures and machines under equilibrium conditions.

Prerequisites: MTH-252Z

Prerequisite or Corequisite: PH-211

OC	ENGR-211-01	349684 MW			3-4:50 PM	
	B. DANIELS		\$544.00	\$56.00	\$20.00	\$620.00

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	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
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ENGR-221 ELECTRICAL CIRCUIT ANALYSIS I, 4 CREDITS

Designed to give the student a thorough understanding of basic electrical circuit theory, this course covers voltage and current relationships and fundamental methods of circuit analysis. Electrical circuit parameters such as resistance, inductance, and capacitance will be examined through theory and laboratory experiments.

Corequisites: ENGR-221L

Prerequisites: MTH-252Z

Recommended Prerequisite or Corequisite: ENGR-112

oc	ENGR-221-01	349685 T			9-11:50 AM					
	M. FARRELL		\$544.00	\$56.00	\$52.00	\$652.00				

ENGR-221L ELECTRICAL CIRCUIT ANALYSIS I LAB, 0 CREDIT

Lab Course for ENGR-221

Corequisites: ENGR-221

Recommended Prerequisite or Corequisite: ENGR-112

oc	ENGR-221L-01	349686 TH			9-11:50 AM					
	M. FARRELL		\$0.00	\$0.00	\$0.00	\$0.00				

English Composition

See Writing

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	348913 MW			9-11:50 AM					
	D. VERMILLION		\$0.00	\$0.00	\$60.00	\$60.00				
	Required: Student Petition.									
HAR LCT	ESOL-012-06	348916 MW			6-8:50 PM					
	T. NIKOLOPOULOS		\$0.00	\$0.00	\$60.00	\$60.00				
	Required: Student Petition.									
HAR LCT	ESOL-012-07	348919 MW			6-8:50 PM					
	K. HOLLOWAY		\$0.00	\$0.00	\$60.00	\$60.00				
	Required: Student Petition.									

ESOL-013 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. This course introduces the same skills as ESOL-012, but provides fewer hours toward developing mastery. Required: Student Petition.

REM NCT	ESOL-013-06	353139 MW			7:30 -8:50 PM					
	TBA		\$0.00	\$0.00	\$35.00	\$35.00				
	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.

OC NCT	ESOL-015-01	348922 TTH			9-11:50 AM					
	J. RUEDA		\$0.00	\$0.00	\$65.00	\$65.00				
	Required: Student Petition.									
HAR NCT	ESOL-015-06	348925 TTH			6-8:50 PM					
	D. VERMILLION		\$0.00	\$0.00	\$65.00	\$65.00				
	Required: Student Petition.									
HAR NCT	ESOL-015-07	348926 TTH			6-8:50 PM					
	K. HOLLOWAY		\$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	348928 MW			10:30 -11:50 AM					
	J. RUEDA		\$0.00	\$0.00	\$35.00	\$35.00				
	Required: Student Petition.									
HAR NCT	ESOL-020-06	348930 MW			6-7:20 PM					
	K. EMENS-HESSLINK		\$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	348936 MW			7:30 -8:50 PM					
	K. EMENS-HESSLINK		\$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	348937 TTH			9-11:50 AM					
	T. NIKOLOPOULOS		\$0.00	\$0.00	\$60.00	\$60.00				
	Required: Student Petition.									
HAR LCT	ESOL-024-06	348940 TTH			6-8:50 PM					
	T. NIKOLOPOULOS		\$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.

OC LCT	ESOL-030-01	348943 MW			10:30 -11:50 AM					
	A. FRANZONI		\$0.00	\$0.00	\$30.00	\$30.00				
	Required: Student Petition.									
HAR LCT	ESOL-030-06	348945 MW			6-7:20 PM					
	J. STENSETH		\$0.00	\$0.00	\$30.00	\$30.00				
	Required: Student Petition.									

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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
ESOL-031 INTERMEDIATE GRAMMAR B, 0 CREDIT								OC NCT ESOL-044-01 348963 TTH							
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.								L. JOYCE \$0.00 \$0.00 9-11:50 AM \$70.00 \$70.00							
Required: Student Petition.								Required: Student Petition.							
HAR LCT ESOL-031-06 348947 MW								HAR NCT ESOL-044-06 353178 TTH							
I. FERGUSON \$0.00 \$0.00 6-7:20 PM \$30.00 \$30.00								A. FRANZONI \$0.00 \$0.00 6-8:50 PM \$70.00 \$70.00							
Required: Student Petition.								Required: Student Petition.							
REM LCT ESOL-031-07 353140 MW															
L. MYERS \$0.00 \$0.00 6-7:20 PM \$30.00 \$30.00															
Required: Student Petition.															
ESOL-032 INTERMEDIATE CONVERSATION 1, 0 CREDIT								ESOL-046 EDITING FOR BETTER WRITING, 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.								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-032-01 348949 MW								OC NCT ESOL-046-01 348966 TTH							
A. FRANZONI \$0.00 \$0.00 9-10:20 AM \$30.00 \$30.00								K. LONG \$0.00 \$0.00 9-11:50 AM \$70.00 \$70.00							
Required: Student Petition.								Required: Student Petition.							
HAR LCT ESOL-032-06 348951 MW								HAR NCT ESOL-046-06 348969 TTH							
S. CAISSE \$0.00 \$0.00 7:30 -8:50 PM \$30.00 \$30.00								S. MUNRO \$0.00 \$0.00 6-8:50 PM \$70.00 \$70.00							
Required: Student Petition.								Required: Student Petition.							
REM LCT ESOL-032-07 353141 MW															
L. MYERS \$0.00 \$0.00 7:30 -8:50 PM \$30.00 \$30.00															
Required: Student Petition.															
ESOL-034 INTERMEDIATE READING & WRITING, 0 CREDIT								ESOL-051 ADVANCED GRAMMAR B, 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.								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-034-01 348953 TTH								OC LCT ESOL-051-01 353137 MW							
S. CAISSE \$0.00 \$0.00 9-11:50 AM \$60.00 \$60.00								K. LONG \$0.00 \$0.00 10:30 -11:50 AM \$30.00 \$30.00							
Required: Student Petition.								Required: Student Petition.							
HAR LCT ESOL-034-06 348955 TTH								HAR LCT ESOL-051-06 353138 MW							
S. CAISSE \$0.00 \$0.00 6-8:50 PM \$60.00 \$60.00								S. CAISSE \$0.00 \$0.00 6-7:20 PM \$30.00 \$30.00							
Required: Student Petition.								Required: Student Petition.							
ESOL-042 UPPER INTERMEDIATE CONVERSATION 1, 0 CREDIT								ESOL-052 ADVANCED COMMUNICATION SKILLS 1, 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. Required: Student Petition.								English language learners practice speaking and listening strategies for effective communication in discussions, presentations, lectures, note-taking, and group projects. The course builds vocabulary, critical thinking skills, and an awareness of non-verbal communication. The focus of this course is to prepare students for college success. Aligns with the Oregon Adult English Language Proficiency Standards, Level 4 & 5. Required: Student Petition.							
OC LCT ESOL-042-01 348957 MW								OC LCT ESOL-052-01 348976 MW							
J. STENSETH \$0.00 \$0.00 9-10:20 AM \$30.00 \$30.00								J. RUEDA \$0.00 \$0.00 9-10:20 AM \$30.00 \$30.00							
Required: Student Petition.								Required: Student Petition.							
HAR LCT ESOL-042-06 348960 MW								HAR LCT ESOL-052-06 348979 MW							
J. STENSETH \$0.00 \$0.00 7:30 -8:50 PM \$30.00 \$30.00								I. FERGUSON \$0.00 \$0.00 7:30 -8:50 PM \$30.00 \$30.00							
Required: Student Petition.								Required: Student Petition.							
ESOL-044 UPPER INTERMEDIATE READING & WRITING, 0 CREDIT								ESOL-054 ADVANCED 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.								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.							
HAR NCT ESOL-054-06 348985 TTH								HAR NCT ESOL-054-06 348985 TTH							
I. FERGUSON \$0.00 \$0.00 6-8:50 PM \$70.00 \$70.00								I. FERGUSON \$0.00 \$0.00 6-8:50 PM \$70.00 \$70.00							
Required: Student Petition.								Required: Student Petition.							
ESOL-062 ESOL READING, 0 CREDIT															

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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
English language learners at all levels improve their reading fluency and expand and solidify their English vocabulary as needed for higher-level academics and everyday life. (Aligns with the Oregon Adult English Language Proficiency Standards, Levels 2-4; and Oregon Adult College and Career Readiness Reading Fundamentals) Required: Student Petition.							Literature of the ancient through classical worlds: epic, lyric, and dramatic literature. 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.						
OC NCT	ESOL-062-01	348987 MW			12:30 -1:50 PM		Recommended Prerequisites: WRD-098 or placement in WR-121Z						
	K. LONG		\$0.00	\$0.00	\$30.00	\$30.00	ONL	ENG-107-01	349511				
	Required: Student Petition.							A. WARREN		\$544.00	\$56.00	\$0.00	\$600.00
ESOL-082 ASSESS/EVALUATE NEW STUDENTS, 0 CREDIT							ENG-116 INTRODUCTION TO LITERATURE: COMICS, 4 CREDITS						
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.							Examines the intrinsic literary and artistic qualities of comics, as well as their connections to classic literature, and the literature and other art they have inspired.						
							Recommended Prerequisites: WRD-098 or placement in WR-121Z						
ONL NCT	ESOL-082-01	348991					ONL	ENG-116-01	349513				
	L. JOYCE		\$0.00	\$0.00	\$0.00	\$0.00		T. DODGE		\$544.00	\$56.00	\$0.00	\$600.00
	Required: Student Petition.						ENG-121 MYSTERY FICTION, 4 CREDITS						
ONL NCT	ESOL-082-06	348993					Introduces students to detective/mystery fiction, exploring what makes genre fiction different from traditional literature and how mysteries comment on issues of justice, class, and morality. Students will read, discuss, and analyze short stories and novels by writers, such as Edgar Allan Poe, Agatha Christie, and Walter Mosley.						
	L. JOYCE		\$0.00	\$0.00	\$0.00	\$0.00	Recommended Prerequisites: WRD-098 or placement in WR-121Z						
	Required: Student Petition.						ONL NCT	ENG-121-01	349515				
								J. DAVIS		\$544.00	\$56.00	\$0.00	\$600.00
ESOL-083 EDUCATIONAL PLANNING FOR RETURNING STUDENTS, 0 CREDIT							ENG-194 INTRODUCTION TO FILM, 4 CREDITS						
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.							Viewing, discussion, and analysis of films from a variety of eras and cultures. Students will learn to analyze a film beyond its surface meaning, drawing on film aesthetics, technology, history, and theory. The interpretive and critical thinking skills they develop can be applied to a variety of modern media.						
ONL NCT	ESOL-083-01	348995					Recommended Prerequisites: WRD-098 or placement in WR-121Z						
	L. JOYCE		\$0.00	\$0.00	\$0.00	\$0.00	OC NCT	ENG-194-01	349517 TTH			1-2:50 PM	
	Required: Student Petition.							R. DAVIS		\$544.00	\$56.00	\$0.00	\$600.00
ONL NCT	ESOL-083-06	348996					ENG-204 BRITISH LITERATURE: ANCIENT TO ENLIGHTENMENT, 4 CREDITS						
	L. JOYCE		\$0.00	\$0.00	\$0.00	\$0.00	In this class, we read, analyze, and enjoy British literature from the earliest Anglo-Saxon poems and stories through 1800. We will explore major works, writers, and literary forms through interactive discussions and projects.						
	Required: Student Petition.						Recommended Prerequisites: WRD-098 or placement in WR-121Z						
OC NCT	ENG-104Z-01	349509 TTH			10-11:50 AM		OC NCT	ENG-204-01	353131 TTH			1-2:50 PM	
	C. BURNELL		\$544.00	\$56.00	\$0.00	\$600.00		T. DONNELLY		\$544.00	\$56.00	\$0.00	\$600.00
ENG-107 WORLD LITERATURE: ANCIENT THROUGH CLASSICAL TIMES, 4 CREDITS							ENG-226 POPULAR LITERATURE, 4 CREDITS						
							Focuses on genre work within prose, film, comics and/or videogames that is specific in theme and has popular appeal accessible to general readers. Genres might include but are not necessarily limited to horror, fantasy, gothic, romance, and/or westerns. May be repeated for up to 8 credits.						
							Recommended Prerequisites: WRD-098 or placement in WR-121Z						
OC LCT	ENG-226-01	349519 MW			10-11:50 AM		OC LCT	ENG-226-01	349519 MW			10-11:50 AM	
	J. MCALPINE		\$544.00	\$56.00	\$0.00	\$600.00		J. MCALPINE		\$544.00	\$56.00	\$0.00	\$600.00
	Focus area on WWII Historical Fiction.							Focus area on WWII Historical Fiction.					

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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	

ENG-271 WORLD LITERATURE: ANCIENT THROUGH CLASSICAL TIMES, 4 CREDITS

Literature of the ancient through classical worlds: epic, lyric, and dramatic literature. 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-271-01	349525				
	A. WARREN	\$544.00	\$56.00	\$0.00	\$600.00	

ENG-297 A.S. DEGREE PORTFOLIO, 1 CREDIT

This course provides the opportunity for A.S. Degree students to revise, edit, reflect upon, and compile their best work from their various focus areas to meet the outcomes for the program and prepare for transfer to a university.

Required: Students must be in the second year of their course of study, and have the majority of their focus area and transfer requirements complete

ONL	ENG-297-01	349528				
	N. ROSEVEAR	\$136.00	\$14.00	\$0.00	\$150.00	

Required: Student Petition.

Environmental Science

ESR-171 INTRODUCTION TO ENVIRONMENTAL SCIENCE, 4 CREDITS

Introduction to environmental science topics. Will focus on human impacts on land, air, water and ecology, climate change, sustainability, environmental impacts on human health and environmental justice. The laboratory assignments will focus on applied introductory environmental science topics.

Corequisites: ESR-171L

Recommended Prerequisites: MTH-060 or MTH-098 with a C or better, or placement in MTH-065

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

OC	ESR-171-01	349688	TTH	1-2:20 PM		
	E. CAVALIERE	\$544.00	\$56.00	\$55.00	\$655.00	
	Corequisite: Take 1 of the following ESR-171L-01, ESR-171L-02, ESR-171L-03, ESR-171L-04.					
ONL	ESR-171-15	349691				
	S. BALLEW	\$544.00	\$56.00	\$55.00	\$655.00	
	This section has an in-person lab requirement. Corequisite: Take the following ESR-171L-15.					
ONL	ESR-171-40	349689				
	E. CAVALIERE	\$544.00	\$56.00	\$55.00	\$655.00	
	This section has an in-person lab requirement. Corequisite: Take 1 of the following ESR-171L-01, ESR-171L-02, ESR-171L-03, ESR-171L-04.					
ONL	ESR-171-41	349690				
	E. CAVALIERE	\$544.00	\$56.00	\$55.00	\$655.00	
	Corequisite: Take 1 of the following ESR-171L-01, ESR-171L-02, ESR-171L-03, ESR-171L-04.					

ESR-171L INTRODUCTION TO ENVIRONMENTAL SCIENCE LAB, 0 CREDIT

Lab course for ESR-171

Corequisites: ESR-171

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	ESR-171L-01	349692	T	9-11:50 AM		
	E. CAVALIERE	\$0.00	\$0.00	\$0.00	\$0.00	
	Corequisite: Take 1 of the following ESR-171-01, ESR-171-40, ESR-171-41.					
OC	ESR-171L-02	349693	W	9-11:50 AM		
	D. HUFFORD	\$0.00	\$0.00	\$0.00	\$0.00	
	Corequisite: Take 1 of the following ESR-171-01, ESR-171-40, ESR-171-41.					
OC	ESR-171L-03	349695	W	1-3:50 PM		
	E. CAVALIERE	\$0.00	\$0.00	\$0.00	\$0.00	
	Corequisite: Take 1 of the following ESR-171-01, ESR-171-40, ESR-171-41.					
OC	ESR-171L-04	349696	TH	2:30 -5:20 PM		
	E. CAVALIERE	\$0.00	\$0.00	\$0.00	\$0.00	
	Corequisite: Take 1 of the following ESR-171-01, ESR-171-40, ESR-171-41.					
HAR	ESR-171L-15	349697	TH	6-8:50 PM		
	S. BALLEW	\$0.00	\$0.00	\$0.00	\$0.00	
	Corequisite: Take the following ESR-171-15.					

Ethnic Studies

ES-101 INTRODUCTION TO ETHNIC STUDIES, 4 CREDITS

This course uses an interdisciplinary approach to introduce the multifaceted experience of historically marginalized ethnic and racial groups in the US with an emphasis on Chicano/Latinx, African American, Native American/US First Nations, and Asian Americans. Students will explore theory of the development of race and ethnicity in the US, systemic oppression, comparative historical perspectives, and political resistance and movements, including modern abolitionism and de-colonization.

Recommended Prerequisite or Corequisite: FYE-101

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

ONL NCT	ES-101-01	353115				
	R. MOFFETT	\$544.00	\$56.00	\$0.00	\$600.00	

ES-211 INTRODUCTION TO LATINO/A/X STUDIES, 4 CREDITS

An introductory course analyzing the historical context of Latinx in the United States (US). Beginning with pre-colonial societies on the American Continent, colonization, and moving to the modern Latinx diaspora. Special attention will be given to particular events that shaped and continue to influence the Latinx experience, such as the Mexican-American War, US expansionism, US immigration policy, the Chicano Movement, US foreign policy in Latin America, and the contemporary discourse regarding Latinx in the US.

Recommended Prerequisites: WR-121Z

ONL	ES-211-01	349530				
	L. MARTINEZ	\$544.00	\$56.00	\$0.00	\$600.00	

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.

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Other Coding Translations:
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Course Listing

2026/FA

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Crs. Fee	Total
ONL	HDF-225-01 349660 D. GLASCOCK This section is an accelerated 5-week online course that runs between 11/1 - 12/5.					\$408.00	\$42.00	\$0.00	\$450.00
HDF-225ES	DESARROLLO DE LAS ETAPAS PRENATAL, INFANTES Y DE NIÑOS PEQUEÑOS, 4 CREDITS Se enfoca en la exploración del desarrollo y factores que influyen áreas relacionadas con lo físico, cognitivo y socio-emocional en los niños desde la etapa prenatal hasta los tres años de edad. Se examinarán teorías relacionadas con estas etapas, así como la influencia del lenguaje y la cultura en el desarrollo y crianza.								
REM LCT ESPAÑOL	HDF-225ES-01 349663 TH P. ALVARADO La clase se reúne seis jueves por Zoom (10/1, 10/15, 10/29, 11/12, 11/26, 12/10) de 6:00 PM to 7:50PM.					\$544.00	\$56.00	\$0.00	\$600.00
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.								
OC HYB	HDF-260-01 349667 T C. BAKER This class meets every other Tuesday (9/29, 10/13, 10/27, 11/10, 11/24) from 10:00AM to 11:50AM.					\$408.00	\$42.00	\$0.00	\$450.00
FRP-101	BASIC FOREST MANAGEMENT, 3 CREDITS An introduction to forestry and forest land management activities and practices related to forest stewardship. Students will gain an understanding of how social, economic and environmental values influence current forest policies and regulations. Corequisites: FRP-102								
OC	FRP-101-01 349538 M TBA					\$408.00	\$42.00	\$0.00	\$450.00
FRP-102	BASIC FOREST MANAGEMENT LAB, 1 CREDIT Provides lab exercises in a forest setting experience using forest management field equipment discussed in FRP-101. The Lab includes the use of diameter tape, loggers tape, compass, clinometer, increment borer and wedge prism to measure tree height, diameter, tree age, diameter increment and basal area. Through the use of fixed plot and variable plot forest sampling methods the students will gain the skills to gather data necessary to calculate stocking, volume and growth. Corequisites: FRP-101								
OC LCT	FRP-102-01 349539 W TBA					\$136.00	\$14.00	\$110.00	\$260.00
FRP-110	BASIC WILDLAND FIRE INVESTIGATION (FI-110), 1 CREDIT								
	An introduction to the roles and responsibilities of wildland firefighters in determining a wildland fire origin. Students will identify the wildland fire categories, wildland fire behavior and the initial observations made by the firefighter responding to and arriving at a wildland fire. The primary emphasis of this course is to teach sound wildland fire observations and origin scene protection practices that enable first responders to a wildland fire scene to perform proper origin scene protection procedures. Prerequisites: FRP-130 (S-130/S-190)								
OC	FRP-110-01 349540 T J. GULLEY Meets: 12/1.					\$136.00	\$14.00	\$25.00	\$175.00
FRP-112	INTRODUCTION TO CHAINSAW OPERATIONS, 3 CREDITS The course lessons provide introduction to the function, maintenance and use of internal combustion engine powered chainsaws, and their tactical wildland fire application. Field exercises support entry level training for firefighters with little or no previous experience in operating a chainsaw, providing hands-on cutting experience in surroundings similar to fireline situations. Required: Student Petition. Prerequisites: FRP-130 (S-130/S-190), FRP-249 (L-280), FRP-250, and FRP-255 Required: Students must be at least 18 years of age. Must have current first aid, CPR and AED certification								
OC	FRP-112-01 353167 MFSSU J. GULLEY Meets: 10/9-10/12.					\$408.00	\$42.00	\$225.00	\$675.00
FRP-131	ADVANCED FIREFIGHTER TRAINING (S-131/S-133), 1 CREDIT This course provides instruction that meets the training requirements for the Wildland Firefighter Type 1 position and/or Incident Commander Type 5 (ICT5). Prerequisites: FRP-130 (S-130/S-190)								
OC	FRP-131-01 349542 T B. ESTES Meets: 11/24-11/25.					\$136.00	\$14.00	\$20.00	\$170.00
FRP-140	INTRODUCTION TO WILDLAND FIREFIGHTING LAB, 1 CREDIT This hands-on laboratory course provides applied experience in foundational wildland firefighting principles, skills, and safety practices aligned with the National Wildfire Coordinating Group (NWCG) S-130 and S-190 standards. Students will gain practical proficiency in wildland fire behavior interpretation, fireline tools and equipment, firefighter safety, and basic suppression techniques through field-based exercises, simulations, and scenario-based training. Emphasis is placed on understanding fire environment factors, reading fuel types, implementing safe work practices, applying teamwork skills, and reinforcing situational awareness under varying conditions. Successful completion prepares students for entry-level fieldwork and supports readiness for further wildland fire qualifications. Corequisites: FRP-130 (S-130/S-190)								
OC	FRP-140-01 353463 TTH J. GULLEY Meets: 10/13-10/29.					\$136.00	\$14.00	\$50.00	\$200.00
FRP-150	CAREERS IN WILDLAND FIRE (L-180, S-110), 2 CREDITS								

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Instructor		Instructor		Tuition	Fee	Crs. Fee
This course introduces students to the wildland fire profession through an examination of the wildland fire season, organizational structure, and human factors influencing firefighter performance. Curriculum is aligned with National Wildfire Coordinating Group (NWCG) S-110 and L-180 standards and incorporates analysis of the previous fire season to provide current, real-world context. Students will explore wildland fire agency roles, operational culture, and multiple career pathways within federal, state, local, and private fire organizations. Emphasis is placed on foundational professionalism, decision-making, communication, and accountability in the wildland fire environment. The course also prepares students for entry into the wildland fire workforce through resume development, hiring process navigation, and participation in fire hiring events. Corequisites: FRP-130 (S-130/S-190)						
oc	FRP-150-01	353464 TTH				10-4:00 PM
	J. GULLEY	\$272.00	\$28.00	\$20.00	\$320.00	
	Meets: 11/3-11/12.					
FRP-200	BASIC INCIDENT COMMAND SYSTEM (I-100, I-200, IS-700, IS-800), 1 CREDIT					
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	349543 TTH				10-4:00 PM
	J. GULLEY	\$136.00	\$14.00	\$0.00	\$150.00	
	Meets: 11/17-11/19.					
FRP-243	WILDERNESS I: PSYCHOLOGY OF SURVIVAL, 3 CREDITS					
Students will learn how to be mentally and physically prepared to survive in the wilderness, the psychology of surviving, and what to do when things go wrong. The course explores the science of survival. Other topics include disaster preparedness, ropes and knots, heat related injuries and increasing situation awareness.						
oc	FRP-243-01	349548 M				12-2:50 PM
	M. ADAMS	\$408.00	\$42.00	\$25.00	\$475.00	
	There is a field day, date TBD, that is mandatory to complete the class.					
FRP-245	WILDERNESS III: WEATHER OF THE NORTHWEST, 2 CREDITS					
This course covers the basics of weather forecasting, especially as it relates to the weather of the Northwest.						
oc	FRP-245-01	349550 W				10-11:50 AM
	J. SALTENBERGER	\$272.00	\$28.00	\$20.00	\$320.00	
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	349552 F				5-8:30 PM
	B. ESTES	\$544.00	\$56.00	\$50.00	\$650.00	
	Meets: 11/6-11/14.					
oc	FRP-246-02	353170 M				8-11:50 AM
	M. ADAMS	\$544.00	\$56.00	\$50.00	\$650.00	

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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	353171 THF				8-5:30 PM
	B. ESTES	\$272.00	\$28.00	\$50.00	\$350.00	
	Meets: 12/3-12/4.					

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	349553 TTH				8-9:50 AM
	B. ESTES	\$272.00	\$28.00	\$30.00	\$330.00	

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	349554 MW				9-9:50 AM
	D. GREEN	\$272.00	\$28.00	\$12.00	\$312.00	
OC LCT	FYE-101-02	349556 MW				10-10:50 AM
	T. DEXTER	\$272.00	\$28.00	\$12.00	\$312.00	
OC LCT	FYE-101-03	349560 MW				11-11:50 AM
	T. DEXTER	\$272.00	\$28.00	\$12.00	\$312.00	
OC LCT	FYE-101-04	349562 M				1-2:50 PM
	S. SCHAEFER	\$272.00	\$28.00	\$12.00	\$312.00	
OC LCT	FYE-101-05	349563 T				1-2:50 PM
	R. SWINDLE	\$272.00	\$28.00	\$12.00	\$312.00	
OC LCT	FYE-101-06	349567 W				1-2:50 PM
	J. CORTES	\$272.00	\$28.00	\$12.00	\$312.00	
OC LCT	FYE-101-07	349568 TTH				9-9:50 AM
	T. BOYLE- GALESTANTZ	\$272.00	\$28.00	\$12.00	\$312.00	
OC LCT	FYE-101-08	349570 TTH				11-11:50 AM
	M. BAKER	\$272.00	\$28.00	\$12.00	\$312.00	
OC LCT	FYE-101-09	349574 TTH				3-3:50 PM
	S. BABER	\$272.00	\$28.00	\$12.00	\$312.00	
OC LCT	FYE-101-10	349576 TH				1-2:50 PM
	R. SWINDLE	\$272.00	\$28.00	\$12.00	\$312.00	
ONL LCT	FYE-101-11	349577				
	D. WOOD	\$272.00	\$28.00	\$12.00	\$312.00	
ONL LCT	FYE-101-12	349580				
	J. CORTES	\$272.00	\$28.00	\$12.00	\$312.00	

Course Listing

2026/FA

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Crs. Fee	Total
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ONL LCT	FYE-101-13 349582		T. BOYLE- GALESTIANZ			\$272.00	\$28.00	\$12.00	\$312.00
OC LCT	FYE-101-14 349583 TTH		S. SCHAEFER		10-10:50 AM	\$272.00	\$28.00	\$12.00	\$312.00

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 349587 M		L. MARTINEZ		6-7:50 PM	\$272.00	\$28.00	\$12.00	\$312.00
REM LCT ESPAÑOL	FYE-101ES-02 349590 T		S. DIAZ-ZAVALA		6-7:50 PM	\$272.00	\$28.00	\$12.00	\$312.00

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 348841		T. SCOLLARD			\$408.00	\$42.00	\$97.03	\$547.03
	This course is not a prerequisite for the CCC Nursing Program. 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 348842		T. SCOLLARD			\$544.00	\$56.00	\$139.14	\$739.14
	Online textbook included in section fees.								
ONL	FN-225-02 348843		J. PAVLINAC			\$544.00	\$56.00	\$139.14	\$739.14
	Online textbook included in section fees.								
ONL	FN-225-03 348844		J. PAVLINAC			\$544.00	\$56.00	\$139.14	\$739.14
	Online textbook included in section fees.								

French

See World Languages

General Development Education (GED)

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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. Variable Hours: 40-66 hours. Required: Student Petition.

REM LCT ESPAÑOL	GED-011-01 349591 MW		A. ARISTIZABAL		5:30 -7:50 PM	\$0.00	\$0.00	\$50.00	\$50.00
	Requerido: petición del estudiante. For registration information contact Adriana Aristizabal at 503-594-3916 or register at first class.								
HAR LCT ESPAÑOL	GED-011-02 349595 TTH		G. AQUINO		6-8:50 PM	\$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 the 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. Variable Hours: 40-88 hours. Required: Student Petition.

OC LCT	GED-015-17 349598 MW		J. NIELSON		5:30 -7:50 PM	\$0.00	\$0.00	\$50.00	\$50.00
	A. WICKERT Required: Student Petition.								
HAR HYB LCT	GED-015-67 349600 MW		M. NICKAS		10-11:50 AM	\$0.00	\$0.00	\$60.00	\$60.00
	Required: Student Petition.								
ONL LCT	GED-015-68 349602		S. HATSWELL			\$0.00	\$0.00	\$60.00	\$60.00
	Required: Student Petition.								
ONL LCT	GED-015-69 349603		TBA			\$0.00	\$0.00	\$60.00	\$60.00
	Required: Student Petition.								
OC LCT	GED-015-80 349604 MTWTH		J. NIELSON		10-11:50 AM	\$0.00	\$0.00	\$60.00	\$60.00
	Required: Student Petition.								

GED-049 LATINO GED & LIFE SKILLS, 0 CREDIT

Course No	Course Title, Credits		Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
	Instructor				Tuition	Fee	Crs. Fee
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. Variable Hours: 24-66 hours. Required: Student Petition.							
HAR LCT ESPAÑOL	GED-049-03	349612 MW					9-11:50 AM
	A. ARISTIZABAL	\$0.00	\$0.00	\$50.00	\$50.00		
	Requerido: petición del estudiante.						
HAR LCT ESPAÑOL	GED-049-04	349615 S					9-11:50 AM
	M. ROSAS DELGADO	\$0.00	\$0.00	\$30.00	\$30.00		
	C. SANCHEZ						
	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	349717 MW					3-4:20 PM
	R. COLLINS	\$544.00	\$56.00	\$50.00	\$650.00		

GS-104L EARTH SYSTEM SCIENCE LAB, 0 CREDIT

Lab course for GS-104

Corequisites: GS-104

oc	GS-104L-01	349718 TH					1-3:50 PM
	R. COLLINS	\$0.00	\$0.00	\$0.00	\$0.00		

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	GS-107-40	349719					
	C. SHARON	\$544.00	\$56.00	\$25.00	\$625.00		

GS-107L ASTRONOMY LAB, 0 CREDIT

Lab course for GS-107

Corequisites: GS-107

ONL	GS-107L-40	349721					
	C. SHARON	\$0.00	\$0.00	\$0.00	\$0.00		

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.

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	Instructor				Tuition	Fee	Crs. Fee
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 LCT	GIS-101-01	349633 TH					10:30 -11:50 AM
	A. ARMEN	\$544.00	\$56.00	\$30.00	\$630.00		
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.							

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

OC HYB	GEO-100-01	349618 T					1-2:50 PM
	A. ARMEN	\$544.00	\$56.00	\$99.99	\$699.99		
	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	349622					
	C. FELDMAN	\$544.00	\$56.00	\$0.00	\$600.00		

GEO-130 INTRODUCTION TO ENVIRONMENTAL GEOGRAPHY, 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

Explores the contemporary global environmental problems such as: overpopulation, over consumption, ozone layer depletion, pollution, acid rain, deforestation, desertification, and waste problems. Examines alternative sources of energy to fossil fuel and sustainable development strategies.

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

ONL	GEO-130-01	349623				
	C. FELDMAN		\$544.00	\$56.00	\$114.99	\$714.99
	Online textbook included in section fees.					

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	GEO-280-01	349627				
	C. FELDMAN		\$816.00	\$84.00	\$45.00	\$945.00V
	D. LOUGEE					
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

Geology

G-101 GENERAL GEOLOGY, 4 CREDITS

For non-science majors. A lab course introducing geologic principles and concepts; Earth structure, igneous, sedimentary, and metamorphic rock environments, volcanic activity, and landforms. Lab requires students to identify ore minerals, rock forming minerals, igneous, metamorphic and sedimentary rocks.

Corequisites: G-101L

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

oc	G-101-01	349698 MW				
	A. KOTASH		\$544.00	\$56.00	\$50.00	\$650.00
	Corequisite: Take 1 of the following G-101L-01, G-101L-02.					
oc	G-101-02	349701 TTH				
	A. KOTASH		\$544.00	\$56.00	\$50.00	\$650.00
	Corequisite: Take 1 of the following G-101L-01, G-101L-02.					
REM	G-101-15	349702 T				
	J. WOODCOCK		\$544.00	\$56.00	\$50.00	\$650.00
	This section has an in-person lab requirement. Corequisite: Take the following G-101L-15.					

G-101L GENERAL GEOLOGY LAB, 0 CREDIT

Lab course for G-101

Corequisites: G-101

OC LCT	G-101L-01	349704 T				
	A. KOTASH		\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take 1 of the following G-101-01, G-101-02.					
OC LCT	G-101L-02	349706 W				
	A. KOTASH		\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take 1 of the following G-101-01, G-101-02.					
HAR LCT	G-101L-15	349707 TH				
	J. WOODCOCK		\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take the following G-101-15.					

G-201 GENERAL GEOLOGY, 4 CREDITS

For science majors. A lab course introducing geologic principles and concepts; weathering, soils, Earth structure, igneous, sedimentary, metamorphic rocks, volcanic activity, and landforms. Lab requires students to identify ore minerals, rock forming minerals, igneous, metamorphic and sedimentary rocks.

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Other Coding Translations:
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ESPAÑOL: Enseñado en español
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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

Corequisites: G-201L

Prerequisites: WRD-090 or placement in WRD-098

oc	G-201-01	349708 MW				
	A. KOTASH		\$544.00	\$56.00	\$50.00	\$650.00
	Corequisite: Take 1 of the following G-201L-01, G-201L-02.					
oc	G-201-02	349711 TTH				
	A. KOTASH		\$544.00	\$56.00	\$50.00	\$650.00
	Corequisite: Take 1 of the following G-201L-01, G-201L-02.					
REM	G-201-15	349712 T				
	J. WOODCOCK		\$544.00	\$56.00	\$50.00	\$650.00
	This section has an in-person lab requirement. Corequisite: Take the following G-201L-15.					

G-201L GENERAL GEOLOGY LAB, 0 CREDIT

Lab course for G-201

Corequisites: G-201

OC LCT	G-201L-01	349713 T				
	A. KOTASH		\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take 1 of the following G-201-01, G-201-02.					
OC LCT	G-201L-02	349714 W				
	A. KOTASH		\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take 1 of the following G-201-01, G-201-02.					
HAR LCT	G-201L-15	349716 TH				
	J. WOODCOCK		\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take the following G-201-15.					

German

See World Languages

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 LCT	GRN-181-01	349638				
	J. SHANNON		\$408.00	\$42.00	\$0.00	\$450.00

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 NCT	HE-163-01	349727				
	T. PANTAGES		\$408.00	\$42.00	\$0.00	\$450.00
ONL NCT	HE-163-02	349730				
	T. PANTAGES		\$408.00	\$42.00	\$0.00	\$450.00

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

Course Listing

2026/FA

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
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 NCT	HE-164-01	349732	T. PANTAGES			\$408.00	\$42.00	\$0.00		\$450.00
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	349735	T. NELSON			\$408.00	\$42.00	\$0.00		\$450.00
HE-204	NUTRITION & WEIGHT CONTROL, 3 CREDITS	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	349737	J. BUEL			\$408.00	\$42.00	\$0.00		\$450.00
HE-207	INTRODUCTION TO PLANT BASED LIVING, 3 CREDITS	The course is designed to give students a basic understanding of a plant based diet/lifestyle and the benefits of this type of lifestyle. Students will learn about the physical benefits of a plant based diet, organic foods, current environmental impacts of the big agricultural companies, animal welfare, and workers' rights as well as the research that has been documented to support the information.								
ONL NCT	HE-207-01	349742	T. NELSON			\$408.00	\$42.00	\$0.00		\$450.00
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	349743	J. BUEL			\$408.00	\$42.00	\$0.00		\$450.00
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	349746 MW	K. WOODS		1-2:20 PM	\$408.00	\$42.00	\$0.00		\$450.00
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.								

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ONL	HE-250-01	349751	J. RHODEN			\$408.00	\$42.00	\$0.00		\$450.00
ONL	HE-250-02	349753	J. RHODEN			\$408.00	\$42.00	\$0.00		\$450.00
Meets: 11/3-12/13.										

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 LCT	HE-252-01	349754	K. ARIZO			\$408.00	\$42.00	\$35.00		\$485.00
ONL LCT	HE-252-03	349755	T. NELSON			\$408.00	\$42.00	\$35.00		\$485.00
ONL LCT	HE-252-05	349757	K. WOODS			\$408.00	\$42.00	\$35.00		\$485.00

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

ONL	HPE-295-01	349807	T. NELSON			\$408.00	\$42.00	\$30.00		\$480.00
ONL	HPE-295-02	349812	J. BUEL			\$408.00	\$42.00	\$30.00		\$480.00
ONL	HPE-295-03	349814	J. RHODEN			\$408.00	\$42.00	\$30.00		\$480.00

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 NCT ESPAÑOL	HPE-295ES-01	349815	TBA			\$408.00	\$42.00	\$30.00		\$480.00
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Health Professions

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

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
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 348845 TBA	S. COOPER				\$136.00	\$14.00	\$15.00		\$165.00
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. The course will meet for four hours on the Harmony Campus one Friday during the term. More information will be given in the first couple weeks of class.										
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 348846	W. HARTJE				\$544.00	\$56.00	\$170.53		\$770.53
Online textbook included in section fees.										
ONL	HP-110-02 348847	S. DAVENPORT				\$544.00	\$56.00	\$170.53		\$770.53
Online textbook included in section fees.										
ONL	HP-110-03 348849	C. GARNER				\$544.00	\$56.00	\$170.53		\$770.53
Online textbook included in section fees.										
ONL	HP-110-04 348850	C. GARNER				\$544.00	\$56.00	\$170.53		\$770.53
Online textbook included in section fees.										
HP-120 INTRODUCTION TO HEALTH SCIENCES, 3 CREDITS	This course introduces students to Career Technical Education (CTE) Programs within Health Professions and prepares students for next steps in applying for competitive program entry. Prerequisites: WRD-098 or placement in WR-101									
ONL	HP-120-01 348851	S. DAVENPORT				\$408.00	\$42.00	\$0.00		\$450.00
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									
OC HYB	HST-101-01 349694 W	P. MCFARLAND				\$544.00	\$56.00	\$0.00		\$600.00
NCT	HST-101-02 349699	P. MCFARLAND				\$544.00	\$56.00	\$0.00		\$600.00
HST-103 HISTORY OF WESTERN CIVILIZATION, 4 CREDITS	Development of Western Civilization with an emphasis on Europe from the 19th century to the present. Recommended Prerequisites: WRD-090 or placement in WRD-098									
ONL NCT	HST-103-01 349700	P. MCFARLAND				\$544.00	\$56.00	\$0.00		\$600.00
HST-137 HISTORY OF SCIENCE, MEDICINE, & TECHNOLOGY IN WESTERN CIVILIZATION, 4 CREDITS	Explores the topics of science, medicine, and technology 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-137-01 349703	P. MCFARLAND				\$544.00	\$56.00	\$0.00		\$600.00
HST-201Z UNITED STATES HISTORY I, 4 CREDITS	Survey of North America and United States history to the early 1800s: Native America, European colonization, colonial development, origins of slavery, American Revolution, early Republic, and Market Revolution. Prerequisite or Corequisite: WRD-098 or placement in WR-121Z									
OC	HST-201Z-01 349705 MW	J. PARKER				\$544.00	\$56.00	\$61.89	1-2:50 PM	\$661.89
Online textbook included in section fees.										
ONL	HST-201Z-02 349709	J. PARKER				\$544.00	\$56.00	\$61.89		\$661.89
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 349710	P. MCFARLAND				\$816.00	\$84.00	\$45.00		\$945.00V
Required: Student Petition. Corequisite: Take the following CWE-281-06.										
Horticulture/Arboriculture/Landscape/Organic Farming										
For more information call 503-594-3292 or email horticulture@clackamas.edu										
HOR-111 HORTICULTURE PRACTICUM/FALL, 2 CREDITS	Practical experience with seasonal horticulture activities in the areas of container nurseries, greenhouses, landscape management, arboriculture, and organic food production.									
OC	HOR-111-01 349758 M	G. LOEFFLER				\$272.00	\$28.00	\$45.00	8-11:50 AM	\$345.00
HOR-112 HORTICULTURE CAREER EXPLORATION, 2 CREDITS	This course is a survey of the various career options available to students in the horticulture industry, with emphasis on nursery and greenhouse production, retail nursery, organic fruit and vegetable production, and landscape maintenance/installation. Includes field trips to local businesses. Oregon State University transfer course.									
OC	HOR-112-01 353133 W	C. WASHBURN				\$272.00	\$28.00	\$50.00	9-12:00 PM	\$350.00
Meets: 9/30-11/18.										

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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)	Time				Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time			
Instructor		Tuition	Fee	Crs. Fee	Total		Instructor		Tuition	Fee	Crs. Fee	Total	
HOR-113 ORGANIC FARMING PRACTICUM/FALL, 3 CREDITS													
Essential organic farming practices, including seasonal activities such as crop rotation, cover cropping, four-season production strategies, soil testing, and calculating soil amendment needs. Class lecture, field trips, and lab are all included 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-113-01	349760 T			8-11:50 AM								
	D. ROSTAD		\$408.00	\$42.00	\$75.00	\$525.00							
HOR-115 HORTICULTURE SAFETY, 1 CREDIT													
Introduction to situational awareness and safe practices in the horticulture workplace to reduce the risk or chance for accidents and injuries.													
ONL NCT	HOR-115-01	349762											
	E. ROBERTS		\$136.00	\$14.00	\$15.00	\$165.00							
	Meets: 9/28-10/30.												
HOR-118 SPANISH FOR HORTICULTURE, 4 CREDITS													
This course introduces basic vocabulary and structures of the Spanish language for students to be able to communicate in the Horticultural environment. The class introduces students to the culture of the Spanish speaking people, especially those that reside in their own area and within the United States. The course emphasizes oral communication, but all four skills of language are introduced: listening, speaking, reading and writing.													
OC NCT	HOR-118-01	349765 MW			3-4:50 PM								
	G. LOEFFLER		\$544.00	\$56.00	\$15.00	\$615.00							
HOR-124 FOOD HARVEST, 3 CREDITS													
This course provides a basic knowledge of aspects of harvesting, handling, storing, and marketing of produce from small-scale, organic operations. Topics include: food safety laws and practices, harvest and storage requirements for a variety of crops, factors that impact quality and storage ability, post-harvest biology, Organic certification standards, and regulations for selling value added products. Students in this class will be actively harvesting, washing, packing, and selling produce from the Student Organic Farm.													
OC NCT	HOR-124-01	349767 W			8-11:50 AM								
	D. ROSTAD		\$408.00	\$42.00	\$75.00	\$525.00							
HOR-130 PLANT PROPAGATION TECHNIQUES, 3 CREDITS													
Covers plant anatomy and reproduction techniques of plants from seed, cuttings, grafting, division, and micro-propagation (tissue culture). Offers an in-depth overview of plant propagation practices.													
OC NCT	HOR-130-01	349769 TH			8-11:50 AM								
	G. LOEFFLER		\$408.00	\$42.00	\$35.00	\$485.00							
HOR-212 FLOWER ARRANGER'S GARDEN, 2 CREDITS													
Learn essential fall flower farming techniques including planting, season extension, harvest, and conditioning of cut-flowers. Includes basic floral design and installation techniques. Instruction includes production of bouquets, dried arrangements, wreaths, and small installations. Ideal for garden designers, home flower gardeners, and growers of commercial cutting gardens.													
OC HYB LCT	HOR-212-01	349772 F			8-11:50 AM								
	D. ROSTAD		\$272.00	\$28.00	\$65.00	\$365.00							
	Meets: 10/2-10/30.												
HOR-213 COMPUTER-AIDED LANDSCAPE DESIGN, 3 CREDITS													
Develop skills with Computer-aided design (CAD) software for creating landscape designs. Practice techniques utilized in common CAD programs used in the landscape industry.													
Recommended Prerequisites: CS-120 or comparable computer skills													
OC NCT	HOR-213-01	349773 M			1-4:50 PM								
	T. HEALEA		\$408.00	\$42.00	\$60.00	\$510.00							
	The course will utilize Vectorworks, a free design software available to students.												
HOR-223 APPLIED PLANT SCIENCE, 4 CREDITS													
An overview of the practical aspects of plant growth and development, classification systems, plant breeding and environmental factors in managing plant growth.													
OC LCT	HOR-223-01	349774 MW			1-2:50 PM								
	C. KONIECZKA		\$544.00	\$56.00	\$30.00	\$630.00							
HOR-224 LANDSCAPE INSTALLATION, 3 CREDITS													
Materials and practices in landscape installation, including plan reading, materials take-off, estimating, bidding, scheduling, grading, construction materials, and plant installation. Provides an overview of Oregon state landscape contracting and licensing requirements.													
Recommended Prerequisites: MTH-050													
OC	HOR-224-01	349775 TH			1-4:50 PM								
	A. CHASTAIN		\$408.00	\$42.00	\$60.00	\$510.00							
HOR-225 ARBORICULTURE I, 3 CREDITS													
This course ensures students know the basics of establishing healthy trees in the urban environment. After covering tree anatomy and physiology we discuss sourcing, planting, and maintenance. We introduce electrical hazard awareness and some of the knots used in tree care. Designed to be combined with HOR-260 to prepare students for the International Society of Arboriculture Certified Arborist exam.													
OC HYB	HOR-225-01	349776 T			1-3:50 PM								
	E. ROBERTS		\$408.00	\$42.00	\$25.00	\$475.00							
HOR-226 PLANT IDENTIFICATION/FALL, 4 CREDITS													
Identification of deciduous trees, shrubs, and groundcovers, including their cultural requirements in the landscape. Oregon State University transfer course.													
OC NCT	HOR-226-01	349778 T			8-11:50 AM								
	J. WENTWORTH-PLATO		\$544.00	\$56.00	\$45.00	\$645.00							
OC HYB NCT	HOR-226-02	349780 W			6-8:30 PM								
	J. WENTWORTH-PLATO		\$544.00	\$56.00	\$45.00	\$645.00							
HOR-235 WEED IDENTIFICATION, 2 CREDITS													
Identification and life cycles of weeds commonly found in landscapes, nurseries, and farms.													
OC HYB NCT	HOR-235-01	349782 T			4-5:50 PM								
	A. CHASTAIN		\$272.00	\$28.00	\$20.00	\$320.00							
	Meets: 9/29-10/27.												
HOR-236 INSECT IDENTIFICATION, 2 CREDITS													
Develop skills to identify common pest and insect life stages that damage or benefit plants in the landscape, farm, and greenhouse.													

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Course No	Course Title, Credits					
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Instructor	Tuition	Fee	Crs. Fee	Total		
OC HYB LCT	HOR-236-01 349784 T		4-5:50 PM			
J. WENTWORTH-PLATO	\$272.00	\$28.00	\$40.00	\$340.00		
Meets: 11/3-12/1.						

HOR-240 IRRIGATION PRACTICES, 3 CREDITS

Materials, equipment, and methods used to install and repair irrigation systems in landscape areas.

OC HYB	HOR-240-01 353134 W		1-4:00 PM			
A. CHASTAIN	\$408.00	\$42.00	\$45.00	\$495.00		

HOR-249 LANDSCAPE BIDDING AND ESTIMATING, 1 CREDIT

This class is an introduction to bidding and estimating landscape projects. Students will interpret and measure landscape plans in order to perform take-offs and calculate quantities of materials needed; calculate direct costs using price lists and production rates; calculate and analyze overhead costs, net and gross profit margins, and break-even points; and review computer software options.

Recommended Prerequisite or Corequisite: HOR-123 or HOR-224

OC	HOR-249-01 353135 TH		10-11:50 AM			
A. CHASTAIN	\$136.00	\$14.00	\$15.00	\$165.00		

HOR-252 KITCHEN HERBS, 1 CREDIT

Instruction will focus on how to grow and use common culinary herbs. This includes how to incorporate common herbs on market farms and how to plan for production, drying, and sales of herbs.

OC NCT	HOR-252-01 349786 F		8-11:50 AM			
D. ROSTAD	\$136.00	\$14.00	\$50.00	\$200.00		
Meets: 11/6-12/11.						

HOR-262 TREWORK PRACTICUM I, 2 CREDITS

Experience with the implementation of basic requirements, equipment and techniques employed by arborists who work aloft. Covers personal protective equipment, safe operation, and common cutting techniques in accordance with current industry standards. Students operate chainsaws in a variety of field exercises, and will gain exposure to other pieces of industry equipment, such as chipper, truck and trailer, and aerial lift. Students will participate as members of a crew, gaining introductory experience in tree pruning, rigging, hardware installation, electrical hazard awareness, aerial rescue, ground work, and work site management.

Prerequisites: HOR-115, HOR-131, and HOR-239

OC NCT	HOR-262-01 349787 F		10-12:30 PM			
	F		1-4:30 PM			
J. WENTWORTH-PLATO	\$272.00	\$28.00	\$95.00	\$395.00		
If you have arboriculture industry experience and wish to take this class, contact jimwp@clackamas.edu.						

HOR-264 TREWORK PRACTICUM II (AERIAL), 2 CREDITS

Experience with the implementation of intermediate requirements, using equipment and techniques employed by arborists who work aloft. Reinforces personal protective equipment, safe operation, and common cutting techniques in accordance with current industry standards. Students operate chainsaws in a variety of field exercises, and will gain exposure to other pieces of industry equipment, such as chipper, truck and trailer, and aerial lift. Students will participate as members of a crew, gaining additional experience in tree pruning, rigging, hardware installation, electrical hazard awareness, aerial rescue, ground work, and work site management.

Prerequisites: HOR-262

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	HOR-264-01 349789 F		10-12:30 PM			
	F		1-4:30 PM			
J. WENTWORTH-PLATO	\$272.00	\$28.00	\$95.00	\$395.00		
If you have arboriculture industry experience and wish to take this class, contact jimwp@clackamas.edu.						

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 NCT	HOR-280-01 349791					
G. LOEFFLER	\$408.00	\$42.00	\$45.00	\$495.00		
Required: Student Petition. Contact: gentiana.loeffler@clackamas.edu 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 NCT	HOR-281-01 349797					
G. LOEFFLER	\$816.00	\$84.00	\$45.00	\$945.00		
Required: Student Petition. Contact: gentiana.loeffler@clackamas.edu 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 NCT	HOR-282-01 349798					
G. LOEFFLER	\$408.00	\$42.00	\$45.00	\$495.00		
Required: Student Petition. Contact: gentiana.loeffler@clackamas.edu Corequisite: Take the following CWE-281-06.						

XHOR-C001 APPRENTICE APPLICATOR LICENSE RECERTIFICATION, SPANISH, 0.80 CEUS

Class fulfills the Oregon Department of Agriculture training continuing education requirements for renewing the Apprentice Applicator License certification. Clase cumple con los requisitos de capacitación de Oregon Department of Agriculture para la recertificación de licencia de aprendiz aplicador.

OC ESPAÑOL	XHOR-C001- 350193 F		8-4:50 PM			
	01					
L. CERVANTES						
Requerido: petición del estudiante. Meets: 12/4. Fee: \$80. Eventbrite registration at https://bit.ly/horteventbrite Questions: sarah.reck@clackamas.edu.						

XHOR-C010 JAPANESE-STYLE PRUNING, 0.40 CEUS

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/FA

Course No	Course Title, Credits					
Section No Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total
Learn the art of Japanese Pruning with Masa Mizuno, a highly-respected master of Japanese garden cultivation. He has worked for decades with established Japanese gardens throughout the Pacific Northwest, and has led his own landscape design/install firm for over 30 years. This is a hands-on class, so please bring your own gloves and pruning tools.						
OFF	XHOR-C010-01 M. MIZUNO Required: Student Petition. Meets: 10/3 at off-campus location in Portland, OR. Fee: \$45. Eventbrite registration at https://bit.ly/horteventbrite Questions: sarah.reck@clackamas.edu.	350196 S			9-1:00 PM	
OFF	XHOR-C010-02 M. MIZUNO Required: Student Petition. Meets: 10/9 at off-campus location in Silverton, OR. Fee: \$45. Eventbrite registration at https://bit.ly/horteventbrite Questions: sarah.reck@clackamas.edu.	350197 F			1-5:00 PM	
OFF	XHOR-C010-03 M. MIZUNO Required: Student Petition. Meets: 10/31 at off-campus location in Portland, OR. Fee: \$45. Eventbrite registration at https://bit.ly/horteventbrite Questions: sarah.reck@clackamas.edu.	353239 S			9-1:00 PM	
OFF	XHOR-C010-04 M. MIZUNO Required: Student Petition. Meets: 11/13 at off-campus location in Silverton, OR. Fee: \$45. Eventbrite registration at https://bit.ly/horteventbrite Questions: sarah.reck@clackamas.edu.	353240 F			1-5:00 PM	
XHOR-C032	FOUNDATIONS OF IRRIGATION DESIGN, 1.60 CEUS					
Take your landscape designs to the next level by learning fundamentals of irrigation design. Developed by Irrigation Association instructors with years of teaching experience, this beginner reference focuses on designing a simple residential or small commercial system. Participants complete two designs from start to finish during this fast-paced, two-day class. Organized to follow the typical design process, topics include gathering site information, calculating system capacity, soil-water-plant relationships, pipe sizing, hydraulics, head layout, uniformity, zoning and plan presentation. Qualifies for 16 Irrigation Association CEU's.						
OC	XHOR-C032-01 K. MCCALEB Required: Student Petition. Meets: 11/6-11/7. Fee: \$160. Eventbrite registration at https://bit.ly/horteventbrite Questions: sarah.reck@clackamas.edu.	350198 FS			8-4:50 PM	
XHOR-C06A	PESTICIDE CORE TRAINING-FALL, 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.						

Campus Locations:
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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	Total
OC	XHOR-C06A-01	350202 F			8-11:50 AM	
	S. CROSSWHITE	Required: Student Petition. Meets: 11/13. Fee \$45. Eventbrite registration at https://bit.ly/horteventbrite Questions: sarah.reck@clackamas.edu.				

Human Services

HS-100 INTRODUCTION TO HUMAN SERVICES, 3 CREDITS

This course provides an overview of the human services field. The course includes the history of human services with a focus on the diverse roots of the field. Students will get an overview of the various careers and educational options available in human services, as well as an opportunity to discuss the student's own abilities and goals.

OC HYB LCT	HS-100-01	349668 T			10-11:50 AM	
	C. BAKER		\$408.00	\$42.00	\$0.00	\$450.00
This class meets every other Tuesday (10/6, 10/20, 11/3, 11/17, 12/1) from 10:00AM to 11:50AM.						
ONL LCT	HS-100-02	349670				
	C. BAKER		\$408.00	\$42.00	\$0.00	\$450.00

HS-170 PREPARATION FOR FIELD EXPERIENCE IN HUMAN SERVICES, 1 CREDIT

This course prepares students to complete fieldwork in Human Services. Covers developing learning objectives and creating successful field placements as well as the specific steps required to complete a Cooperative Work Experience at Clackamas Community College. Required: Student Petition.

Prerequisites: HS-100 and HS-154

Prerequisite or Corequisite: HS-156

Recommended Prerequisites: HS-103 and HS-206

ONL	HS-170-01	349671				
	J. LOVELESS		\$136.00	\$14.00	\$0.00	\$150.00

HS-206 TRAUMA INFORMED PRACTICES, 3 CREDITS

In this course, students will learn how to recognize and respond to the impact of traumatic stress. Students will gain knowledge and skills they can infuse into their practices and act in a way that maximizes physical and psychological safety for clients and themselves. Students will understand how trauma impacts the brain, body, as well as development. Topics such as vicarious trauma, cultural trauma, and secondary trauma will be examined and discussed.

Recommended Prerequisites: CJA-101 or HS-100 or any other 100-level course that discusses human behavior, development, or social interactions

ONL	HS-206-01	349673				
	TBA		\$408.00	\$42.00	\$0.00	\$450.00

HS-210 MOTIVATIONAL INTERVIEWING, 3 CREDITS

Students taking this course will learn a client-centered approach to working with a variety of populations that are ambivalent towards change or are even mandated to make a change (court-ordered populations). Motivational Interviewing is recognized as a core component of various interventions service providers use, including those in substance abuse/addiction services, mental health, primary healthcare, education, and criminal justice. These skills include interviewing and listening, identifying ambivalence and change talk, strengthening resolve to change, and internal motivation of populations served.

Recommended Prerequisites: HS-156

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	HS-210-01 349674 W J. SHANNON This class meets every other Wednesday (10/7, 10/21, 11/4, 11/18, 12/2) from 10:00AM to 11:50AM.					\$408.00	\$42.00	10-11:50 AM	\$0.00	\$450.00
OC	IMT-104-01 349816 T C. CONNORS					\$272.00	\$28.00	6:30 -8:20 PM	\$102.50	\$402.50

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 349678 W C. BAKER This class meets every other Wednesday (9/30, 10/14, 10/28, 11/25, 12/9) from 10:00AM to 11:50AM.					\$272.00	\$28.00	10-11:50 AM	\$0.00	\$300.00
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HS-280 HUMAN SERVICES GENERALIST I: CWE/PRACTICUM, 2-6 CREDITS

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 HYB LCT	HS-280-01 349680 J. LOVELESS Required: Student Petition.					\$816.00	\$84.00		\$45.00	\$945.00V
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HS-281 HUMAN SERVICES GENERALIST II: CWE/PRACTICUM, 2-6 CREDITS

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 HYB LCT	HS-281-01 349683 J. LOVELESS Required: Student Petition.					\$816.00	\$84.00		\$45.00	\$945.00V
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HS-282 HUMAN SERVICES GENERALIST III: CWE/PRACTICUM, 2-6 CREDITS

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 HYB LCT	HS-282-01 349687 J. LOVELESS Required: Student Petition.					\$816.00	\$84.00		\$45.00	\$945.00V
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Industrial Maintenance Technology**IMT-104 READING SCHEMATICS, SYMBOLS, AND ENGINEERING PRINTS, 2 CREDITS**

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
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VAR: Variable credit class

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

A basic course of study that will develop the student's understanding of reading schematics, symbols, and engineering prints through lectures and hands-on examples.

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 NCT	IMT-111-01 349820 MW M. BABCOCK S. PAVEY					\$408.00	\$42.00	9-11:50 AM	\$153.75	\$603.75
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Journalism**J-211 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.

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

OC	J-211-01 349829 MW M. JONES					\$544.00	\$56.00	10-11:50 AM	\$10.00	\$610.00
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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 349831 MW M. JONES					\$544.00	\$56.00	1-2:50 PM	\$10.00	\$610.00
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J-220 PODCASTING AND VIDEO JOURNALISM, 4 CREDITS

Students will learn to produce and publish audio and video news stories for a variety of media, including podcasting platforms, YouTube and social media.

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

REM NCT	J-220-01 349832 T J. SONNENMAIR Additional hours online.					\$544.00	\$56.00	6-7:00 PM	\$10.00	\$610.00
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J-221 INTERMEDIATE PODCASTING AND VIDEO JOURNALISM, 4 CREDITS

Students will learn intermediate skills to produce and publish audio and video news stories for a variety of media, including podcasting platforms, YouTube and social media.

Prerequisites: J-220 with a C or better

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

Course Listing

2026/FA

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
REM NCT	J-221-01	349833	T			10-11:50 AM		OC	J-235-01	349846	MW			1-2:50 PM	
	J. SONNENMAIR	\$544.00	\$56.00	\$10.00	\$610.00				M. JONES	\$544.00	\$56.00	\$0.00	\$600.00		
Additional hours online.															
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	349835	MW			1-2:50 PM									
	M. JONES	\$544.00	\$56.00	\$0.00	\$600.00										
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	J-226-01	349837	T			1-4:50 PM									
	M. JONES	\$544.00	\$56.00	\$10.00	\$610.00										
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	J-227-01	349839	T			1-4:50 PM									
	M. JONES	\$544.00	\$56.00	\$0.00	\$600.00										
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	J-228-01	349843	T			1-4:50 PM									
	M. JONES	\$544.00	\$56.00	\$0.00	\$600.00										
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															

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					
Recommended Prerequisites: J-215					
ONL NCT	J-280-01	349847			
	M. JONES	\$816.00	\$84.00	\$45.00	\$945.00V
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 NCT	J-280A-01	349851			
	M. JONES	\$816.00	\$84.00	\$45.00	\$945.00V
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.					
ONL NCT	LIB-101-01	349855			
	TBA	\$0.00	\$0.00	\$0.00	\$0.00
Meets: 9/28-11/28.					
ONL NCT	LIB-101-02	349857			
	TBA	\$0.00	\$0.00	\$0.00	\$0.00
Meets: 9/28-11/28.					

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	349895	MW		8-11:50 AM
	J. CARLSTON	\$544.00	\$56.00	\$205.00	\$805.00
	J. TRAVER				
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	353074	MW		5-8:50 PM
	J. TRAVER	\$544.00	\$56.00	\$205.00	\$805.00
MTT-121	CNC I: SET-UP AND OPERATION, 4 CREDITS				

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.

ONL NCT	LIB-101-01	349855				
	TBA	\$0.00	\$0.00	\$0.00	\$0.00	
	Meets: 9/28-11/28.					
ONL NCT	LIB-101-02	349857				
	TBA	\$0.00	\$0.00	\$0.00	\$0.00	
	Meets: 9/28-11/28.					

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	349895 MW		8-11:50 AM	
	J. CARLSTON	\$544.00	\$56.00	\$205.00	\$805.00
	J. TRAVER				

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	353074 MW		5-8:50 PM	
	J. TRAVER	\$544.00	\$56.00	\$205.00	\$805.00

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

Campus Locations:

HAR: Harmony Community Campus
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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
oc	MTT-121-01 349898 TTH J. CARLSTON		\$544.00	\$56.00	8-11:50 AM \$205.00	\$805.00
oc	MTT-121-02 354413 TTH J. CARLSTON		\$544.00	\$56.00	5:30 -9:20 PM \$205.00	\$805.00

MTT-141 CAD/CAM I, 4 CREDITS

This course is the first in the CAM series and will introduce students to computer-aided part creation and programming. Students will use CAD/CAM software to generate Numerical Control (NC) code to produce machined products. Model creation, process verification, code generation, and CAD/CAM integration will be covered.

Recommended Prerequisites: MTT-121

oc	MTT-141-01 353411 MW C. LETTENMAIER		\$544.00	\$56.00	5:30 -8:50 PM \$205.00	\$805.00
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MTT-241 CAD/CAM II, 4 CREDITS

This course is the second in the Computer-Aided Machining (CAM) series and will greatly expand the student's existing CAD/CAM skills by exploring more advanced software features and programming techniques. There will be a strong emphasis placed on the entire CAD/CAM/CNC part machining process. An introduction to 4-axis mill programming will be included.

Prerequisites: MTT-122 and MTT-141

oc NCT	MTT-241-01 349903 MW C. LETTENMAIER		\$544.00	\$56.00	8-11:50 AM \$205.00	\$805.00
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MTT-252 MACRO PROGRAMMING AND MACHINE PROBING, 3 CREDITS

This course is an introduction to Fanuc-based, custom macro programming for individuals with some previous G&M-code programming experience. Students will learn to define and apply macro variables, program branching, macro functions and operators and implement repetitive looping. Additional topics will include custom alarms and assignment of G & M codes to macros. Students will write and prove out programs on HAAS CNC controls utilizing all basic functions of the language using Renishaw touch probes.

Recommended Prerequisites: MTT-122 or competence with basic G&M-code mill programming (FANUC/Haas-style)

oc NCT	MTT-252-01 349905 MW C. LETTENMAIER		\$408.00	\$42.00	1-3:50 PM \$153.75	\$603.75
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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

Campus Locations:
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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 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 NCT	MFG-103-01 349860 TTH J. CARLSTON		\$408.00	\$42.00	12:30 -3:20 PM \$153.75	\$603.75
oc NCT	MFG-103-02 349861 MW J. CARLSTON		\$408.00	\$42.00	12:30 -3:20 PM \$153.75	\$603.75

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	MFG-104-01 349864 TTH M. BABCOCK		\$408.00	\$42.00	3:30 -4:50 PM \$153.75	\$603.75
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MFG-106 ADVANCED APPLIED GEOMETRIC DIMENSIONING AND TOLERANCING FOR MANUFACTURING, 3 CREDITS

Introduces participants to the application of gauging and inspection using Geometric Dimensioning and Tolerancing (GDT). Students will identify inspection equipment and inspect GDT characteristics while experiencing their manufacturing implications.

Prerequisites: MFG-104

oc	MFG-106-01 349868 M M. BABCOCK		\$408.00	\$42.00	4:30 -7:20 PM \$153.75	\$603.75
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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 NCT	MFG-107-01 349870 F L. HILLYARD		\$408.00	\$42.00	1-3:50 PM \$153.75	\$603.75
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MFG-109 COMPUTER LITERACY FOR TECHNICIANS, 3 CREDITS

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 349873 F A. ARISTIZABAL		\$408.00	\$42.00	8-10:50 AM \$300.79	\$750.79
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Online textbook included in section fees.

MFG-110 MANUFACTURING SPECIAL PROJECTS, 1 CREDIT

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 NCT	MFG-110-01 349876 TBA C. LETTENMAIER		\$136.00	\$14.00	\$51.25	\$201.25
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Required: Student Petition.

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

MFG-130 BASIC ELECTRICITY I, 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.

oc	MFG-130-01	349880 F		5-7:50 PM		
	B. KARM	\$408.00	\$42.00	\$153.75	\$603.75	
oc	MFG-130-02	349882 F		2-4:50 PM		
	B. KARM	\$408.00	\$42.00	\$153.75	\$603.75	

MFG-218 LEAN MANUFACTURING AND QUALITY SYSTEMS, 3 CREDITS

This survey course provides students with literacy in the elements of quality systems including Lean Manufacturing/Six Sigma and related statistical methods. Participants will learn about the philosophy and tools that make up a lean manufacturing system. Students will become familiar with the concepts and tools of quality management which include kaizen, visual management, 5S, value stream mapping, A3 problem solving, SPC, Six Sigma, and the Toyota Production System.

oc	MFG-218-01	349883 TH		5-7:50 PM		
	C. CONNORS	\$408.00	\$42.00	\$153.75	\$603.75	

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	MFG-221-01	349885 TTH		9-11:50 AM		
	M. BABCOCK	\$408.00	\$42.00	\$153.75	\$603.75	

MFG-271 MASTERCAM MILL I, 4 CREDITS

Covers the creation and manipulation of two and three dimensional wire frame models as well as the creating, editing, and verification of 2-1/2 axis toolpaths. A fundamental understanding of the CAD/CAM process will be gained.

REM NCT	MFG-271-01	349886 TTH		6-9:50 PM		
	C. LETTENMAIER	\$544.00	\$56.00	\$205.00	\$805.00	

MFG-280 MANUFACTURING TECHNOLOGY/CWE, 1-6 CREDITS

Cooperative work experience. Practical experience in the manufacturing trades. Coordination of instruction and evaluation of student job performance will be provided by college faculty in conjunction with the student's employer/supervisor. May be repeated for up to 6 credits. Required: Student Petition.

Corequisites: CWE-281

ONL NCT	MFG-280-01	349888				
	C. CONNORS	\$816.00	\$84.00	\$75.00	\$975.00	
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					
ONL	MFG-280-02	349889				
	M. MATTSON	\$272.00	\$28.00	\$75.00	\$375.00	
	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	350203 F		5-8:50 PM		
	C. CONNORS	\$0.00	\$0.00	\$0.00	\$0.00	
	Meets: 10/2.					
oc	XMFG-0008-02	350204 F		5-8:50 PM		
	C. CONNORS	\$0.00	\$0.00	\$0.00	\$0.00	
	Meets: 10/9.					
oc	XMFG-0008-03	350205 F		5-8:50 PM		
	C. CONNORS	\$0.00	\$0.00	\$0.00	\$0.00	
	Meets: 10/16.					
oc	XMFG-0008-04	350206 F		5-8:50 PM		
	C. CONNORS	\$0.00	\$0.00	\$0.00	\$0.00	
	Meets: 10/23.					
oc	XMFG-0008-05	350207 F		5-8:50 PM		
	C. CONNORS	\$0.00	\$0.00	\$0.00	\$0.00	
	Meets: 10/30.					
oc	XMFG-0008-06	350208 F		5-8:50 PM		
	C. CONNORS	\$0.00	\$0.00	\$0.00	\$0.00	
	Meets: 11/6.					
oc	XMFG-0008-07	350209 F		5-8:50 PM		
	C. CONNORS	\$0.00	\$0.00	\$0.00	\$0.00	
	Meets: 11/13.					
oc	XMFG-0008-08	350210 F		5-8:50 PM		
	C. CONNORS	\$0.00	\$0.00	\$0.00	\$0.00	
	Meets: 11/20.					
oc	XMFG-0008-09	350211 F		5-8:50 PM		
	C. CONNORS	\$0.00	\$0.00	\$0.00	\$0.00	
	Meets: 12/4.					
oc	XMFG-0008-10	350212 F		5-8:50 PM		
	C. CONNORS	\$0.00	\$0.00	\$0.00	\$0.00	
	Meets: 12/11.					

Mathematics**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	349731				
	M. NICKAS	\$544.00	\$56.00	\$20.00	\$620.00	
	Meets: 10/12-12/12.					

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.

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
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Distance Education Notification:
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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/FA

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

ONL LCT ESPAÑOL	MTH-020ES-01	353409				
	A. ARISTIZABAL		\$544.00	\$56.00	\$20.00	\$620.00
	Requerido: petición del estudiante.					

MTH-050 TECHNICAL MATHEMATICS I, 4 CREDITS

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	349738 TTH			10-11:50 AM	
	A. ARISTIZABAL		\$544.00	\$56.00	\$27.00	\$627.00
OC LCT	MTH-050-02	349740 MW			3-4:50 PM	
	A. ARISTIZABAL		\$544.00	\$56.00	\$27.00	\$627.00
OC LCT	MTH-050-03	349744 TTH			1-2:50 PM	
	M. PRICE		\$544.00	\$56.00	\$27.00	\$627.00

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	349748 F			5-8:50 PM	
	A. ARISTIZABAL		\$544.00	\$56.00	\$27.00	\$627.00

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	349752 MW			9-10:50 AM	
	B. WEBBER		\$544.00	\$56.00	\$27.00	\$627.00
HAR NCT	MTH-060-02	349759 TTH			6-7:50 PM	
	K. PHILLIPS		\$544.00	\$56.00	\$27.00	\$627.00
OC NCT	MTH-060-03	349763 TTH			1-2:50 PM	
	A. ARISTIZABAL		\$544.00	\$56.00	\$27.00	\$627.00
OC NCT	MTH-060-04	349768 TTH			10-11:50 AM	
	M. HUNTER		\$544.00	\$56.00	\$27.00	\$627.00

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	349771 MW			9-10:50 AM	
	B. WEBBER		\$544.00	\$56.00	\$27.00	\$627.00
HAR NCT	MTH-065-02	349779 TTH			6-7:50 PM	
	K. PHILLIPS		\$544.00	\$56.00	\$27.00	\$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

OC NCT	MTH-065-03	349783 MW			1-2:50 PM	
	A. HALL		\$544.00	\$56.00	\$27.00	\$627.00
OC NCT	MTH-065-04	349788 MW			3-4:50 PM	
	M. CHASE		\$544.00	\$56.00	\$27.00	\$627.00
OC NCT	MTH-065-05	349792 TTH			10-11:50 AM	
	M. HAUGEN		\$544.00	\$56.00	\$27.00	\$627.00
OC NCT	MTH-065-06	349794 TTH			1-2:50 PM	
	A. HALL		\$544.00	\$56.00	\$27.00	\$627.00

MTH-082A WASTEWATER MATH I, 1 CREDIT

Quantitative component to understanding wastewater operations. Simple unit and flow rate conversions, fraction to decimal conversions and more complicated problem solving as applied to wastewater preliminary & primary treatment.

Corequisites: WET-110

OC	MTH-082A-01	349890 M			5-5:50 PM	
	M. LAFORCE		\$136.00	\$14.00	\$10.00	\$160.00

MTH-082B WATERWORKS MATH I, 1 CREDIT

Problem solving for waterworks applications. Introduction to basic algebra and mathematical concepts, conversions, and calculations encountered in the waterworks industry.

Corequisites: WET-111

OC	MTH-082B-01	349893 T			5-5:50 PM	
	J. NURMI		\$136.00	\$14.00	\$10.00	\$160.00

MTH-082E MATH FOR HIGH PURITY WATER, 1 CREDIT

Basic math for high purity water concepts. Measurement accuracy, rounding rules & errors, significant figures, scientific notation, metric prefixes, simple statistics, average & standard deviation of a population.

Corequisites: WET-125

REM	MTH-082E-01	349894 W			2-2:50 PM	
	G. CARR		\$136.00	\$14.00	\$10.00	\$160.00

MTH-095 ALGEBRA III, 4 CREDITS

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.

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

HAR NCT	MTH-095-01	349796 MW			6-7:50 PM	
	C. WARNER		\$544.00	\$56.00	\$27.00	\$627.00
OC NCT	MTH-095-02	349800 MW			10-11:50 AM	
	K. AMREIN		\$544.00	\$56.00	\$27.00	\$627.00
OC NCT	MTH-095-03	349802 MW			1-2:50 PM	
	S. PRUYN		\$544.00	\$56.00	\$27.00	\$627.00
OC NCT	MTH-095-04	349803 TTH			9-11:50 AM	
	J. HEVEL		\$544.00	\$56.00	\$27.00	\$627.00
	Meets: 10/12-12/12.					
OC NCT	MTH-095-05	349805 MW			1-3:50 PM	
	M. HUNTER		\$544.00	\$56.00	\$27.00	\$627.00
	Meets: 10/12-12/12.					
OC NCT	MTH-095-06	349806 TTH			3-4:50 PM	
	M. HUNTER		\$544.00	\$56.00	\$27.00	\$627.00
OC LCT	MTH-095-07	349808 TTH			1-2:50 PM	
	M. HUNTER		\$544.00	\$56.00	\$27.00	\$627.00

MTH-098 COLLEGE MATH FOUNDATIONS, 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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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
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-020 with a C or better, or placement in MTH-050, MTH-060, or MTH-098						
OC HYB NCT	MTH-098-01	349811 TTH			1-2:20 PM	
	K. PHILLIPS		\$544.00	\$56.00	\$27.00	\$627.00
OC HYB NCT	MTH-098-02	349817 TTH			10-11:20 AM	
	M. PRICE		\$544.00	\$56.00	\$27.00	\$627.00
OC HYB NCT	MTH-098-03	349821 MW			1-2:20 PM	
	B. WEBBER		\$544.00	\$56.00	\$27.00	\$627.00
ONL NCT	MTH-098-10	349824				
	E. KELLY		\$544.00	\$56.00	\$27.00	\$627.00
ONL NCT	MTH-098-11	349827				
	M. JOSI		\$544.00	\$56.00	\$27.00	\$627.00
ONL NCT	MTH-098-12	349828				
	M. JOSI		\$544.00	\$56.00	\$27.00	\$627.00

MTH-105Z MATH IN SOCIETY, 4 CREDITS

An exploration of present-day applications of mathematics focused on developing numeracy. Major topics include quantitative reasoning and problem-solving strategies, probability and statistics, and financial mathematics; these topics are to be weighted approximately equally. This course emphasizes mathematical literacy and communication, relevant everyday applications, and the appropriate use of current technology.

Prerequisites: MTH-095 or MTH-098 with a C or better, or placement in MTH-111Z

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

OC HYB NCT	MTH-105Z-01	349830 TTH			10-11:20 AM	
	S. VALDES		\$544.00	\$56.00	\$27.00	\$627.00
OC HYB NCT	MTH-105Z-02	349834 MW			10-11:20 AM	
	M. CHASE		\$544.00	\$56.00	\$27.00	\$627.00
OC HYB NCT	MTH-105Z-03	349836 TTH			1-2:20 PM	
	M. YANNOTTA		\$544.00	\$56.00	\$27.00	\$627.00
OC HYB NCT	MTH-105Z-04	349838 MW			1-2:20 PM	
	M. CHASE		\$544.00	\$56.00	\$27.00	\$627.00
ONL NCT	MTH-105Z-10	349840				
	S. VALDES		\$544.00	\$56.00	\$27.00	\$627.00
ONL NCT	MTH-105Z-11	349842				
	M. YANNOTTA		\$544.00	\$56.00	\$27.00	\$627.00
ONL NCT	MTH-105Z-12	349844				
	M. YANNOTTA		\$544.00	\$56.00	\$27.00	\$627.00

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.

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: 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	349845 MW			9-11:50 AM	
	M. PARTNOF		\$544.00	\$56.00	\$27.00	\$627.00
OC NCT	MTH-111Z-02	349848 MW			9-11:50 AM	
	S. PRUYN		\$544.00	\$56.00	\$27.00	\$627.00
OC NCT	MTH-111Z-03	349849 TTH			1-3:50 PM	
	E. KELLY		\$544.00	\$56.00	\$27.00	\$627.00
OC NCT	MTH-111Z-04	349850 MW			1-3:50 PM	
	K. AMREIN		\$544.00	\$56.00	\$27.00	\$627.00
OC NCT	MTH-111Z-05	349852 TTH			9-11:50 AM	
	F. CARTER		\$544.00	\$56.00	\$27.00	\$627.00
OC HYB NCT	MTH-111Z-10	349853 TBA				
	B. HSIAO		\$544.00	\$56.00	\$27.00	\$627.00
This is an online section that meets for orientation and in-person testing dates only. Orientation: 9/30 6-7pm, Exam 1: 10/14 6-8pm, Exam 2: 11/11 6-8pm, Final Exam: 12/9 6-8pm.						

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	349856 TTH			10-11:50 AM	
	E. KELLY		\$544.00	\$56.00	\$27.00	\$627.00
OC NCT	MTH-112Z-02	349862 TTH			1-2:50 PM	
	E. MEUSER		\$544.00	\$56.00	\$27.00	\$627.00
OC NCT	MTH-112Z-03	349863 MW			3-4:50 PM	
	B. WEBBER		\$544.00	\$56.00	\$27.00	\$627.00

MTH-211 FUNDAMENTALS OF ELEMENTARY MATH I, 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 math anxiety and mindset, problem-solving, numeration systems, arithmetic, and number theory.

Prerequisites: MTH-095 with a C or better, or MTH-105Z with C or better, or placement in MTH-111Z

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

OC NCT	MTH-211-01	349867 TTH			1-2:50 PM	
	S. VALDES		\$544.00	\$56.00	\$27.00	\$627.00

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	349869 MW			10-11:50 AM	
	B. HSIAO		\$544.00	\$56.00	\$27.00	\$627.00
OC NCT	MTH-251Z-02	349874 TTH			1-2:50 PM	
	B. HSIAO		\$544.00	\$56.00	\$27.00	\$627.00

Campus Locations:

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WILS: Wilsonville Training Center
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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 NCT	MTH-251Z-03 349875 MW M. PRICE					\$544.00	\$56.00	3-4:50 PM	\$27.00	\$627.00
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 349877 TTH M. PARTNOF					\$544.00	\$56.00	10-11:50 AM	\$27.00	\$627.00
OC NCT	MTH-252Z-02 349879 MW M. PARTNOF					\$544.00	\$56.00	3-4:50 PM	\$27.00	\$627.00
MTH-254 VECTOR CALCULUS, 5 CREDITS										
This course is an introduction to the study of vectors and analytic geometry in three-space, the calculus of vector-valued functions, and the calculus of several variables.										
Prerequisites: MTH-252Z with a C or better										
OC HYB NCT	MTH-254-01 349881 MW A. HALL					\$680.00	\$70.00	10-11:50 AM	\$27.00	\$777.00
MTH-261 LINEAR ALGEBRA, 4 CREDITS										
This course is an introduction to linear analysis of n-space: systems of linear equations, vectors, matrices, matrix operations, linear transformations, linear independence, span, bases, subspaces, determinants, eigenvalues, eigenvectors, inner products, diagonalization, and applications of these topics.										
Prerequisites: MTH-252Z with a C or better										
Recommended Prerequisites: WRD-098 or placement in WR-121Z										
OC NCT	MTH-261-01 353127 TTH M. HAUGEN					\$544.00	\$56.00	1-2:50 PM	\$27.00	\$627.00
Medical Assistant										
For more information, contact Health Sciences at healthsciences@clackamas.edu										
MA-150 MEDICAL OFFICE PRACTICES, 4 CREDITS										
Focuses on administrative skills performed by the Medical Assistant in the ambulatory care setting. The course examines medical law and ethics, bioethics, communication, principles of confidentiality, critical thinking, diversity, and medical office function.										
Prerequisites: BI-120, or BI-231Z & BI-232Z & BI-233Z										
Prerequisites: HP-110. MTH-050 or placement in MTH-060 or higher. WRD-098 or placement in WR-121Z										
Corequisites: MA-152, MA-152L, MA-154, and MA-158										
Required: Student must be enrolled in current Medical Assistant cohort										
HAR HYB	MA-150-01 348853 TH S. DAVENPORT					\$544.00	\$56.00	1-3:00 PM	\$152.00	\$752.00
MA-152 EXAMINATION ROOM TECHNIQUES I, 3 CREDITS										
This course is designed to introduce students to the fundamental skills required for medical assisting in an exam room setting. The course will focus on the basic skills needed for patient interactions, documentation, and vital signs.										

Prerequisites: BI-120, or BI-231Z & BI-232Z & BI-233Z
Prerequisites: HP-110. MTH-050 or placement in MTH-060 or higher. WRD-098 or placement in WR-121Z
Corequisites: MA-150, MA-152L, MA-154, and MA-158
Required: Student must be enrolled in current Medical Assistant cohort

ONL	MA-152-01 348854 S. PARKER					\$408.00	\$42.00	\$25.00	\$475.00
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MA-152L EXAMINATION ROOM TECHNIQUES 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 will cover hands-on skills required for medical assisting in an exam room setting. The lab will focus on the basic skills needed for patient interactions, documentation, and vital signs.

Prerequisites: BI-120, or BI-231Z & BI-232Z & BI-233Z
Prerequisites: HP-110. MTH-050 or placement in MTH-060 or higher. WRD-098 or placement in WR-121Z
Corequisites: MA-150, MA-152, MA-154, and MA-158
Required: Student must be enrolled in current Medical Assistant cohort

HAR	MA-152L-01 348855 T B. KEEN S. PARKER					\$136.00	\$14.00	\$100.00	\$250.00
HAR	MA-152L-02 348856 TH B. KEEN S. PARKER					\$136.00	\$14.00	\$100.00	\$250.00

MA-154 BODY SYSTEMS AND PHARMACOLOGY, 4 CREDITS
Introduces the medical assistant student to the foundational concepts and principles of pharmacology; including the classifications of common medications including indications for use, desired effect, side effect, adverse effects, and patient education. Related pathophysiology and body systems will be discussed and reviewed.

Prerequisites: BI-120, or BI-231Z & BI-232Z & BI-233Z
Prerequisites: HP-110. MTH-050 or placement in MTH-060 or higher. WRD-098 or placement in WR-121Z
Corequisites: MA-150, MA-152, MA-152L, and MA-158
Required: Student must be enrolled in current Medical Assistant cohort

HAR HYB	MA-154-01 348857 T S. DAVENPORT					\$544.00	\$56.00	\$40.00	\$640.00
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MA-158 SEMINAR I, 2 CREDITS
This course introduces professionalism in the healthcare setting and explores clinical placement opportunities. Students will demonstrate compliance with Oregon Health Authorities rules for students in clinical training and obtain volunteer experience with a community partner.

Prerequisites: BI-120, or BI-231Z & BI-232Z & BI-233Z
Prerequisites: HP-110. MTH-050 or placement in MTH-060 or higher. WRD-098 or placement in WR-121Z
Corequisites: MA-150, MA-152, MA-152L, and MA-154
Required: Student must be enrolled in current Medical Assistant cohort

HAR	MA-158-01 348858 W S. PARKER					\$272.00	\$28.00	\$0.00	\$300.00
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Music

MUP-102 WIND ENSEMBLE, 1 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	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time			
Instructor	Tuition	Fee	Crs. Fee	Total		
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	348894 MW		3-4:30 PM		
	L. CAMPBELL	\$136.00	\$14.00	\$0.00	\$150.00	

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	348895 T		5-6:00 PM		
	C. DOGGETT	\$136.00	\$14.00	\$0.00	\$150.00	
Required: 1 additional hour per week TBA.						

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	348896 TTH		3-4:30 PM		
	L. CAMPBELL	\$136.00	\$14.00	\$0.00	\$150.00	

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

OC LCT	MUP-122-01	348897 TTH		3-4:50 PM		
	K. HOLLINGSWORTH	\$272.00	\$28.00	\$52.00	\$352.00	
Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/28 or 9/29 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.						

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. May be repeated for up to 6 credits.

OC LCT	MUP-125-01	348898 MW		3-4:50 PM		
	K. HOLLINGSWORTH	\$272.00	\$28.00	\$52.00	\$352.00	
Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/28 or 9/29 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.						

MUP-141 COLLEGE ORCHESTRA, 1 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	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time			
Instructor	Tuition	Fee	Crs. Fee	Total		
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	348899 TBA				
	L. CAMPBELL	\$136.00	\$14.00	\$0.00	\$150.00	
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	348900 MW		1-2:50 PM		
	K. HOLLINGSWORTH	\$272.00	\$28.00	\$50.00	\$350.00	
Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/28 or 9/29 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.						

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	348901 TH		1-2:50 PM		
	D. TUTMARK	\$136.00	\$14.00	\$85.00	\$235.00	
Guitar Ensemble.						
OC NCT	MUP-158-02	348902 TBA				
	G. HARRIS	\$136.00	\$14.00	\$85.00	\$235.00	
Saxophone Quartet.						
OC NCT	MUP-158-03	348903 TBA				
	TBA	\$136.00	\$14.00	\$85.00	\$235.00	
Brass Quintet.						
OC NCT	MUP-158-04	348904 TBA				
	TBA	\$136.00	\$14.00	\$85.00	\$235.00	
Woodwind Quintet.						

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	348983 MW		3-4:30 PM		
	L. CAMPBELL	\$136.00	\$14.00	\$0.00	\$150.00	

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

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	MUP-204-01 348984 T C. DOGGETT Required: 1 additional hour per week TBA.	\$136.00	\$14.00	\$0.00	\$150.00	

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 348988 TTH L. CAMPBELL	\$136.00	\$14.00	\$0.00	\$150.00
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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 348990 TTH K. HOLLINGSWORTH	\$272.00	\$28.00	\$52.00	\$352.00
Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/28 or 9/29 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					

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)

OC LCT	MUP-225-01 348992 MW K. HOLLINGSWORTH	\$272.00	\$28.00	\$52.00	\$352.00
Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/28 or 9/29 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					

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 348994 TBA L. CAMPBELL	\$136.00	\$14.00	\$0.00	\$150.00
Required: Student Petition.					

MUS-102 APPLIED MUSIC FUNDAMENTALS, 3 CREDITS

The first of a 3 course introduction to the fundamentals of music theory. Designed for MPT/MT or AS Transfer students who need substantial preparation for MUS-111 and non-majors.

OC	MUS-102-01 349043 T TH	\$408.00	\$42.00	\$10.00	\$460.00
K. HOLLINGSWORTH					

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

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 349044 J. HEDBERG	\$408.00	\$42.00	\$0.00	\$450.00
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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 NCT	MUS-106-01 349046 F S B. ROSE	\$136.00	\$14.00	\$99.00	\$249.00
Meets: 10/23 & 10/24.					

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 NCT	MUS-107-01 349048 M D. BADSTUBNER	\$408.00	\$42.00	\$99.00	\$549.00
Class meets in Recording Studio (N123).					
OC NCT	MUS-107-02 349051 M D. BADSTUBNER	\$408.00	\$42.00	\$99.00	\$549.00
Class meets in Recording Studio (N123).					

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 LCT	MUS-108-01 349052 T D. BADSTUBNER	\$408.00	\$42.00	\$99.00	\$549.00
Class meets in Recording Studio (N123).					

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 NCT	MUS-109-01 349054 T D. BADSTUBNER	\$408.00	\$42.00	\$99.00	\$549.00
Class meets in Recording Studio (N123).					

MUS-111 MUSIC THEORY I, 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
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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	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	
For non-majors and music majors. Presents an introduction to the diatonic and chromatic structure of tonal music from the common practice period through written exercises, listening, and analysis. This is the first term of a three-term sequence, which includes concepts of pitch and rhythm, intervals, keys, scales, triads, dominant seventh chord, and standard cadences. Provides a thorough groundwork in the melodic, harmonic, and rhythmic elements of music.															
Corequisites: MUS-111L, MUS-114, and MUS-127 for AS in music degree seekers. This requirement does not affect non-music majors or MPT Majors															
Recommended Prerequisites: MTH-095 or placement in MTH-111Z; WRD-098 or placement in WR-121Z															
OC LCT	MUS-111-01	349055	TTH	10-11:20 AM											
	R. OLASON		\$408.00	\$42.00	\$0.00	\$450.00									
MUS-111L MUSIC NOTATION SOFTWARE I, 1 CREDIT															
Introduces students to Finale (music notation software) on Macintosh computers.															
OC NCT	MUS-111L-01	349057	M	10-11:50 AM											
	D. FLECHNER		\$136.00	\$14.00	\$44.00	\$194.00									
MUS-114 AURAL SKILLS I, 2 CREDITS															
First course in a year-long sequence. Diatonic sight singing in major keys using solfège syllables and moveable 'do'. Melodic dictation and aural recognition of intervals and triads.															
Corequisites: MUS-111															
OC LCT	MUS-114-01	349058	TTH	1-1:50 PM											
	R. OLASON		\$272.00	\$28.00	\$0.00	\$300.00									
MUS-127 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-111, MUS-111L, MUS-114															
Recommended: Some experience in reading treble and bass clef, or MUS-131, MUS-132, or MUS-133 with a C or better															
OC LCT	MUS-127-01	349059	TTH	2-2:50 PM											
	R. OLASON		\$272.00	\$28.00	\$10.00	\$310.00									
MUS-131 THE ART OF PIANO PLAYING, 1 CREDIT															
First 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-131-01	349061	TTH	9-9:50 AM											
	T. STOJANOVIC		\$136.00	\$14.00	\$85.00	\$235.00									
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	349063	TH	10-11:50 AM											
	D. TUTMARK		\$136.00	\$14.00	\$85.00	\$235.00									
MUS-141 INTRODUCTION TO THE MUSIC BUSINESS, 3 CREDITS															
Explores business basics, songwriting, demos, agents, managers, copyrights, gig and concert promotion, publishing, licensing, and music business structures.															
ONL NCT	MUS-141-01	349064													
	D. FLECHNER		\$408.00	\$42.00	\$0.00	\$450.00									
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 NCT	MUS-142-01	349065	T	1-3:50 PM											
	A. HAAK		\$408.00	\$42.00	\$99.00	\$549.00									
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 NCT	MUS-147-01	348820	F	6:30 -8:50 PM											
	B. ROSE		\$136.00	\$14.00	\$99.00	\$249.00									
	Meets: 10/16 & 10/17.														
MUS-148 LIVE SOUND ENGINEERING, 3 CREDITS															
Introduction to the basic techniques and tools used in live sound engineering and mixing. Areas of study include set up, signal path, microphone applications, hardware, and outboard gear.															
OC NCT	MUS-148-01	349068	W	6:30 -9:20 PM											
	D. BADSTUBNER		\$408.00	\$42.00	\$99.00	\$549.00									
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 NCT	MUS-188-01	349069	T	12-1:00 PM											
	K. HOLLINGSWORTH		\$0.00	\$0.00	\$0.00	\$0.00									
	Required: Music major meeting 10/1 room N119 12-1pm.														
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 NCT	MUS-189-01	349070	W	12-12:50 PM											
	J. ISRAELS		\$136.00	\$14.00	\$0.00	\$150.00									
	B. MICHAEL														
MUS-206 MUSIC LITERATURE: HISTORY OF ROCK, 4 CREDITS															
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 NCT	MUS-206-01	349074	MW	10-11:50 AM											
	K. DEITZ		\$544.00	\$56.00	\$0.00	\$600.00									
	Required: Attendance at three concert field trips TBA.														
ONL NCT	MUS-206-02	349077													
	J. HEDBERG		\$544.00	\$56.00	\$0.00	\$600.00									
MUS-207 ADVANCED AUDIO RECORDING & MIXING I: RECORDING TECHNIQUES, 3 CREDITS															

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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

This course will address advanced recording techniques and topics with a focus on working with live talent in the recording studio. Topics covered include vocal production, drum recording, instrument production, ensemble dynamics, multi microphone and stereo microphone techniques, utilizing outboard processors, increased fluency in Pro Tools etc. Students will also be participating in client outreach, securing talent for the class recording sessions.

Prerequisites: MUS-109

OC NCT	MUS-207-01	349078 TH			6:30 -9:20 PM	
	D. BADSTUBNER	\$408.00	\$42.00	\$0.00		\$450.00
	Class meets in Recording Studio (N123).					

MUS-211 MUSIC THEORY II, 3 CREDITS

For non-majors and music majors. Continuation of the study of functional harmony through written exercises, compositions, listening, and analysis and introduction to polyphony. This is the first term of a three-term sequence, which includes late Renaissance polyphony, baroque counterpoint, and chromatic harmony.

Prerequisites: MUS-113

Corequisites: MUS-214 and MUS-224

OC LCT	MUS-211-01	349079 MW			10-11:20 AM	
	R. OLASON	\$408.00	\$42.00	\$269.00		\$719.00

MUS-214 KEYBOARD SKILLS II, 2 CREDITS

Advanced keyboard applications of the materials of diatonic and chromatic music.

Prerequisites: MUS-129

Corequisites: MUS-211

OC LCT	MUS-214-01	349080 MW			2-2:50 PM	
	R. OLASON	\$272.00	\$28.00	\$85.00		\$385.00

MUS-218 MPT SEMINAR I, 1 CREDIT

First of 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-104, MUS-109, MUS-113L, and MUP-150

OC NCT	MUS-218-01	349082 M			12-12:50 PM	
	K. HOLLINGSWORTH	\$136.00	\$14.00	\$0.00		\$150.00

MUS-224 AURAL SKILLS II, 2 CREDITS

First 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.

Prerequisites: MUS-116

Corequisites: MUS-211

OC	MUS-224-01	349084 MW			1-1:50 PM	
	R. OLASON	\$272.00	\$28.00	\$85.00		\$385.00

MUS-242 ADVANCED ELECTRONIC MUSIC I: SYNTHESIS AND INSTRUMENT DESIGN, 3 CREDITS

This course will feature an advanced survey of the major forms of synthesis: Additive, Subtractive, Sample Based, Wavetable, FM, etc. and exploring their corresponding instruments in Ableton Live. Students will focus on creating instruments, patches, and packs in Ableton Live. Exploration of Drum Racks, Instrument Racks, and Audio Effects Racks for sound design and implementation in electronic music. Max for Live will be introduced and integrated.

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ESPAÑOL: Enseñado en español

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Course No	Course Title, Credits					
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Prerequisites: MUS-144

OC NCT	MUS-242-01	349085 T			4-6:50 PM	
	M. BAIRD	\$408.00	\$42.00	\$0.00		\$450.00

MUS-247 SOUND FOR MEDIA, 3 CREDITS

Introduction to sound as related to film making, animation, and video games. Students will have the opportunity to create and assemble sound for media into a finished product. Explores the basic components of commercial film/video, animation, and game production as they relate to sound.

Recommended: Experience using a DAW (Digital Audio Workstation) or video editing software

OC NCT	MUS-247-01	348821 W			3-5:50 PM	
	B. ROSE	\$408.00	\$42.00	\$0.00		\$450.00

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 NCT	MUS-280-01	349086				
	C. DOGGETT	\$816.00	\$84.00	\$144.00	\$1,044.00V	
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					
ONL NCT	MUS-280-02	349088				
	G. HARRIS	\$816.00	\$84.00	\$144.00	\$1,044.00V	
	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	349118 M			6:30 -9:20 PM	
	L. CLINE	\$0.00	\$0.00	\$0.00		\$0.00

Music: Individual Lessons - Non-Music Majors

MUP-100 INDIVIDUAL LESSONS: NON-MUSIC MAJORS, 1 CREDIT

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	348859 TBA				
	K. POLITZER	\$136.00	\$14.00	\$225.00		\$375.00
	Required: Student Petition. Jazz Piano Lessons.					
OC NCT	MUP-100-02	348860 TBA				
	Y. MIYAMA	\$136.00	\$14.00	\$225.00		\$375.00
	Required: Student Petition. Piano Lessons.					
OC NCT	MUP-100-03	348861 TBA				
	D. FLESCNER	\$136.00	\$14.00	\$225.00		\$375.00
	Required: Student Petition. Rock, Blues, and Pop Piano Lessons.					

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OC NCT	MUP-100-04 348862 TBA J. ISRAELS Required: Student Petition. Voice Lessons. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/29 or 9/30 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					\$136.00	\$14.00	\$225.00	\$375.00
OC NCT	MUP-100-05 348863 TBA B. MICHAEL Required: Student Petition. Voice Lessons. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/28 or 9/29 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					\$136.00	\$14.00	\$225.00	\$375.00
OC NCT	MUP-100-06 348864 TBA C. AVERILL Required: Student Petition. Cello Lessons.					\$136.00	\$14.00	\$225.00	\$375.00
OC NCT	MUP-100-07 348865 TBA K. DEITZ Required: Student Petition. Bass Lessons.					\$136.00	\$14.00	\$225.00	\$375.00
OC NCT	MUP-100-08 348866 TBA D. TUTMARK Required: Student Petition. Guitar Lessons.					\$136.00	\$14.00	\$225.00	\$375.00
OC NCT	MUP-100-09 348867 TBA A. CSIKOS Required: Student Petition. Guitar Lessons.					\$136.00	\$14.00	\$225.00	\$375.00
OC NCT	MUP-100-10 348868 TBA G. HARRIS Required: Student Petition. Saxophone Lessons.					\$136.00	\$14.00	\$225.00	\$375.00
OC NCT	MUP-100-11 348869 TBA J. KLAUSE Required: Student Petition. Trumpet Lessons.					\$136.00	\$14.00	\$225.00	\$375.00
OC NCT	MUP-100-12 348870 TBA C. DOGGETT Required: Student Petition. Percussion & Drum Set Lessons.					\$136.00	\$14.00	\$225.00	\$375.00
OC NCT	MUP-100-13 348871 TBA S. TIEDEMANN Required: Student Petition. Flute Lessons.					\$136.00	\$14.00	\$225.00	\$375.00
OC NCT	MUP-100-14 348872 TBA T. STOJANOVIC Required: Student Petition. Piano Lessons.					\$136.00	\$14.00	\$225.00	\$375.00
OC NCT	MUP-100-15 348873 TBA C. LEE Required: Student Petition. Oboe Lessons.					\$136.00	\$14.00	\$225.00	\$375.00
OC NCT	MUP-100-16 348874 TBA B. GARDINER Required: Student Petition. Percussion Lessons.					\$136.00	\$14.00	\$225.00	\$375.00
OC NCT	MUP-171-02 348906 TBA T. STOJANOVIC Required: Student Petition.					\$272.00	\$28.00	\$450.00	\$750.00
MUP-171J INDIVIDUAL LESSONS: JAZZ PIANO, 2 CREDITS Required: College-level performance ability									
OC NCT	MUP-171J-01 348907 TBA K. POLITZER Required: Student Petition.					\$272.00	\$28.00	\$450.00	\$750.00
MUP-171R INDIVIDUAL LESSONS: ROCK, BLUES, POP PIANO, 2 CREDITS Required: College-level performance ability									
OC NCT	MUP-171R-01 348908 TBA D. FLESCNER Required: Student Petition.					\$272.00	\$28.00	\$450.00	\$750.00
MUP-172 INDIVIDUAL LESSONS: ORGAN, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189									
OC NCT	MUP-172-01 348910 TBA J. HOLLAND Required: Student Petition.					\$272.00	\$28.00	\$450.00	\$750.00
MUP-174 INDIVIDUAL LESSONS: VOICE, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189									
OC NCT	MUP-174-01 348911 TBA J. ISRAELS Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/28 or 9/29 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					\$272.00	\$28.00	\$450.00	\$750.00
OC NCT	MUP-174-02 348912 TBA B. MICHAEL Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/28 or 9/29 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					\$272.00	\$28.00	\$450.00	\$750.00
MUP-174J INDIVIDUAL LESSONS: JAZZ VOICE, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189									
OC NCT	MUP-174J-01 348914 TBA J. ISRAELS Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/28 or 9/29 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					\$272.00	\$28.00	\$450.00	\$750.00
OC NCT	MUP-174J-02 348915 TBA B. MICHAEL Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/28 or 9/29 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					\$272.00	\$28.00	\$450.00	\$750.00
MUP-174R INDIVIDUAL LESSONS: ROCK, BLUES, POP VOICE, 2 CREDITS									

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 348905 TBA Y. MIYAMA Required: Student Petition.					\$272.00	\$28.00	\$450.00	\$750.00
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2026/FA

Course No Course Title, Credits							Course No Course Title, Credits						
Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time				Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time			
Instructor	Tuition	Fee	Crs. Fee	Total			Instructor	Tuition	Fee	Crs. Fee	Total		
Required: College-level performance ability							Required: College-level performance ability						
OC NCT	MUP-174R-01 348917 TBA						OC NCT	MUP-179-01 348934 TBA					
	J. ISRAELS \$272.00 \$28.00 \$450.00 \$750.00							TBA \$272.00 \$28.00 \$450.00 \$750.00					
	Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/28 or 9/29 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.							Required: Student Petition.					
OC NCT	MUP-174R-02 348918 TBA						MUP-180 INDIVIDUAL LESSONS: GUITAR, 2 CREDITS						
	B. MICHAEL \$272.00 \$28.00 \$450.00 \$750.00						Required: College-level performance ability						
	Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/28 or 9/29 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.						Corequisites: MUS-189						
							OC NCT	MUP-180-01 348935 TBA					
								D. TUTMARK \$272.00 \$28.00 \$450.00 \$750.00					
								Required: Student Petition.					
MUP-175 INDIVIDUAL LESSONS: VIOLIN, 2 CREDITS							MUP-180J INDIVIDUAL LESSONS: JAZZ GUITAR, 2 CREDITS						
Required: College-level performance ability							Required: College-level performance ability						
Corequisites: MUS-189													
OC NCT	MUP-175-01 348920 TBA						OC NCT	MUP-180J-01 348938 TBA					
	D. D'AIGLE \$272.00 \$28.00 \$450.00 \$750.00							J. RADSLIFF \$272.00 \$28.00 \$450.00 \$750.00					
	Required: Student Petition.							Required: Student Petition.					
MUP-176 INDIVIDUAL LESSONS: VIOLA, 2 CREDITS							MUP-180R INDIVIDUAL LESSONS: ROCK, BLUES, POP GUITAR, 2 CREDITS						
Required: College-level performance ability							Required: College-level performance ability						
Corequisites: MUS-189													
OC NCT	MUP-176-01 348923 TBA						OC NCT	MUP-180R-01 348939 TBA					
	H. OSEAS \$272.00 \$28.00 \$450.00 \$750.00							A. CSIKOS \$272.00 \$28.00 \$450.00 \$750.00					
	Required: Student Petition.							Required: Student Petition.					
MUP-177 INDIVIDUAL LESSONS: CELLO, 2 CREDITS							MUP-181 INDIVIDUAL LESSONS: FLUTE, 2 CREDITS						
Required: College-level performance ability							Required: College-level performance ability						
Corequisites: MUS-189							Corequisites: MUS-189						
OC NCT	MUP-177-01 348924 TBA						OC NCT	MUP-181-01 348941 TBA					
	C. AVERILL \$272.00 \$28.00 \$450.00 \$750.00							S. TIEDEMANN \$272.00 \$28.00 \$450.00 \$750.00					
	Required: Student Petition.							Required: Student Petition.					
MUP-178 INDIVIDUAL LESSONS: BASS, 2 CREDITS							MUP-181J INDIVIDUAL LESSONS: JAZZ FLUTE, 2 CREDITS						
Required: College-level performance ability							Required: College-level performance ability						
Corequisites: MUS-189													
OC NCT	MUP-178-01 348927 TBA						OC NCT	MUP-181J-01 348944 TBA					
	K. DEITZ \$272.00 \$28.00 \$450.00 \$750.00							G. HARRIS \$272.00 \$28.00 \$450.00 \$750.00					
	Required: Student Petition.							Required: Student Petition.					
MUP-178J INDIVIDUAL LESSONS: JAZZ BASS, 2 CREDITS							MUP-182 INDIVIDUAL LESSONS: OBOE, 2 CREDITS						
Required: College-level performance ability							Required: College-level performance ability						
OC NCT	MUP-178J-01 348929 TBA						Corequisites: MUS-189						
	K. DEITZ \$272.00 \$28.00 \$450.00 \$750.00						OC NCT	MUP-182-01 348946 TBA					
	Required: Student Petition.							C. LEE \$272.00 \$28.00 \$450.00 \$750.00					
OC NCT	MUP-178J-02 348931 TBA							Required: Student Petition.					
	B. LEE \$272.00 \$28.00 \$450.00 \$750.00						MUP-183 INDIVIDUAL LESSONS: CLARINET, 2 CREDITS						
	Required: Student Petition.						Required: College-level performance ability						
MUP-178R INDIVIDUAL LESSONS: ROCK, BLUES, POP BASS, 2 CREDITS							Corequisites: MUS-189						
Required: College-level performance ability							OC NCT	MUP-183-01 348948 TBA					
OC NCT	MUP-178R-01 348932 TBA							L. DE MARTINO \$272.00 \$28.00 \$450.00 \$750.00					
	K. DEITZ \$272.00 \$28.00 \$450.00 \$750.00							Required: Student Petition.					
	Required: Student Petition.						MUP-184 INDIVIDUAL LESSONS: SAXOPHONE, 2 CREDITS						
MUP-179 INDIVIDUAL LESSONS: HARP, 2 CREDITS							Required: College-level performance ability						
							Corequisites: MUS-189						
OC NCT	MUP-184-01 348952 TBA						OC NCT	MUP-184-01 348952 TBA					
	G. HARRIS \$272.00 \$28.00 \$450.00 \$750.00							G. HARRIS \$272.00 \$28.00 \$450.00 \$750.00					
	Required: Student Petition.							Required: Student Petition.					

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MUP-184J	INDIVIDUAL LESSONS: JAZZ SAXOPHONE, 2 CREDITS									
Required: College-level performance ability										
OC NCT	MUP-184J-01 348954 TBA		G. HARRIS			\$272.00	\$28.00	\$450.00		\$750.00
	Required: Student Petition.									
MUP-185	INDIVIDUAL LESSONS: BASSOON, 2 CREDITS									
Required: College-level performance ability										
Corequisites: MUS-189										
OC NCT	MUP-185-01 348956 TBA		N. BUETTI			\$272.00	\$28.00	\$450.00		\$750.00
	Required: Student Petition.									
MUP-186	INDIVIDUAL LESSONS: TRUMPET, 2 CREDITS									
Required: College-level performance ability										
Corequisites: MUS-189										
OC NCT	MUP-186-01 348958 TBA		J. KLAUSE			\$272.00	\$28.00	\$450.00		\$750.00
	Required: Student Petition.									
MUP-186J	INDIVIDUAL LESSONS: JAZZ TRUMPET, 2 CREDITS									
Required: College-level performance ability										
OC NCT	MUP-186J-01 348959 TBA		Q. WALKER			\$272.00	\$28.00	\$450.00		\$750.00
	Required: Student Petition.									
MUP-187	INDIVIDUAL LESSONS: FRENCH HORN, 2 CREDITS									
Required: College-level performance ability										
Corequisites: MUS-189										
OC NCT	MUP-187-01 348962 TBA		R. OLASON			\$272.00	\$28.00	\$450.00		\$750.00
	Required: Student Petition.									
MUP-188	INDIVIDUAL LESSONS: TROMBONE, 2 CREDITS									
Required: College-level performance ability										
Corequisites: MUS-189										
OC NCT	MUP-188-01 348964 TBA		C. RENEAU			\$272.00	\$28.00	\$450.00		\$750.00
	Required: Student Petition.									
MUP-188J	INDIVIDUAL LESSONS: JAZZ TROMBONE, 2 CREDITS									
Required: College-level performance ability										
OC NCT	MUP-188J-01 348967 TBA		L. CAMPBELL			\$272.00	\$28.00	\$450.00		\$750.00
	Required: Student Petition.									
MUP-189	INDIVIDUAL LESSONS: EUPHONIUM, 2 CREDITS									
Required: College-level performance ability										
Corequisites: MUS-189										
OC NCT	MUP-189-01 348968 TBA		TBA			\$272.00	\$28.00	\$450.00		\$750.00
	Required: Student Petition.									
MUP-190	INDIVIDUAL LESSONS: TUBA, 2 CREDITS									
Required: College-level performance ability										
Corequisites: MUS-189										
OC NCT	MUP-190-01 348970 TBA		TBA			\$272.00	\$28.00	\$450.00		\$750.00
	Required: Student Petition.									
MUP-191	INDIVIDUAL LESSONS: PERCUSSION, 2 CREDITS									
Required: College-level performance ability										
Corequisites: MUS-189										
OC NCT	MUP-191-01 348972 TBA		B. GARDINER			\$272.00	\$28.00	\$450.00		\$750.00
	Required: Student Petition.									
MUP-191J	INDIVIDUAL LESSONS: JAZZ PERCUSSION, 2 CREDITS									
Required: College-level performance ability										
OC NCT	MUP-191J-01 348975 TBA		C. DOGGETT			\$272.00	\$28.00	\$450.00		\$750.00
	Required: Student Petition.									
MUP-191R	INDIVIDUAL LESSONS: ROCK, BLUES, POP DRUMSET, 2 CREDITS									
Required: College-level performance ability										
OC NCT	MUP-191R-01 348977 TBA		C. DOGGETT			\$272.00	\$28.00	\$450.00		\$750.00
	Required: Student Petition.									
MUP-192T	INDIVIDUAL LESSONS: AUDIO TECH, 2 CREDITS									
Required: College-level performance ability										
OC NCT	MUP-192T-01 348978 TBA		M. BAIRD			\$272.00	\$28.00	\$450.00		\$750.00
	Required: Student Petition. Electronic Music Lessons.									
OC NCT	MUP-192T-02 348980 TBA		D. BADSTUBNER			\$272.00	\$28.00	\$450.00		\$750.00
	Required: Student Petition. Audio Recording Lessons.									
OC NCT	MUP-192T-03 348981 TBA		R. SOMMERS			\$272.00	\$28.00	\$450.00		\$750.00
	Required: Student Petition. Live Sound Lessons.									

Music: Individual Lessons - Year 2

Second-year 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.

MUP-271 INDIVIDUAL LESSONS: PIANO, 2 CREDITS

Prerequisites: MUP-171 (6 credits)

Corequisites: MUS-189

Required: Sophomore-level performance ability

OC NCT	MUP-271-01 348997 TBA		Y. MIYAMA			\$272.00	\$28.00	\$450.00		\$750.00
OC NCT	MUP-271-02 348998 TBA		T. STOJANOVIC			\$272.00	\$28.00	\$450.00		\$750.00

MUP-271J INDIVIDUAL LESSONS: JAZZ PIANO, 2 CREDITS

Prerequisites: MUP-171J (6 credits)

Required: Sophomore-level performance ability

OC NCT	MUP-271J-01 348999 TBA		K. POLITZER			\$272.00	\$28.00	\$450.00		\$750.00
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MUP-271R INDIVIDUAL LESSONS: ROCK, BLUES, POP PIANO, 2 CREDITS

Prerequisites: MUP-171R (6 credits)

Required: Sophomore-level performance ability

OC NCT	MUP-271R-01 349000 TBA		D. FLESHNER			\$272.00	\$28.00	\$450.00		\$750.00
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MUP-272	INDIVIDUAL LESSONS: ORGAN, 2 CREDITS									
Prerequisites: MUP-172 (6 credits)										
Corequisites: MUS-189										
Required: Sophomore-level performance ability										
OC NCT	MUP-272-01	349001	TBA							
	J. HOLLAND					\$272.00	\$28.00	\$450.00		\$750.00
MUP-274	INDIVIDUAL LESSONS: VOICE, 2 CREDITS									
Prerequisites: MUP-174 (6 credits)										
Corequisites: MUS-189										
Required: Sophomore-level performance ability										
OC NCT	MUP-274-01	349002	TBA							
	J. ISRAELS					\$272.00	\$28.00	\$450.00		\$750.00
OC NCT	MUP-274-02	349003	TBA							
	B. MICHAEL					\$272.00	\$28.00	\$450.00		\$750.00
MUP-274J	INDIVIDUAL LESSONS: JAZZ VOICE, 2 CREDITS									
Prerequisites: MUP-174J (6 credits)										
Corequisites: MUS-189										
Required: Sophomore-level performance ability										
OC NCT	MUP-274J-01	349004	TBA							
	J. ISRAELS					\$272.00	\$28.00	\$450.00		\$750.00
OC NCT	MUP-274J-02	349005	TBA							
	B. MICHAEL					\$272.00	\$28.00	\$450.00		\$750.00
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	349006	TBA							
	J. ISRAELS					\$272.00	\$28.00	\$450.00		\$750.00
OC NCT	MUP-274R-02	349007	TBA							
	B. MICHAEL					\$272.00	\$28.00	\$450.00		\$750.00
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	349008	TBA							
	D. D'AIGLE					\$272.00	\$28.00	\$450.00		\$750.00
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	349009	TBA							
	H. OSEAS					\$272.00	\$28.00	\$450.00		\$750.00
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	349010	TBA							
	C. AVERILL					\$272.00	\$28.00	\$450.00		\$750.00
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	349011	TBA							
	K. DEITZ					\$272.00	\$28.00	\$450.00		\$750.00
MUP-278J	INDIVIDUAL LESSONS: JAZZ BASS, 2 CREDITS									
Prerequisites: MUP-178J (6 credits)										
Required: Sophomore-level performance ability										
OC NCT	MUP-278J-01	349012	TBA							
	K. DEITZ					\$272.00	\$28.00	\$450.00		\$750.00
OC NCT	MUP-278J-02	349013	TBA							
	B. LEE					\$272.00	\$28.00	\$450.00		\$750.00
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	349014	TBA							
	K. DEITZ					\$272.00	\$28.00	\$450.00		\$750.00
MUP-279	INDIVIDUAL LESSONS: HARP, 2 CREDITS									
Prerequisites: MUP-179 (6 credits)										
Corequisites: MUS-189										
Required: Sophomore-level performance ability										
OC NCT	MUP-279-01	349015	TBA							
	TBA					\$272.00	\$28.00	\$450.00		\$750.00
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	349016	TBA							
	D. TUTMARK					\$272.00	\$28.00	\$450.00		\$750.00
MUP-280J	INDIVIDUAL LESSONS: JAZZ GUITAR, 2 CREDITS									
Prerequisites: MUP-180J (6 credits)										
Required: Sophomore-level performance ability										
OC NCT	MUP-280J-01	349017	TBA							
	J. RADSLIFF					\$272.00	\$28.00	\$450.00		\$750.00
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	349018	TBA							
	A. CSIKOS					\$272.00	\$28.00	\$450.00		\$750.00
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	349019	TBA							
	S. TIEDEMANN					\$272.00	\$28.00	\$450.00		\$750.00
MUP-281J	INDIVIDUAL LESSONS: JAZZ FLUTE, 2 CREDITS									
Prerequisites: MUP-181J (6 credits)										
Required: Sophomore-level performance ability										
OC NCT	MUP-281J-01	349020	TBA							
	G. HARRIS					\$272.00	\$28.00	\$450.00		\$750.00
MUP-282	INDIVIDUAL LESSONS: OBOE, 2 CREDITS									

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Course Listing

2026/FA

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		
Prerequisites: MUP-182 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability								MUP-288J INDIVIDUAL LESSONS: JAZZ TROMBONE, 2 CREDITS Prerequisites: MUP-188J (6 credits) Required: Sophomore-level performance ability									
OC NCT	MUP-282-01 C. LEE	349021	TBA	\$272.00	\$28.00	\$450.00	\$750.00	OC NCT	MUP-288J-01 L. CAMPBELL	349032	TBA	\$272.00	\$28.00	\$450.00	\$750.00		
MUP-283 INDIVIDUAL LESSONS: CLARINET, 2 CREDITS Prerequisites: MUP-183 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability								MUP-289 INDIVIDUAL LESSONS: EUPHONIUM, 2 CREDITS Prerequisites: MUP-189 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability									
OC NCT	MUP-283-01 L. DE MARTINO	349022	TBA	\$272.00	\$28.00	\$450.00	\$750.00	OC NCT	MUP-289-01 TBA	349033	TBA	\$272.00	\$28.00	\$450.00	\$750.00		
MUP-284 INDIVIDUAL LESSONS: SAXOPHONE, 2 CREDITS Prerequisites: MUP-184 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability								MUP-290 INDIVIDUAL LESSONS: TUBA, 2 CREDITS Prerequisites: MUP-190 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability									
OC NCT	MUP-284-01 G. HARRIS	349024	TBA	\$272.00	\$28.00	\$450.00	\$750.00	OC NCT	MUP-290-01 TBA	349034	TBA	\$272.00	\$28.00	\$450.00	\$750.00		
MUP-284J INDIVIDUAL LESSONS: JAZZ SAXOPHONE, 2 CREDITS Prerequisites: MUP-184J (6 credits) Required: Sophomore-level performance ability								MUP-291 INDIVIDUAL LESSONS: PERCUSSION, 2 CREDITS Prerequisites: MUP-191 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability									
OC NCT	MUP-284J-01 G. HARRIS	349025	TBA	\$272.00	\$28.00	\$450.00	\$750.00	OC NCT	MUP-291-01 B. GARDINER	349035	TBA	\$272.00	\$28.00	\$450.00	\$750.00		
MUP-285 INDIVIDUAL LESSONS: BASSOON, 2 CREDITS Prerequisites: MUP-185 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability								MUP-291J INDIVIDUAL LESSONS: JAZZ PERCUSSION, 2 CREDITS Prerequisites: MUP-191J (6 credits) Required: Sophomore-level performance ability									
OC NCT	MUP-285-01 N. BUETTI	349026	TBA	\$272.00	\$28.00	\$450.00	\$750.00	OC NCT	MUP-291J-01 C. DOGGETT	349036	TBA	\$272.00	\$28.00	\$450.00	\$750.00		
MUP-286 INDIVIDUAL LESSONS: TRUMPET, 2 CREDITS Prerequisites: MUP-186 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability								MUP-291R INDIVIDUAL LESSONS: ROCK, BLUES, POP DRUMSET, 2 CREDITS Prerequisites: MUP-191R (6 credits) Required: Sophomore-level performance ability									
OC NCT	MUP-286-01 J. KLAUSE	349027	TBA	\$272.00	\$28.00	\$450.00	\$750.00	OC NCT	MUP-291R-01 C. DOGGETT	349037	TBA	\$272.00	\$28.00	\$450.00	\$750.00		
MUP-286J INDIVIDUAL LESSONS: JAZZ TRUMPET, 2 CREDITS Prerequisites: MUP-186J (6 credits) Required: Sophomore-level performance ability								MUP-292T INDIVIDUAL LESSONS: AUDIO TECH, 2 CREDITS Prerequisites: MUP-192T (6 credits) Required: Sophomore-level performance ability									
OC NCT	MUP-286J-01 Q. WALKER	349028	TBA	\$272.00	\$28.00	\$450.00	\$750.00	OC NCT	MUP-292T-01 M. BAIRD	349038	TBA	\$272.00	\$28.00	\$450.00	\$750.00		
MUP-287 INDIVIDUAL LESSONS: FRENCH HORN, 2 CREDITS Prerequisites: MUP-187 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability								Electronic Music Lessons. MUP-292T-02 349039 TBA D. BADSTUBNER \$272.00 \$28.00 \$450.00 \$750.00 Audio Recording Lessons.									
OC NCT	MUP-287-01 R. OLASON	349029	TBA	\$272.00	\$28.00	\$450.00	\$750.00	OC NCT	MUP-292T-03 R. SOMMERS	349040	TBA	\$272.00	\$28.00	\$450.00	\$750.00		
MUP-288 INDIVIDUAL LESSONS: TROMBONE, 2 CREDITS Prerequisites: MUP-188 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability								Live Sound Lessons.									
OC NCT	MUP-288-01 C. RENEAU	349030	TBA	\$272.00	\$28.00	\$450.00	\$750.00										

Nursing

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60 For information about Clackamas Community College, call **503-594-6000**

Course Listing

2026/FA

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	NRS-222C-02 349098 W J. GRANT K. RICHARDS					\$680.00	\$70.00	7-7:20 PM	\$378.00	\$1,128.00
HAR	NRS-222C-03 349099 F K. RICHARDS					\$680.00	\$70.00	7-7:20 PM	\$378.00	\$1,128.00
HAR	NRS-222C-04 349100 TH K. RICHARDS J. STOREY					\$680.00	\$70.00	7-7:20 PM	\$378.00	\$1,128.00
HAR	NRS-222C-05 349101 TH A. HASKINS K. RICHARDS					\$680.00	\$70.00	7-7:20 PM	\$378.00	\$1,128.00
HAR HYB	NUR-100-01 349105 TW M. BAKER M. COX					\$884.00	\$91.00	8-12:30 PM	\$350.00	\$1,325.00
Required: Student Petition. Application required to enter the course. Application details can be found on the webpage. Mandatory Orientation will be held in person on the Harmony Campus for those conditionally accepted into the course. Please see the Nursing Assistant webpage for dates and details.										
HAR HYB	NUR-100-02 349106 TW M. COX K. STIPE					\$884.00	\$91.00	1-5:30 PM	\$350.00	\$1,325.00
Required: Student Petition. Application required to enter the course. Application details can be found on the webpage. Mandatory Orientation will be held in person on the Harmony Campus for those conditionally accepted into the course. Please see the Nursing Assistant webpage for dates and details.										

NRS-230 CLINICAL PHARMACOLOGY I, 3 CREDITS

This course introduces the theoretical background that enables students to provide safe and effective care related to drugs and natural products to persons throughout the lifespan. It includes the foundational concepts of principles of pharmacology, nonopioid analgesics, and antibiotics, as well as additional classes of drugs. Students will learn to make selected clinical decisions in the context of nursing regarding using current, reliable sources of information, understanding of pharmacokinetics and pharmacodynamics, developmental physiologic considerations, monitoring and evaluating the effectiveness of drug therapy, teaching persons from diverse populations regarding safe and effective use of drugs and natural products, intervening to increase therapeutic benefits and reduce potential negative effects, and communicating appropriately with other health professionals regarding drug therapy. Drugs are studied by therapeutic or pharmacological class using an organized framework.

Required: Acceptance into the CCC nursing program

Corequisites: NRS-110 and NRS-110C

HAR HYB	NRS-230-01 349103 F K. RICHARDS					\$408.00	\$42.00	8:30 -10:20 AM	\$210.00	\$660.00
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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; Complete online application located on program webpage and attend a mandatory orientation. 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

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 349109 TBA				
	K. STIPE	\$0.00	\$0.00	\$0.00	\$0.00
	Required: Student Petition.				
HAR	NUR-100C-02 349110 TBA				
	M. COX	\$0.00	\$0.00	\$0.00	\$0.00
	Required: Student Petition.				
HAR	NUR-100C-03 349111 TBA				
	M. BAKER	\$0.00	\$0.00	\$0.00	\$0.00
	Required: Student Petition.				
HAR	NUR-100C-04 353128 TBA				
	M. COX	\$0.00	\$0.00	\$0.00	\$0.00
	Required: Student Petition.				

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 349884 TTH M. BAILEY					\$544.00	\$56.00	1-2:50 PM	\$0.00	\$600.00
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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 349887 W M. BAILEY					\$544.00	\$56.00	1-2:50 PM	\$0.00	\$600.00
ONL NCT	PHL-102-02 349891 M. BAILEY					\$544.00	\$56.00		\$0.00	\$600.00

PHL-103 CRITICAL REASONING, 4 CREDITS

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Course Listing

2026/FA

Course No	Course Title, Credits					
Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total
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	349892				
	K. HADDIX		\$544.00	\$56.00	\$0.00	\$600.00

Phlebotomy

PHB-110 FUNDAMENTALS OF PHLEBOTOMY, 5 CREDITS

Introduces students to the practice of phlebotomy and the role of the phlebotomist as part of the healthcare team. Students will become familiar with phlebotomy equipment and learn about basic blood collection procedures. Students will identify medical terminology, anatomy, and physiology related to phlebotomy. Students will learn about specimen collection procedures, safety protocols, quality control, and regulatory compliance related to the role of a phlebotomist. This course provides recorded skills demonstrations to help prepare students for the skills lab.

Required: Acceptance into the Phlebotomy program

Corequisites: PHB-112 and PHB-115

Recommended Prerequisites: BI-120, or BI-101 & BI-102, or BI-231Z & BI-232Z & BI-233Z. HP-110, and WR-101 or WR-121Z

ONL	PHB-110-01	349112				
	E. ZUNIGA		\$680.00	\$70.00	\$0.00	\$750.00

PHB-112 PHLEBOTOMY TECHNIQUES, 2 CREDITS

Perform venipuncture, capillary puncture, and specimen processing. This course is designed to provide students with active-learning experiences and hands-on training necessary to develop the skills of an entry-level phlebotomist. The student will learn the procedures performed by a phlebotomist and will become familiar with different types of equipment and techniques applied. Instruction on laboratory safety and standards will be emphasized.

Required: Acceptance into the Phlebotomy program

Corequisites: PHB-110 and PHB-115

Recommended Prerequisites: BI-120, or BI-101 & BI-102, or BI-231Z & BI-232Z & BI-233Z. HP-110, and WR-101 or WR-121Z

HAR	PHB-112-01	349113 WF			9-12:00 PM	
	J. ALLISON		\$272.00	\$28.00	\$150.00	\$450.00
	E. ZUNIGA					
HAR	PHB-112-02	349114 WF			1-4:00 PM	
	J. ALLISON		\$272.00	\$28.00	\$150.00	\$450.00
	E. ZUNIGA					

PHB-115 PROFESSIONALISM FOR PHLEBOTOMISTS, 1 CREDIT

Introduces professionalism in the healthcare setting and prepares students for clinical placement.

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

Corequisites: PHB-110 and PHB-112

ONL	PHB-115-01	349116				
	E. ZUNIGA		\$136.00	\$14.00	\$100.00	\$250.00

Physical Education

PE-185 PHYSICAL ACTIVITY CLASSES, 1 CREDIT

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Recommended: Current physical examination before enrolling

BASEBALL TECHNIQUES II, 1 CREDIT						
OC	PE-185-006	353146	MTWTH		3-4:50 PM	
	J. HOPPEL		\$136.00	\$14.00	\$30.00	\$180.00
	Required: Student Petition.					
BASKETBALL, MEN'S CNDTNG II, 1 CREDIT						
OC	PE-185-004	353144	MWF		12-12:50 PM	
	B. STAMME		\$136.00	\$14.00	\$30.00	\$180.00
	Required: Student Petition.					
BASKETBALL, WOMEN'S CNDTNG II, 1 CREDIT						
OC NCT	PE-185-005	353145	MWF		3-3:50 PM	
	K. GUELSDORF		\$136.00	\$14.00	\$30.00	\$180.00
	J. MARTINEAU					
	Required: Student Petition.					
CROSS TRAINING IV, 1 CREDIT						
ONL NCT	PE-185-028	353147				
	B. STAMME		\$136.00	\$14.00	\$30.00	\$180.00
CROSS TRAINING IV, 1 CREDIT						
ONL NCT	PE-185-031	353148				
	B. STAMME		\$136.00	\$14.00	\$30.00	\$180.00
CROSS TRAINING IV, 1 CREDIT						
ONL NCT	PE-185-034	353149				
	B. STAMME		\$136.00	\$14.00	\$30.00	\$180.00
CROSS TRAINING IV, 1 CREDIT						
ONL	PE-185-041	353213				
	J. MARTINEAU		\$136.00	\$14.00	\$30.00	\$180.00
SOFTBALL TECHNIQUES II, 1 CREDIT						
OC NCT	PE-185-064	353150	MTWTH		1-2:50 PM	
	J. BUEL		\$136.00	\$14.00	\$30.00	\$180.00
	Meets: 9/8-10/6. Required: Student Petition.					
TRACK FUNDAMENTALS II, 1 CREDIT						
OC NCT	PE-185-082	353152	MWF		1:30 -2:20 PM	
	J. MARTINEAU		\$136.00	\$14.00	\$30.00	\$180.00
	Required: Student Petition.					
WALK, JOG, FITNESS I, 1 CREDIT						
ONL NCT	PE-185-025	349919				
	TBA		\$136.00	\$14.00	\$30.00	\$180.00
WEIGHT TRAINING I, 1 CREDIT						
OC NCT	PE-185-039	349924	TTH		10-11:20 AM	
	B. STAMME		\$136.00	\$14.00	\$30.00	\$180.00
	J. STEINKE					
WEIGHT TRAINING I, 1 CREDIT						
ONL NCT	PE-185-018	349915				
	B. STAMME		\$136.00	\$14.00	\$30.00	\$180.00
WRESTLING CONDITIONING II, 1 CREDIT						
OC NCT	PE-185-076	353151	MTWTHF		6:30 -7:50 AM	
	R. SANCHEZ		\$136.00	\$14.00	\$30.00	\$180.00
	Meets: 9/8-10/7. Required: Student Petition.					
YOGA I, 1 CREDIT						
ONL NCT	PE-185-008	349912				
	E. HANCOCK		\$136.00	\$14.00	\$30.00	\$180.00
PE-194	PROFESSIONAL ACTIVITIES. 1 CREDIT					

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

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	SOCCER SKILLS & STRATEGIES, 1 CREDIT PE-194-03 349936 MW T. LEWIS	11-12:20 PM	\$136.00	\$14.00	\$30.00	\$180.00
	Required: Student Petition.					

OC NCT	VOLLEYBALL SKILLS & STRATEGIES, 1 CREDIT PE-194-04 349938 TTH L. HARRIS- ALEXANDER	6-7:20 PM	\$136.00	\$14.00	\$30.00	\$180.00
	Required: Student Petition.					

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 349943 TBA	\$408.00	\$42.00	\$0.00	\$450.00
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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

ONL NCT	PE-280-01	349944				
	T. NELSON		\$816.00	\$84.00	\$45.00	\$945.00V
	Required: Student Petition. 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	PH-121-40 349948 C. SHARON	\$544.00	\$56.00	\$25.00	\$625.00
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PH-121L ASTRONOMY LAB, 0 CREDIT

Lab course for PH-121L

Corequisites: PH-121

ONL	PH-121L-40 349950 C. SHARON	\$0.00	\$0.00	\$0.00	\$0.00
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PH-122 GENERAL ASTRONOMY, 4 CREDITS

A lab course including the properties of our sun, other stars and stellar evolution.

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	Crs. Fee	Total

Prerequisites: PH-121 or GS-107

Corequisites: PH-122L

OC	PH-122-01 349951 TTH C. SHARON	\$544.00	\$56.00	\$50.00	\$650.00
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PH-122L GENERAL ASTRONOMY LAB, 0 CREDIT

Lab course for PH-122

Corequisites: PH-122

OC	PH-122L-01 349952 W C. SHARON	\$0.00	\$0.00	\$0.00	\$0.00
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PH-201 GENERAL PHYSICS, 5 CREDITS

A lab course covering vectors, motion, kinematics, forces and Newton's laws, gravity, the conservation laws for momentum and energy, rotational motion, and oscillations.

Prerequisites: MTH-112Z or placement in MTH-251Z

Corequisites: PH-201L and PH-201S

Prerequisites: WRD-090 with a C or better or placement in WRD-098

Recommended Prerequisites: A year of high-school physics or PH-150

OC	PH-201-01 349954 MW E. ALHATMI	\$680.00	\$70.00	\$50.00	\$800.00
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PH-201L GENERAL PHYSICS LAB, 0 CREDIT

Lab course for PH-201

Corequisites: PH-201 and PH-201S

OC	PH-201L-01 349955 T E. ALHATMI	\$0.00	\$0.00	\$0.00	\$0.00
OC	PH-201L-02 349956 T E. ALHATMI	\$0.00	\$0.00	\$0.00	\$0.00
OC	PH-201L-03 349958 TH E. ALHATMI	\$0.00	\$0.00	\$0.00	\$0.00
OC	PH-201L-04 349960 F G. BOSTROM	\$0.00	\$0.00	\$0.00	\$0.00
OC	PH-201L-05 353090 TH E. ALHATMI	\$0.00	\$0.00	\$0.00	\$0.00

PH-201S GENERAL PHYSICS SEMINAR, 0 CREDIT

Seminar course for PH-201

Corequisites: PH-201 and PH-201L

OC	PH-201S-01 349961 MW E. ALHATMI	\$0.00	\$0.00	\$0.00	\$0.00
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PH-211 GENERAL PHYSICS WITH CALCULUS, 5 CREDITS

A lab course covering vectors, motion, kinematics, forces and Newton's laws, gravity, conservation laws for momentum and energy, rotational motion, and oscillations.

Prerequisite or Corequisite: MTH-252Z

Corequisites: PH-211L and PH-211S

Prerequisite or Corequisite: WRD-090 with a C or better or placement in WRD-098

Recommended Prerequisites: MTH-254. A year of high-school physics or PH-150

OC LCT	PH-211-01 349962 MW G. BOSTROM	\$680.00	\$70.00	\$50.00	\$800.00
OC LCT	PH-211-02 349964 MW G. BOSTROM	\$680.00	\$70.00	\$50.00	\$800.00
OC	PH-211-03 353091 TTH G. BOSTROM	\$680.00	\$70.00	\$50.00	\$800.00

PH-211L GENERAL PHYSICS WITH CALCULUS LAB, 0 CREDIT

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/FA

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

Lab course for PH-211

Corequisites: PH-211 and PH-211S

OC	PH-211L-01	349965	T					9-11:50 AM		
	E. ALHATMI			\$0.00	\$0.00	\$0.00	\$0.00			
OC	PH-211L-02	349967	T					1-3:50 PM		
	E. ALHATMI			\$0.00	\$0.00	\$0.00	\$0.00			
OC	PH-211L-03	349968	TH					1-3:50 PM		
	E. ALHATMI			\$0.00	\$0.00	\$0.00	\$0.00			
OC	PH-211L-04	349971	F					11-1:50 PM		
	G. BOSTROM			\$0.00	\$0.00	\$0.00	\$0.00			
OC	PH-211L-05	353089	TH					9-11:50 AM		
	E. ALHATMI			\$0.00	\$0.00	\$0.00	\$0.00			

PH-211S GENERAL PHYSICS WITH CALCULUS SEMINAR, 0 CREDIT

Seminar course for PH-211

Corequisites: PH-211 and PH-211L

OC	PH-211S-01	349972	T					4-4:50 PM		
	G. BOSTROM			\$0.00	\$0.00	\$0.00	\$0.00			
OC	PH-211S-02	349973	W					3-3:50 PM		
	G. BOSTROM			\$0.00	\$0.00	\$0.00	\$0.00			
OC	PH-211S-03	349975	TH					4-4:50 PM		
	G. BOSTROM			\$0.00	\$0.00	\$0.00	\$0.00			
OC	PH-211S-04	349976	F					2-2:50 PM		
	G. BOSTROM			\$0.00	\$0.00	\$0.00	\$0.00			

Political Science

PS-200 INTRODUCTION TO POLITICAL SCIENCE, 4 CREDITS

A general introduction to the field of political science. Introduces and expands on basic political concepts and themes, explores political theory and ideology, and considers the dynamics of political institutions and government and how both are integrated into political life.

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

ONL NCT	PS-200-01	349896								
	J. HITE			\$544.00	\$56.00	\$0.00	\$600.00			

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-098 or placement in WRD-098

ONL NCT	PS-201-01	349899								
	J. HITE			\$544.00	\$56.00	\$0.00	\$600.00			

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	PS-280-01	349900								
	J. HITE			\$816.00	\$84.00	\$45.00	\$945.00V			
	D. LOUGEE									

Required: Student Petition. Corequisite: Take the following CWE-281-06.

Psychology

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
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OFF: Other Off-Campus Location

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HYB: In-person plus online work

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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-098 or placement in WRD-098

OC NCT	PSY-101-01	349904	TTH					10-11:20 AM		
	M. MALLATT			\$408.00	\$42.00	\$0.00	\$450.00			
HAR NCT	PSY-101-02	349909	MW					10-11:20 AM		
	E. SAUBER			\$408.00	\$42.00	\$0.00	\$450.00			
ONL NCT	PSY-101-03	349910								
	M. MALLATT			\$408.00	\$42.00	\$0.00	\$450.00			
ONL NCT	PSY-101-04	349911								
	M. MALLATT			\$408.00	\$42.00	\$0.00	\$450.00			

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-098 or placement in WRD-098

OC NCT	PSY-201Z-01	349914	MW					8-9:50 AM		
	J. KISSLER			\$544.00	\$56.00	\$0.00	\$600.00			
OC NCT	PSY-201Z-02	349916	MW					10-11:50 AM		
	J. KISSLER			\$544.00	\$56.00	\$0.00	\$600.00			
ONL	PSY-201Z-03	349917								
	S. TOBIN			\$544.00	\$56.00	\$0.00	\$600.00			

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-098 or placement in WRD-098

OC HYB	PSY-202Z-01	349918	T					10-11:50 AM		
	S. KISER			\$544.00	\$56.00	\$0.00	\$600.00			
ONL	PSY-202Z-02	349925								
	S. TOBIN			\$544.00	\$56.00	\$0.00	\$600.00			

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

OC NCT	PSY-215-01	349926	TTH					8-9:50 AM		
	J. KISSLER			\$544.00	\$56.00	\$0.00	\$600.00			
OC NCT	PSY-215-02	349929	TTH					10-11:50 AM		
	J. KISSLER			\$544.00	\$56.00	\$0.00	\$600.00			
HAR NCT	PSY-215-03	349930	MW					8-9:50 AM		
	E. SAUBER			\$544.00	\$56.00	\$0.00	\$600.00			
ONL NCT	PSY-215-04	349932								
	I. MANCINELLI-FRANCONI			\$544.00	\$56.00	\$0.00	\$600.00			

Course Listing

2026/FA

Course No	Course Title, Credits					
	Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Total
ONL NCT	PSY-215-05 T. THOMAS	349931		\$544.00	\$56.00	\$600.00

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 E. SAUBER	349933 TTH		\$544.00	\$56.00	\$600.00
ONL	PSY-219-02 S. KISER	349937		\$544.00	\$56.00	\$600.00
ONL	PSY-219-03 K. KRASKA	349939		\$544.00	\$56.00	\$703.49

Online textbook included in section fees.

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 E. SAUBER	349940 TTH		\$544.00	\$56.00	\$600.00
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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	PSY-280-01 E. SAUBER	349942		\$816.00	\$84.00	\$945.00V
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Required: Student Petition. Corequisite: Take the following CWE-281-06.

Religion

R-102 CHRISTIANITY AND ISLAM, 4 CREDITS

An introduction to Christianity and Islam, New Testament and Quran, the nature of Trinity and Tawhid, and includes the history and philosophy of other Western religious developments.

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

oc	R-102-01 J. SHELTON	349945 TTH		\$544.00	\$56.00	\$600.00
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R-204 HISTORY OF CHRISTIANITY, 4 CREDITS

An introduction to early Christianity, the Apostles, and formulation of the New Testament canon. Developments of post-apostolic Christianity and theology into the Modern Age. Contemporary topics include: Christianity in conflict, ethical and social religious issues, and the face of contemporary Christianity.

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

ONL	R-204-01 J. SHELTON	349946		\$544.00	\$56.00	\$600.00
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R-210 WORLD RELIGIONS, 4 CREDITS

Examines religions and philosophies from around the world through film, text, and/or online presentations. Introduces Hinduism, Buddhism, Chinese/Japanese religions, Christianity, Judaism, Islam, and many other religious systems.

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 Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Total
Recommended Prerequisites: WRD-090 or placement in WRD-098						
ONL	R-210-01 J. SHELTON	349947		\$544.00	\$56.00	\$600.00

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	R-280-01 D. LOUGEE J. SHELTON	349949		\$816.00	\$84.00	\$945.00V
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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

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 S. PAVEY	353076 MW		\$272.00	\$28.00	\$387.50
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RET-213 RENEWABLE ENERGY III: INSTALLATION & MAINTENANCE, 3 CREDITS

The third in a series of technical courses, Renewable Energy III: Installation and Maintenance will provide an introduction to installation and maintenance of renewable energy systems for commercial and residential installations. Students will apply their knowledge of electro-mechanical systems to the application of these systems. Topics covered will include site survey, site preparation, building codes, measurement tools, preventative maintenance and worksite safety. Includes hands-on lab exercises.

Prerequisites: RET-211

oc	RET-213-01 S. PAVEY	349980 TTH		\$408.00	\$42.00	\$581.25
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RET-280 RENEWABLE ENERGY/CWE, 1-6 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 NCT	RET-280-01 S. PAVEY	349982		\$816.00	\$84.00	\$1,207.50V
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Required: Student Petition. Corequisite: Take the following CWE-281-06.

Small Business Development Center

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

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-010-01FA	353265 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-011-01FA	353266 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-020-05FA	353267 T				6:30 -9:30 PM
	J. SELBY					
REM	SBM-020-06FA	353268 T				6:30 -9:30 PM
	J. SELBY					
REM	SBM-020-07FA	353269 T				6:30 -9:30 PM
	J. SELBY					
REM	SBM-020-08FA	353270 T				6:30 -9:30 PM
	J. SELBY					

SBM-021 STRATEGIC MANAGEMENT, 0 CREDIT

Part 1 of a multi-year program to help owners and managers of established businesses manage more effectively and achieve success. Course consists of class meetings, individual business counseling, peer networking, and work in/on the business. Class topics emphasize financial analysis, goals, and communication.

HAR HYB	SBM-021-01FA	353271 TH				1-3:00 PM
	J. FARIS					

SBM-028 CONTRACTOR ESSENTIALS MANAGEMENT, 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-028-01FA	353272				
	D. TOURNEY					
ONL	SBM-028-02FA	353273				
	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-01FA	353274				
	D. TOURNEY					
ONL	SBM-028A-02FA	353275				
	D. TOURNEY					

SBM-029 NEXT LEVEL CONTRACTING: ADVANCED BUSINESS STRATEGIES, 0 CREDIT

Provides information on continuing to grow a successful construction business. Teaches students technology, marketing, construction math, risk management, financial reporting, safety, payroll and government contracting.

REM	SBM-029-01FA	353276 W				6:30 -8:00 PM
	D. TOURNEY					

SBM-029A NEXT LEVEL CONTRACTING: ADVANCED BUSINESS STRATEGIES - 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-01FA	353277 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-030-01FA	353331 T				6:30 -8:00 PM
	D. TOURNEY					

SBM-031 SCOREBOARDS IN BUSINESS, 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.

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

Distance Education Notification:
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Course Listing

2026/FA

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
REM	SBM-031-01FA D. TOURNEY	353309	T					6:30 -8:00 PM		
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-01FA D. TOURNEY	353310	T					6:30 -8:00 PM		
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-0003-01FA J. SELBY	353228	TH					6:30 -9:30 PM		
REM	XSBM-0003-02FA J. SELBY	353230	TH					6:30 -9:30 PM		
REM	XSBM-0003-03FA J. SELBY	353231	TH					6:30 -9:30 PM		
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-0005-03FA D. TOURNEY	353235	TH					6:30 -8:30 PM		
REM	XSBM-0005-04FA D. TOURNEY	353232	TH					6:30 -8:30 PM		
REM	XSBM-0005-05FA D. TOURNEY	353233	TH					6:30 -8:30 PM		
REM	XSBM-0005-06FA D. TOURNEY	353234	TH					6:30 -8:30 PM		
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. Course sections are offered in English or Spanish.										
HAR	XSBM-0010-31FA	353105	THF					8-5:00 PM		
	O. FERRER		THF					11-1:30 PM		
			THF					3:30 -5:00 PM		
HAR	XSBM-0010-32FA	353259	THF					8-5:00 PM		
	O. FERRER		THF					11-1:30 PM		
			THF					3:30 -5:00 PM		
HAR	XSBM-0010-33FA	353260	THF					8-5:00 PM		
	O. FERRER		THF					11-1:30 PM		
			THF					3:30 -5:00 PM		
HAR	XSBM-0010-34FA	353107	THF					8-5:00 PM		
	TBA		THF					11-1:30 PM		
			THF					3:30 -5:00 PM		
HAR	XSBM-0010-35FA	353261	THF					8-5:00 PM		
	TBA		THF					11-1:30 PM		
			THF					3:30 -5:00 PM		
HAR	XSBM-0010-36FA	353262	THF					8-5:00 PM		
	TBA		THF					11-1:30 PM		
			THF					3:30 -5:00 PM		
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. Course sections are offered in English or Spanish.										
ONL	XSBM-0024-01FA D. TOURNEY	353263								
ONL	XSBM-0024-02FA D. TOURNEY	353264								
XSBM-0025 LCB PREP CLASS AND EXAM, 0 CREDIT										
This course provides the knowledge and instruction required to complete the Oregon Landscape Contractors Board (LCB) licensing exam, which is administered as part of the class. Topics include state laws and regulations, contracting practices, estimating, contracts, project management, safety, and basic business operations for the landscape construction industry. The course includes guided review and practice questions to support student success and is intended for individuals seeking to become licensed landscape contractors in Oregon. Course sections are offered in English or Spanish.										
HAR	XSBM-0025-01FA	353501	WTH					8-5:00 PM		
	S. CROSSWHITE		WTH					11-1:30 PM		
			WTH					3:30 -5:00 PM		
HAR	XSBM-0025-02FA	353502	WTH					8-5:00 PM		
	S. CROSSWHITE		WTH					11-1:30 PM		
			WTH					3:30 -5:00 PM		
HAR	XSBM-0025-03FA	353503	WTH					8-5:00 PM		
	S. CROSSWHITE		WTH					11-1:30 PM		
			WTH					3:30 -5:00 PM		

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ESPAÑOL: Enseñado en español
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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
HAR	XSBM-0025-04FA	354424	TTH					8-5:00 PM		
			TTH					11-1:30 PM		
			TTH					3:30 -5:00 PM		
	TBA									
XSBM-0026	EXIT SMART: RETIRING WITH SELLING & SUCCESSION STRATEGIES, 0 CREDIT									
Learn how to transition your small business by understanding the options. Succession planning in small business ownership is critical and complex. It is a 3-10 year process that, when done properly, helps owners maximize their return on their investment so they can reach their long-term goals in retirement. This course is designed to teach owners and individuals how to make it happen. Course consists of monthly class meetings, individual business counseling, peer networking, and work in/on the business.										
HAR HYB	XSBM-0026-01FA	353284	TH					1-4:00 PM		
	D. TOURNEY									

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 LCT	SOC-207-01	349969	J. LOVELESS			\$544.00	\$56.00	\$0.00		\$600.00
SOC-210	MARRIAGE, FAMILY, & INTIMATE RELATIONS, 4 CREDITS									
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	349970	J. LOVELESS			\$544.00	\$56.00	\$0.00		\$600.00
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	SOC-280-01	349974	J. LOVELESS			\$816.00	\$84.00	\$45.00		\$945.00V
	E. PFEIFER									
Required: Student Petition. Corequisite: Take the following CWE-281-06.										

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	SOC-204Z-01	349953	W					10-11:50 AM		
	E. PFEIFER					\$544.00	\$56.00	\$0.00		\$600.00
OC HYB	SOC-204Z-02	349957	TH					1-2:50 PM		
	E. PFEIFER					\$544.00	\$56.00	\$0.00		\$600.00

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	349959	J. LOVELESS			\$544.00	\$56.00	\$0.00		\$600.00

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	349963	TH					10-11:50 AM		
	E. PFEIFER					\$544.00	\$56.00	\$0.00		\$600.00
OC HYB	SOC-206Z-02	349966	W					1-2:50 PM		
	E. PFEIFER					\$544.00	\$56.00	\$0.00		\$600.00

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										
OC NCT	STAT-243Z-01	349989	MW			\$544.00	\$56.00	\$27.00		\$627.00
	K. MERCER									

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OC NCT	STAT-243Z-02 349990 MW		T. BIEBER			\$544.00	\$56.00	3-4:50 PM	\$27.00	\$627.00
OC NCT	STAT-243Z-03 349993 TTH		M. YANNOTTA			\$544.00	\$56.00	10-11:50 AM	\$27.00	\$627.00
OC NCT	STAT-243Z-04 349994 TTH		T. BIEBER			\$544.00	\$56.00	1-2:50 PM	\$27.00	\$627.00
ONL NCT	STAT-243Z-10 349996		K. MERCER			\$544.00	\$56.00		\$27.00	\$627.00

Theatre Arts

TA-101 APPRECIATION OF THEATRE, 4 CREDITS

Students will be introduced to the many aspects of theatre arts by attending multiple area productions and watching professionally recorded productions of other plays. Plays will be reviewed and evaluated through writing assignments and discussions.

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

ONL NCT	TA-101-01 349991		A. MOON			\$544.00	\$56.00		\$20.00	\$620.00
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TA-111 FUNDAMENTALS OF TECHNICAL THEATRE, 4 CREDITS

First class of a three-part series. Basic study and practice of script analysis and conceptualization as it applies to scenes, lighting and sound in theater productions. Students will use collaborative techniques of staging various types of productions for presentation. Includes basic principles and techniques in stage design, construction, and lighting. Students must attend a performance as well as participate in the focus and strike of a production. Students are required to maintain an independent journal/study of outside class activity and/or observations of Technical Theatre applications.

OC NCT	TA-111-01 349992 TTH		C. WHITTEN			\$544.00	\$56.00	1-3:50 PM	\$35.00	\$635.00
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TA-121 COSTUMING I, 3 CREDITS

First in a three-part series. Introduction to the fundamental principles and practice in theatrical costuming techniques. Basic sewing techniques, understanding fabrics, and an overview of how the costume design process works from concept to stage is emphasized. Students learn introductory costume construction and costume design techniques through a series of hands-on projects. May be repeated for up to 6 credits.

OC NCT	TA-121-01 349995 MW		A. MCFARLAND			\$408.00	\$42.00	10-12:50 PM	\$0.00	\$450.00
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TA-141 ACTING I, 4 CREDITS

Studies the methods, techniques, and theories of acting as an art form. Students perform acting exercises and monologues/scenes from dramatic literature, attend lectures, and participate in work-shopping and discussion. Written work is assigned that includes response and analysis papers. Introduces vocal, physical, and script analysis skills. First in a series.

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

OC NCT	TA-141-01 349998 MW		A. MOON			\$544.00	\$56.00	10-11:50 AM	\$35.00	\$635.00
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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 9 credits. Required: Student Petition.

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
Required: Successful audition/interview Recommended Prerequisite or Corequisite: TA-141 and TA-142, or TA-143; or TA-111 and TA-112, or TA-113										

OC NCT	TA-153-01 350000 MWF		A. MOON			\$408.00	\$42.00	3-5:50 PM	\$25.00	\$475.00V
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 9 credits.

OC NCT	TA-195-01 350004 MWF		A. MCFARLAND			\$408.00	\$42.00	12-2:50 PM	\$35.00	\$485.00V
A. MOON C. WHITTEN Meets: Improv 12-12:50pm, One-Acts 1-1:50pm, Stand-Up 2-2:50pm.										

TA-211 TECHNICAL THEATRE STUDY, 4 CREDITS

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; in direct support of the student performance showcase. Includes hands-on participation in CCC's main stage productions.

Prerequisites: TA-111, TA-112, and TA-113

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

OC NCT	TA-211-01 350009 TTH		C. WHITTEN			\$544.00	\$56.00	1-3:50 PM	\$35.00	\$635.00
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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

OC NCT	TA-253-01 350011 MWF		A. MOON			\$408.00	\$42.00	3-5:50 PM	\$25.00	\$475.00V
Required: Student Petition.										

TA-280 THEATRE/CWE, 2-6 CREDITS

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

ONL NCT	TA-280-01 350018		C. WHITTEN			\$816.00	\$84.00		\$45.00	\$945.00V
Required: Student Petition.										

TA-295 STUDENT PERFORMANCE SHOWCASE, 1-3 CREDITS (VAR)

Training in special forms of theatrical performance techniques through in-class intensive preparation, study, and program development for public presentation, including, but not limited to, 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.

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2026/FA

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	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	
Prerequisites: TA-195																
OC NCT	TA-295-01	350024	MWF			12-2:50 PM										
	A. MCFARLAND	\$408.00	\$42.00	\$35.00	\$485.00V											
	A. MOON															
	C. WHITTEN															
	Meets: Improv 12-12:50pm, One-Acts 1-1:50pm, Stand-Up 2-2:50pm.															
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	350185	MWF			3-5:50 PM										
	A. MOON	\$0.00	\$0.00	\$35.00	\$35.00											
XATH-0002	STAGECRAFT, 0 CREDIT															
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	350186	MWF			3-5:50 PM										
	A. MOON	\$0.00	\$0.00	\$35.00	\$35.00											
Water & Environmental Technology																
WET-010	WASTEWATER OPERATIONS I, 3 CREDITS															
For professional upgrade only. Does not meet the requirements for the certificate or degree. Introduction to the fundamentals of wastewater operations. Includes collections systems, preliminary and primary treatment, waste characteristics including organic removals, and solids profiles.																
oc	WET-010-01	350030	M			6-8:50 PM										
	M. LAFORCE	\$408.00	\$42.00	\$15.00	\$465.00											
	Required: Student Petition. For professional upgrade only.															
WET-011	WATERWORKS OPERATIONS I, 3 CREDITS															
For professional upgrade only. Does not meet the requirements for the certificate or degree. Introduction to municipal drinking water treatment and distribution systems. Basic waterworks hydraulics, drinking water regulations, waterworks math, waterworks microbiology, and introduction to water disinfection.																
oc	WET-011-01	350034	T			6-8:50 PM										
	J. NURMI	\$408.00	\$42.00	\$15.00	\$465.00											
	Required: Student Petition. For professional upgrade only.															
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	350036	TWTHF			8-3:50 PM										
	J. NURMI	\$408.00	\$42.00	\$0.00	\$450.00											
	Meets: 12/8-12/11. This is a four-day workshop. Must attend all four days for full credit and certification.															
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	350041	MTWTHF			8-5:00 PM										
	M. LAFORCE	\$544.00	\$56.00	\$0.00	\$600.00											
	Required: Student Petition. Meets: 12/7-12/11.															
oc	WET-109-02	350044	MTWTHF			8-5:00 PM										
	M. LAFORCE	\$544.00	\$56.00	\$0.00	\$600.00											
	Required: Student Petition. Meets: 9/14-9/18.															
WET-110	WASTEWATER OPERATIONS I, 3 CREDITS															
Introduction to the fundamentals of wastewater character and operations. Includes collections systems, preliminary and primary treatment, waste characteristics including organic removals, and solids profiles.																
Corequisites: MTH-082A																
oc	WET-110-01	350046	M			6-8:50 PM										
	M. LAFORCE	\$408.00	\$42.00	\$15.00	\$465.00											
WET-111	WATERWORKS OPERATIONS I, 3 CREDITS															
Introduction to municipal drinking water treatment and distribution systems. Basic waterworks hydraulics, drinking water regulations, waterworks math, waterworks microbiology, and introduction to water disinfection.																
Corequisites: MTH-082B																
oc	WET-111-01	350048	T			6-8:50 PM										
	J. NURMI	\$408.00	\$42.00	\$15.00	\$465.00											
WET-112	COMPUTER APPLICATIONS FOR WATER AND WASTEWATER OPERATIONS, 4 CREDITS															
Focuses on direct application of Microsoft Word, PowerPoint, and Excel for producing compliance reports, professional presentations, and data analysis. Emphasis will be put on the use of Excel for statistical analysis of water and wastewater plant data for state and federal compliance. Supervisory control and Data Acquisition (SCADA) will also be covered. Wastewater simulators will be explored and used to design and manipulate unit processes.																
Corequisites: WET-110 and WET-111																
oc	WET-112-01	350050	M			2-4:50 PM										
	M. LAFORCE	\$544.00	\$56.00	\$0.00	\$600.00											
WET-125	HIGH PURITY WATER PRODUCTION I, 3 CREDITS															
Fundamentals of high purity water chemistry, reverse osmosis treatment, ion exchange treatment, electrode ionization treatment, UV, ozonation, degasification and microfiltration as applied to the production of high purity water for the semiconductor, pharmaceutical and electric power generating industries.																
Corequisites: MTH-082E																
REM	WET-125-01	350054	T			9-12:50 PM										
	G. CARR	\$408.00	\$42.00	\$15.00	\$465.00											
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	WET-180-01	350057														
	M. LAFORCE	\$680.00	\$70.00	\$45.00	\$795.00											
	Required: Student Petition. Corequisite: Take the following CWE-281-03.															

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WET-241 AQUATIC MICROBIOLOGY, 4 CREDITS							OC XWET-C002- 350214 F 8-3:50 PM						
A lecture and lab course with topics in applied microbiology. Methods to detect coliform group in water and wastewater. Identification of filamentous bacteria in activated sludge, and identification of indicator protozoa in activated sludge. A bacteriological stream survey project is included.							M. LAFORCE \$0.00 \$0.00 \$0.00 \$0.00						
Prerequisites: BI-204							OC XWET-C002- 350215 F 8-3:50 PM						
oc	WET-241-01	350060	TBA				M. LAFORCE \$0.00 \$0.00 \$0.00 \$0.00						
	J. NURMI		MW	\$544.00	\$56.00	\$640.00	Meets: 12/4. Fee: \$125.00. Go to ccc-wet.eventbrite.com to sign up.						
						9-11:50 AM							
WET-242 HYDRAULICS FOR WATER & WASTEWATER, 3 CREDITS							XWET-C003 2-DAY TESTER RETRAIN/RENEWAL, 1.40 CEUS						
Introduction to closed conduit and open channel flow. Includes hydrostatics and dynamics, head-loss, pump characteristics, Bernoulli's and the energy equations, and basic characteristics of water.							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.						
Prerequisites: WET-122							OC XWET-C003- 353081 THF 8-3:50 PM						
oc	WET-242-01	350062	MW			12:30 -1:50 PM	M. LAFORCE \$0.00 \$0.00 \$0.00 \$0.00						
	M. LAFORCE			\$408.00	\$42.00	\$465.00	Meets: 9/10-9/11. Fee: \$250.00. Go to ccc-wet.eventbrite.com to sign up.						
WET-245 INSTRUMENTATION & CONTROL, 4 CREDITS							OC XWET-C003- 350216 THF 8-3:50 PM						
A lab course introducing methods used to monitor and control treatment processes in wastewater, water and high purity water facilities. Advanced water analysis to include typical monitoring of high purity water treatment. Fundamentals of control loops, control systems and data management.							M. LAFORCE \$0.00 \$0.00 \$0.00 \$0.00						
OC HYB	WET-245-01	350064	W			4-5:50 PM	Meets: 10/15-10/16. Fee: \$250.00. Go to ccc-wet.eventbrite.com to sign up.						
	G. CARR			\$544.00	\$56.00	\$640.00	OC XWET-C003- 350217 THF 8-3:50 PM						
WET-280 WATER & ENVIRONMENTAL PROJECTS II, 5 CREDITS							M. LAFORCE \$0.00 \$0.00 \$0.00 \$0.00						
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.							Meets: 11/12-11/13. Fee: \$250.00. Go to ccc-wet.eventbrite.com to sign up.						
Corequisites: CWE-281							XWET-C004 4-DAY CROSS CONNECTION SPECIALIST COURSE, 3.20 CEUS						
ONL	WET-280-01	350065					Designed to provide information to individuals involved in the protection of public water systems from contamination due to cross connections. This course should be of special interest to cross connection control specialists, plumbing inspectors, waterworks managers, and backflow device testers.						
	M. LAFORCE			\$680.00	\$70.00	\$795.00	OC XWET-C004- 350218 TWTHF 8-3:50 PM						
	Required: Student Petition. Corequisite: Take the following CWE-281-03.						J. NURMI \$0.00 \$0.00 \$0.00 \$0.00						
XWET-C001	1-DAY CROSS CONNECTION SPECIALIST UPDATE, 0.70 CEUS						Meets: 12/8-12/11 Fee: \$550.00. Go to ccc-wet.eventbrite.com to sign up. This is an in-person-only workshop.						
Update on code information or any changes in the program.													
oc	XWET-C001- 31	350213	F			8-3:50 PM							
	J. NURMI			\$0.00	\$0.00	\$0.00							
	Meets: 11/6. Fee: \$125.00. Go to ccc-wet.eventbrite.com to sign up.												
XWET-C002	1-DAY TESTER RENEWAL, 0.70 CEUS						XWET-C005 5-DAY BACKFLOW TESTER COURSE, 4.00 CEUS						
Update on OARs and hands on testing to recertify student for backflow assembly certification through the State of Oregon.													

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

Distance Education Notification:
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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)	Tuition	Fee	Time	Crs. Fee	Total
	Instructor								
	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	350219	MTWTHF				8-5:00 PM		
	M. LAFORCE	\$0.00	\$0.00	\$0.00	\$0.00				
	Meets: 12/7-12/11. Fee: \$675.00. Go to ccc-wet.eventbrite.com to sign up.								
OC	XWET-C005-52	350220	MTWTHF				8-5:00 PM		
	M. LAFORCE	\$0.00	\$0.00	\$0.00	\$0.00				
	Meets: 9/14-9/18. Fee: \$675.00. Go to ccc-wet.eventbrite.com to sign up.								

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	350067	TH				2-4:50 PM		
	D. PODKOWA	\$408.00	\$42.00	\$219.00	\$669.00				
OC	WLD-100-02	350073	T				6-8:50 PM		
	D. PODKOWA	\$408.00	\$42.00	\$219.00	\$669.00				

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 NCT	WLD-102-01	350074	F				6-9:50 PM		
	A. TOWN	\$272.00	\$28.00	\$146.00	\$446.00				
OC NCT	WLD-102-02	350081	S				9-12:50 PM		
	K. DRURY	\$272.00	\$28.00	\$146.00	\$446.00				
OC NCT	WLD-102-03	350083	S				2-5:50 PM		
	K. DRURY	\$272.00	\$28.00	\$146.00	\$446.00				

WLD-102ES INTRODUCCIÓN A LA SOLDADURA, 2 CREDITS

Diseñado para soldaderos principiantes 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 LCT ESPAÑOL	WLD-102ES-01	350086	S				6-9:50 PM		
	F. PAXTOR	\$272.00	\$28.00	\$146.00	\$446.00				

WLD-103 BLACKSMITHING & TRADITIONAL IRON WORKING, 2 CREDITS

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Other Coding Translations:
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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	Crs. Fee	Total
	Instructor								
OC LCT	WLD-103-01	350087	F				6-9:50 PM		
	M. TIZO	\$272.00	\$28.00	\$146.00	\$446.00				
OC LCT	WLD-103-02	350090	SU				10-1:50 PM		
	M. TIZO	\$272.00	\$28.00	\$146.00	\$446.00				

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. Required: Student Petition.

OC NCT	WLD-110-01	350092	MW				8-11:50 AM		
	B. MULLIGAN	\$544.00	\$56.00	\$432.00	\$1,032.00				
	J. PHELPS								
	Required: Student Petition.								
OC NCT	WLD-110-02	350095	MW				1-4:50 PM		
	B. MULLIGAN	\$544.00	\$56.00	\$432.00	\$1,032.00				
	R. THOMAS								
	Required: Student Petition.								
OC NCT	WLD-110-03	350100	MW				6-9:50 PM		
	B. MULLIGAN	\$544.00	\$56.00	\$432.00	\$1,032.00				
	D. PODKOWA								
	Required: Student Petition.								
OC NCT	WLD-110-04	350103	TTH				8-11:50 AM		
	B. MULLIGAN	\$544.00	\$56.00	\$432.00	\$1,032.00				
	J. PHELPS								
	Required: Student Petition.								
OC NCT	WLD-110-05	350107	TTH				6-9:50 PM		
	B. MULLIGAN	\$544.00	\$56.00	\$432.00	\$1,032.00				
	Required: Student Petition.								
OC NCT	WLD-110-06	350109	TTH				1-4:50 PM		
	B. MULLIGAN	\$544.00	\$56.00	\$432.00	\$1,032.00				
	Required: Student Petition.								
OC NCT	WLD-110-07	350114	TTH				12:01 -1:50 AM		
	MW						10-11:59 PM		
	K. DRURY	\$544.00	\$56.00	\$432.00	\$1,032.00				
	B. MULLIGAN								
	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 NCT	WLD-111-01	350115	MTWTH				6-9:50 PM		
	R. THOMAS	\$1,088.00	\$112.00	\$584.00	\$1,784.00				

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 NCT	WLD-111A-01	350118	MW				6-9:50 PM		
	R. THOMAS	\$544.00	\$56.00	\$292.00	\$892.00				

Course Listing

2026/FA

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	WLD-111A-02 350121 MTWTH		R. ABBOTT			\$544.00	\$56.00	7:30 -9:20 AM	\$292.00	\$892.00
OC NCT	WLD-111A-03 350125 MTWTH		R. ABBOTT			\$544.00	\$56.00	1:15 -3:05 PM	\$292.00	\$892.00
OC NCT	WLD-111A-04 350129 MTWTH		R. ABBOTT			\$544.00	\$56.00	3:30 -5:20 PM	\$292.00	\$892.00

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.

Prerequisites: WLD-111A

OC NCT	WLD-111B-01 350134 TTH		R. THOMAS			\$544.00	\$56.00	6-9:50 PM	\$292.00	\$892.00
OC NCT	WLD-111B-02 350135 MTWTH		R. ABBOTT			\$544.00	\$56.00	7:30 -9:20 AM	\$292.00	\$892.00
OC NCT	WLD-111B-03 350137 MTWTH		R. ABBOTT			\$544.00	\$56.00	1:15 -3:05 PM	\$292.00	\$892.00
OC NCT	WLD-111B-04 350139 MTWTH		R. ABBOTT			\$544.00	\$56.00	3:30 -5:20 PM	\$292.00	\$892.00

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 350141 MTWTH		D. BATES			\$1,088.00	\$112.00	8-11:50 AM	\$584.00	\$1,784.00
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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 350142 MW		D. BATES			\$544.00	\$56.00	8-11:50 AM	\$292.00	\$892.00
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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 350143 TTH		D. BATES			\$544.00	\$56.00	8-11:50 AM	\$292.00	\$892.00
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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.

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-115-02 350144 TWTHF		K. DRURY			\$1,088.00	\$112.00	12:01 -1:50 AM 10-11:59 PM	\$584.00	\$1,784.00

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-02 350145 TTH		K. DRURY			\$544.00	\$56.00	12:01 -1:50 AM 10-11:59 PM	\$292.00	\$892.00
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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-02 350146 TTH		K. DRURY			\$544.00	\$56.00	10-11:59 PM 12:01 -1:50 AM	\$292.00	\$892.00
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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 NCT	WLD-150-01 350147 MW		D. PODKOWA			\$544.00	\$56.00	6-9:50 PM	\$292.00	\$892.00
OC LCT	WLD-150-02 350148 MW		J. PHELPS			\$544.00	\$56.00	8-11:50 AM	\$292.00	\$892.00

WLD-200 WELDER'S PRINT READING II, 3 CREDITS

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 350149 T		D. PODKOWA			\$408.00	\$42.00	2-5:00 PM	\$219.00	\$669.00
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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

Campus Locations:
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VAR: Variable credit class

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

Course Listing

2026/FA

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	WLD-210-01	350151 MW			1-4:50 PM	
	R. THOMAS	\$544.00	\$56.00	\$292.00	\$892.00	
	Required: Student Petition.					

WLD-211 ADVANCED SHIELDED METAL 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 Shielded Metal Arc Welding (SMAW) process. Advanced welding theory and procedures will also be included.

Prerequisites: WLD-111; or WLD-111A and WLD-111B

OC NCT	WLD-211-01	350152 TTH			6-9:50 PM	
	B. MULLIGAN	\$544.00	\$56.00	\$292.00	\$892.00	

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 NCT	WLD-212-01	350153 MW			1-4:50 PM	
	R. THOMAS	\$544.00	\$56.00	\$292.00	\$892.00	
	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 NCT	WLD-213-01	350154 TTH			8-11:50 AM	
	J. PHELPS	\$544.00	\$56.00	\$292.00	\$892.00	

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 NCT	WLD-250-01	350155 TTH			1-4:50 PM	
	B. MULLIGAN	\$544.00	\$56.00	\$292.00	\$892.00	

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 NCT	WLD-251-01	350156 TTH			1-4:50 PM	
	B. MULLIGAN	\$544.00	\$56.00	\$292.00	\$892.00	

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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

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 NCT	WLD-252-01	350157 TTH			1-4:50 PM	
	B. MULLIGAN	\$544.00	\$56.00	\$292.00	\$892.00	

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 NCT	WLD-261-01	350158 M			8-11:50 AM	
	D. BATES	\$272.00	\$28.00	\$146.00	\$446.00V	
	Required: Student Petition.					
OC NCT	WLD-261-02	350159 M			1-4:50 PM	
	R. THOMAS	\$272.00	\$28.00	\$146.00	\$446.00V	
	Required: Student Petition.					
OC NCT	WLD-261-03	350160 M			6-9:50 PM	
	R. THOMAS	\$272.00	\$28.00	\$146.00	\$446.00V	
	Required: Student Petition.					
OC NCT	WLD-261-05	350162 T			8-11:50 AM	
	D. BATES	\$272.00	\$28.00	\$146.00	\$446.00V	
	Required: Student Petition.					
OC NCT	WLD-261-07	350164 T			6-9:50 PM	
	R. THOMAS	\$272.00	\$28.00	\$146.00	\$446.00V	
	Required: Student Petition.					
OC NCT	WLD-261-08	350165 T			10-11:59 PM	
	W				12:01 -1:50 AM	
	K. DRURY	\$272.00	\$28.00	\$146.00	\$446.00V	
	Required: Student Petition.					
OC NCT	WLD-261-09	350166 W			8-11:50 AM	
	D. BATES	\$272.00	\$28.00	\$146.00	\$446.00V	
	Required: Student Petition.					
OC NCT	WLD-261-10	350167 W			1-4:50 PM	
	R. THOMAS	\$272.00	\$28.00	\$146.00	\$446.00V	
	Required: Student Petition.					
OC NCT	WLD-261-11	350168 W			6-9:50 PM	
	R. THOMAS	\$272.00	\$28.00	\$146.00	\$446.00V	
	Required: Student Petition.					
OC NCT	WLD-261-13	350170 TH			8-11:50 AM	
	D. BATES	\$272.00	\$28.00	\$146.00	\$446.00V	
	Required: Student Petition.					
OC NCT	WLD-261-14	350171 TH			1-4:50 PM	
	B. MULLIGAN	\$272.00	\$28.00	\$146.00	\$446.00V	
	Required: Student Petition.					
OC NCT	WLD-261-15	350172 TH			6-9:50 PM	
	R. THOMAS	\$272.00	\$28.00	\$146.00	\$446.00V	
	Required: Student Petition.					
OC NCT	WLD-261-16	350173 TH			10-11:59 PM	
	F				12:01 -1:50 AM	
	K. DRURY	\$272.00	\$28.00	\$146.00	\$446.00V	
	Required: Student Petition.					
OC NCT	WLD-261-19	350176 F			6-9:50 PM	
	M. TIZO	\$272.00	\$28.00	\$146.00	\$446.00V	
	Required: Student Petition.					

Course Listing

2026/FA

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	WLD-261-20 350177 S K. DRURY Required: Student Petition.					\$272.00	\$28.00	9-12:50 PM	\$146.00	\$446.00V
OC NCT	WLD-261-21 350178 S K. DRURY Required: Student Petition.					\$272.00	\$28.00	2-5:50 PM	\$146.00	\$446.00V
OC NCT	WLD-261-23 350180 SU M. TIZO Required: Student Petition.					\$272.00	\$28.00	10-1:50 PM	\$146.00	\$446.00V

WLD-280 WELDING TECHNOLOGY/CWE, 1-6 CREDITS (VAR)

Cooperative work experience in the welding trades. Worksite to be determined prior to registering for this class. Skills learned from welding classes will be applied while working at a job site. Goals for this class will be established with the company supervisor, instructor, and student. May be repeated for up to 9 credits. Required: Student Petition.

Corequisites: CWE-281

OC NCT	WLD-280-01 350183 TBA Required: Student Petition. Corequisite: Take the following CWE-281-06.					\$816.00	\$84.00		\$45.00	\$945.00V
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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- 350221 TBA 01 B. MULLIGAN Required: Student Petition.					\$0.00	\$0.00		\$140.00	\$140.00
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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- 350222 TBA 01 B. MULLIGAN Required: Student Petition.					\$0.00	\$0.00		\$280.00	\$280.00
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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- 350223 TBA 01 B. MULLIGAN Required: Student Petition.					\$0.00	\$0.00		\$25.00	\$25.00
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Women's Studies

WS-101 INTRODUCTION TO WOMEN'S STUDIES, 4 CREDITS

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

Campus Locations:
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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:
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VAR: Variable credit class

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

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 349223 MW A. ELLIS One-time textbook purchase for ASL-101 & ASL-102.					\$544.00	\$56.00	10-11:50 AM	\$10.00	\$610.00
OC	ASL-101-02 349227 MW A. ELLIS One-time textbook purchase for ASL-101 & ASL-102.					\$544.00	\$56.00	1-2:50 PM	\$10.00	\$610.00
ONL	ASL-101-03 349229 A. ELLIS One-time textbook purchase for ASL-101 & ASL-102.					\$544.00	\$56.00		\$10.00	\$610.00

ASL-201 SECOND-YEAR AMERICAN SIGN LANGUAGE I, 4 CREDITS

Review and expansion of American Sign Language vocabulary and structure in order to perfect expressive skill. Emphasizes active communication in sign language.

Prerequisites: ASL-103 with a C or better

REM	ASL-201-01 349231 TTH A. ELLIS One-time textbook purchase for ASL-103 & ASL-201.					\$544.00	\$56.00	10-11:50 AM	\$10.00	\$610.00
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FR-101 FIRST-YEAR FRENCH I, 4 CREDITS

First 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.

OC NCT	FR-101-01 349531 TTH E. HERNANDEZ					\$544.00	\$56.00	10-11:50 AM	\$10.00	\$610.00
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GER-101 FIRST-YEAR GERMAN I, 4 CREDITS

First 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.

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

OC NCT	GER-101-01 349631 MW T. NIKOLOPOULOS					\$544.00	\$56.00	1-2:50 PM	\$10.00	\$610.00
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SPN-101Z FIRST-YEAR SPANISH I, 4 CREDITS

Course Listing

2026/FA

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	Total	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Total
An introduction to the language, cultural practices, and perspectives of Spanish-speaking communities both locally and globally. Cultivates listening, speaking, reading, writing, and intercultural competence through conversation, cultural exploration, and other activities. Designed for beginners as the first of three in the sequence of First-year Spanish courses (SPN-101Z, SPN-102Z, and SPN-103Z). If you have experience speaking Spanish at home, in your community, or abroad, please consult with the instructor to make sure this class is the best for your level. Recommended Prerequisites: WRD-098 or placement in WR-121Z							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 NCT	SPN-101Z-01	349981	TTH			1-2:50 PM	OC	WR-121Z-01	350002	MW			10-11:50 AM
	A. METHADZOVIC			\$544.00	\$56.00	\$10.00		T. WALKER			\$544.00	\$56.00	\$19.00
ONL NCT	SPN-101Z-02	349983					OC NCT	WR-121Z-02	350003	MW			1-2:50 PM
	E. HERNANDEZ			\$544.00	\$56.00	\$10.00		A. ENCINAS			\$544.00	\$56.00	\$19.00
ONL NCT	SPN-101Z-03	349984					OC LCT	WR-121Z-03	350005	MW			3-4:50 PM
	A. METHADZOVIC			\$544.00	\$56.00	\$10.00		W. DAWKINS			\$544.00	\$56.00	\$19.00
ONL NCT	SPN-101Z-04	353095					OC	WR-121Z-04	350006	TTH			10-11:50 AM
	A. METHADZOVIC			\$544.00	\$56.00	\$10.00		T. WALKER			\$544.00	\$56.00	\$19.00
							OC NCT	WR-121Z-05	350007	TTH			10-11:50 AM
								J. BEREZHNOY			\$544.00	\$56.00	\$19.00
							OC NCT	WR-121Z-06	350008	TTH			1-2:50 PM
								A. ENCINAS			\$544.00	\$56.00	\$19.00
							OC	WR-121Z-07	350010	TTH			3-4:50 PM
								TBA			\$544.00	\$56.00	\$19.00
							OC HYB NCT	WR-121Z-08	350012	M			10-11:50 AM
								C. BURNELL			\$544.00	\$56.00	\$19.00
							OC HYB NCT	WR-121Z-09	350013	M			1-2:50 PM
								C. BURNELL			\$544.00	\$56.00	\$19.00
							OC HYB LCT	WR-121Z-10	350014	M			3-4:50 PM
								S. NIZIOLEK			\$544.00	\$56.00	\$19.00
							OC HYB LCT	WR-121Z-11	350015	T			10-11:50 AM
								S. WARREN			\$544.00	\$56.00	\$19.00
							OC HYB LCT	WR-121Z-12	350016	T			1-2:50 PM
								S. WARREN			\$544.00	\$56.00	\$19.00
							OC HYB NCT	WR-121Z-13	350017	T			3-4:50 PM
								J. BEREZHNOY			\$544.00	\$56.00	\$19.00
							OC HYB LCT	WR-121Z-14	350019	T			1-2:50 PM
								S. NIZIOLEK			\$544.00	\$56.00	\$19.00
							HAR LCT	WR-121Z-15	350020	MW			1-2:50 PM
								H. DIERDORFF			\$544.00	\$56.00	\$19.00
							HAR HYB	WR-121Z-16	350021	M			6-7:50 PM
								M. SCHUMACHER			\$544.00	\$56.00	\$19.00
							ONL LCT	WR-121Z-17	350022				
								M. WARREN			\$544.00	\$56.00	\$19.00
							ONL LCT	WR-121Z-18	350023				
								M. WARREN			\$544.00	\$56.00	\$19.00
							ONL NCT	WR-121Z-19	350025				
								T. DODGE			\$544.00	\$56.00	\$19.00
							ONL NCT	WR-121Z-20	350026				
								T. DODGE			\$544.00	\$56.00	\$19.00
							ONL NCT	WR-121Z-21	350027				
								T. DODGE			\$544.00	\$56.00	\$19.00
							ONL NCT	WR-121Z-22	350028				
								J. MCALPINE			\$544.00	\$56.00	\$19.00
							ONL NCT	WR-121Z-23	350029				
								J. MCALPINE			\$544.00	\$56.00	\$19.00
							ONL	WR-121Z-24	350031				
								A. DEFREESE			\$544.00	\$56.00	\$19.00
							ONL NCT	WR-121Z-25	350032				
								B. EHLERS			\$544.00	\$56.00	\$19.00
							OC	WR-121Z-26	353504	MW			1-2:50 PM
								T. WALKER			\$544.00	\$56.00	\$19.00
							ONL	WR-121Z-27	350035				
								M. SCHUMACHER			\$544.00	\$56.00	\$19.00
							OC HYB LCT	WR-121Z-28	350037	M			6-7:50 PM
								S. WARREN			\$544.00	\$56.00	\$19.00

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			
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Course Listing

2026/FA

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	Total	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Total
oc	WR-121Z-29	350038 MW	8-9:50 AM				Recommended Prerequisites: WRD-098 or placement in WR-121Z						
	TBA			\$544.00	\$56.00	\$19.00	oc	WR-140-01	350061 MW	1-2:50 PM			
						\$619.00		TBA			\$544.00	\$56.00	\$19.00
													\$619.00
WR-122Z COMPOSITION II, 4 CREDITS							WR-227Z TECHNICAL WRITING, 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.							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							Prerequisites: WR-121Z with a C or better						
oc	WR-122Z-01	350040 MW	10-11:50 AM				oc NCT	WR-227Z-01	350063 TTH	10-11:50 AM			
	J. DAVIS			\$544.00	\$56.00	\$19.00		R. DAVIS			\$544.00	\$56.00	\$19.00
oc LCT	WR-122Z-02	350042 TTH	10-11:50 AM				oc HYB	WR-227Z-02	350066 T	3-4:50 PM			
	R. MURPHY			\$544.00	\$56.00	\$19.00	NCT				\$544.00	\$56.00	\$19.00
oc LCT	WR-122Z-03	350043 TTH	1-2:50 PM				ONL NCT	WR-227Z-03	350068		\$544.00	\$56.00	\$19.00
	R. MURPHY			\$544.00	\$56.00	\$19.00		C. ZIMMERLY-BECK			\$544.00	\$56.00	\$19.00
oc HYB	WR-122Z-04	350045 M	1-2:50 PM				ONL NCT	WR-227Z-04	350069		\$544.00	\$56.00	\$19.00
NCT								R. DAVIS			\$544.00	\$56.00	\$19.00
oc HYB	WR-122Z-05	350047 T	1-2:50 PM				ONL NCT	WR-227Z-05	350070		\$544.00	\$56.00	\$19.00
	C. BURNELL			\$544.00	\$56.00	\$19.00		R. DAVIS			\$544.00	\$56.00	\$19.00
ONL NCT	WR-122Z-06	350049					ONL NCT	WR-227Z-06	350071		\$544.00	\$56.00	\$19.00
	L. ORMANDY			\$544.00	\$56.00	\$19.00		J. MCALPINE			\$544.00	\$56.00	\$19.00
ONL NCT	WR-122Z-07	350051					HAR	WR-227Z-15	353179 MW	1-2:50 PM			
	J. PETERMAN			\$544.00	\$56.00	\$19.00		TBA			\$544.00	\$56.00	\$19.00
ONL LCT	WR-122Z-08	350052											
	R. MURPHY			\$544.00	\$56.00	\$19.00							
ONL	WR-122Z-09	350053											
	M. SCHUMACHER			\$544.00	\$56.00	\$19.00							
WR-124ES ESCRITURA DE ENSAYOS DE NIVEL UNIVERSITARIO EN ESPAÑOL, 4 CREDITS							WR-241 FICTION WRITING I, 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.							Introduction to the theory, art and creative practice of fiction writing, with specific emphasis on short prose forms.						
Required: Estudiantes deben leer y escribir a nivel universitario, en Español, antes de comenzar el curso							Prerequisites: WRD-098 or placement in WR-121Z						
Prerequisites: WRD-098ES o tener un nivel de evaluación de WR-124ES							oc NCT	WR-241-01	350072 MW	3-4:50 PM			
Recommended Prerequisite or Corequisite: FYE-101ES								N. ROSEVEAR			\$544.00	\$56.00	\$19.00
REM	WR-124ES-01	353203 TH	6-7:50 PM										\$619.00
ESPAÑOL													
	A. ENCINAS			\$544.00	\$56.00	\$19.00							
WR-127 SCHOLARSHIP ESSAY WRITING, 1 CREDIT							WR-246 PUBLISHING LITERATURE: READING AND REVISING FOR PUBLICATION, 4 CREDITS						
Introduces scholarship application resources and search strategies to help students find scholarships that are 'right for me'. Focuses on learning to 'tell my story' by drafting, revising, and editing essays for scholarship applications.							For students with an interest in creative writing and/or literary journal publication who wish to develop publishing skills. Students work collaboratively to acquire and revise manuscripts for publication in an award-winning literary journal featuring poetry and short fiction from local and international authors. May be repeated for up to 8 credits.						
ONL	WR-127-01	350058					Prerequisites: WRD-098 or placement in WR-121Z						
	TBA			\$0.00	\$0.00	\$19.00	oc LCT	WR-246-01	350075 TTH	10-11:50 AM			
	Meets: 9/28-10/30.							M. WARREN			\$544.00	\$56.00	\$40.00
													\$640.00
WR-140 INTRODUCTION TO WRITING CREATIVELY, 4 CREDITS							WR-270 CREATIVE NONFICTION WRITING II: FOOD WRITING, 4 CREDITS						
Guides students through the discussion and practice of writing creatively in many genres and formats, primarily poetry, fiction, drama, and creative non-fiction in a workshop format. May also include screenwriting, digital story telling, film, and performance genres.							Learn to write uniquely and powerfully about food, from recipes to reviews to personal narrative. Bring the pen to the plate and vice versa, enriching your appreciation for sustenance and sentences at the same time.						
Recommended Prerequisites: WRD-098 or placement in WR-121Z							ONL NCT	WR-270-01	350076		\$544.00	\$56.00	\$19.00
								R. DAVIS					\$619.00
WRD-090 INTRODUCTORY COLLEGE READING & WRITING 1, 4 CREDITS													
Campus Locations:							Distance Education Notification:						
HAR: Harmony Community Campus							ONL: Online Only						
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OFF: Other Off-Campus Location													
							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/FA

Course No Course Title, Credits							Course No Course Title, Credits								
Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time				Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time					
Instructor	Tuition	Fee	Crs. Fee	Total				Instructor	Tuition	Fee	Crs. Fee	Total			
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.							A lecture and lab course offering cellular and molecular basis of animal life including genetics, embryology, evolution, systematics, and protozoan diversity.								
Prerequisites: Placement in WRD-090							Prerequisites: MTH-095 or placement in MTH-111Z								
Corequisites: Z-201L							Corequisites: Z-201L								
Recommended Prerequisites: WRD-098 or placement in WR-121Z							Recommended Prerequisites: WRD-098 or placement in WR-121Z								
OC LCT	WRD-090-01	350077 MW	10-11:50 AM				oc	Z-201-01	350225 MW	10:30 -11:50 AM					
	W. DAWKINS	\$544.00	\$56.00	\$19.00	\$619.00		J. BOWN	\$544.00	\$56.00	\$55.00	\$655.00				
OC NCT	WRD-090-02	350079 TTH	1-2:50 PM				Z-201L GENERAL ZOOLOGY LAB, 0 CREDIT								
	T. DONNELLY	\$544.00	\$56.00	\$19.00	\$619.00	Lab course for Z-201									
ONL LCT	WRD-090-03	350082					Corequisites: Z-201								
	A. WARREN	\$544.00	\$56.00	\$19.00	\$619.00										
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 NCT	WRD-098-01	350085 MW	1-2:50 PM												
	J. DAVIS	\$544.00	\$56.00	\$19.00	\$619.00										
OC NCT	WRD-098-02	350089 TTH	10-11:50 AM												
	T. DONNELLY	\$544.00	\$56.00	\$19.00	\$619.00										
ONL NCT	WRD-098-03	350093													
	M. WARREN	\$544.00	\$56.00	\$19.00	\$619.00										
ONL NCT	WRD-098-04	350096													
	M. WARREN	\$544.00	\$56.00	\$19.00	\$619.00										
ONL LCT	WRD-098-05	350098													
	A. WARREN	\$544.00	\$56.00	\$19.00	\$619.00										
HAR LCT	WRD-098-15	350106 MW	10-11:50 AM												
	H. DIERDORFF	\$544.00	\$56.00	\$19.00	\$619.00										
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 NCT	WRD-098ES-01	350110 W	6-7:50 PM												
ESPAÑOL															
	A. ENCINAS	\$544.00	\$56.00	\$19.00	\$619.00										
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	XWR-0001-01	350132 W	12-1:50 PM												
NCT	P. LICHEN	\$0.00	\$0.00	\$0.00	\$0.00										
This workshop will be held via Zoom.															
Zoology															
Z-201 GENERAL ZOOLOGY, 4 CREDITS															
Campus Locations:							Distance Education Notification:								
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WILS: Wilsonville Training Center							HYB: In-person plus online work								
OFF: Other Off-Campus Location							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								

COMMUNITY EDUCATION

Please register directly through the Community Education partner hosting the class you would like to attend.

Fall classes in your community

This fall, Community Education partners across Clackamas County are offering a variety of learning opportunities. From fitness classes like Tai Chi at the Milwaukie Center, to watercolor and yoga at the Pioneer Community Center in Oregon City, there is something for everyone.

On CCC campuses, Community Education will once again offer the popular Basic Computer Skills and Internet Basics courses in both English and Spanish. These classes teach the fundamentals of computer and internet use. They are great for beginners or those looking to build confidence in what they already know. Taught in a computer lab, students gain hands-on experience in navigating devices and the internet. Small class sizes and supportive instruction create a learning environment that supports personalized learning in a way that is comfortable for new technology users. These low-cost \$35 classes are taught at the Harmony campus.

■ Basic Computer Skills, Tuesdays, 12:30-1:30 p.m.

■ Internet Basics, Tuesdays, 1:45-2:45 p.m.

■ Habilidades de informática básicas, Sábados 9-10 a.m.

■ Conceptos básicos de Internet, Sábados, 10:30-11:30 a.m.

For more information or to register, visit: www.clackamas.edu/basic-computer.

GLADSTONE

Gladstone Community School
503-650-2570
www.clackamas.edu/gladstone

CANBY

Bridging Cultures | 503-592-3781
www.bridgingculturescanby.org

WILSONVILLE

West Linn/Wilsonville Family Empowerment Center
503-673-7690
www.wlww.k12.or.us/domain/3726

Wilsonville Parks and Recreation
503-783-PLAY
www.wilsonvilleparksandrec.com/parksrec

WEST LINN

West Linn Parks and Recreation
503-557-4700
westlinnoregon.gov/parksrec

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
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 | team-oregon.org



Clackamas Community College