



Schedule



Fall term classes begin September 29 • 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 2025	WINTER 2026	SPRING TERM 2026
Financial aid: All required CCC financial aid documentation due to ensure funding for term	June 23	Sept. 29	Jan. 5
Registration begins	May 19	Nov. 17	Feb. 23
Classes begin	Sept. 29	Jan. 5	March 30
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. 12	Jan. 18	April 12
Last day to drop classes and receive a "W" automatically	Nov. 21	Feb. 27	May 22
Last day to submit petition for graduation	Nov. 7	Feb. 13	May 8
Last day to change grading option	Dec. 5	March 13	June 5
Account balance due: \$100 non-payment fee applied if not paid	Nov. 7	Feb. 13	May 8
Final week	Dec. 8-13	March 16-21	June 8-13
Last day of term	Dec. 13	March 21	June 13
Commencement: GED & Adult High School Diploma / College Certificate and Degree	Friday evening, June 12, 2026		

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

HOLIDAYS AND CAMPUS CLOSURES
FALL TERM: Nov. 11 Veterans Day, Nov. 27-28 Thanksgiving, Dec. 24-25 Winter Holiday
WINTER TERM: Jan. 1 New Years Day, Jan. 19 MLK Jr. Day, Feb. 16 Presidents Day
SPRING TERM: May 25 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 2025

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-231	HUMAN ANATOMY & PHYSIOLOGY I	4 CREDITS
BI-231L	HUMAN ANATOMY & PHYSIOLOGY I LAB	0 CREDIT

Chemistry

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

Communication Studies

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

Criminal Justice

CJA-101	CRIMINOLOGY	4 CREDITS
CJA-110	INTRODUCTION TO LAW ENFORCEMENT	3 CREDITS
CJA-122	CRIMINAL LAW	4 CREDITS
CJA-206	TRAUMA INFORMED PRACTICES	3 CREDITS
CJA-210	CRIMINAL INVESTIGATION I	3 CREDITS
CJA-214	INTIMATE PARTNER VIOLENCE	3 CREDITS
CJA-223	CRIMINAL JUSTICE ETHICS	3 CREDITS
CJA-252	INTRODUCTION TO RESTORATIVE JUSTICE	3 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-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-046	EDITING FOR BETTER WRITING	0 CREDIT
ESOL-050	ADVANCED GRAMMAR A	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
GRN-280 GERONTOLOGY/CWE 2-6 CREDITS

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

Mathematics

MTH-020ES FUNDAMENTOS DE ARITMÉTICA II 4 CREDITS
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 SMALL BUSINESS MANAGEMENT I GROWTH WHEEL 0 CREDIT
SBM-024 EXIT SMART: RETIRING WITH SELLING & SUCCESSION STRATEGIES 0 CREDIT
SBM-028 CONTRACTOR ESSENTIALS MANAGEMENT SBM 1 0 CREDIT
SBM-029 NEXT LEVEL CONTRACTING: ADVANCED BUSINESS STRATEGIES FOR CONTRACTORS SBM II 0 CREDIT
SBM-031 SCOREBOARDS IN BUSINESS 0 CREDIT
XSBM-0003 GOING INTO BUSINESS 0 CREDIT
XSBM-0010 PREPARING FOR THE CCB EXAM 0 CREDIT
XSBM-0011 QUICKBOOKS PRO: PART I 0 CREDIT
XSBM-0012 QUICKBOOKS PRO: PART II 0 CREDIT
XSBM-0024 CONSTRUCTION BUSINESS FUNDAMENTALS: ACCURATE ESTIMATING & FINANCIAL RECORDS 0 CREDIT

Writing

WR-121Z COMPOSITION I 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 2025

Adult Basic Education (ABE)

ABE-012 ADULT BASIC EDUCATION, 0 CREDIT

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

OC NCT	ABE-012-07	341112 MTWTH		10-11:50 AM		
	D. GREEN	\$0.00	\$0.00	\$55.00	\$55.00	

Required: Student Petition.

Anthropology

ANT-101 BIOLOGICAL ANTHROPOLOGY, 4 CREDITS

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

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

OC NCT	ANT-101-01	341113 TTH		1-2:50 PM		
	K. BACA	\$520.00	\$52.00	\$0.00	\$572.00	

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	341114 TTH		10-11:50 AM		
	K. BACA	\$520.00	\$52.00	\$0.00	\$572.00	
ONL NCT	ANT-102-02	341115				
	K. BACA	\$520.00	\$52.00	\$0.00	\$572.00	

ANT-103 CULTURAL ANTHROPOLOGY, 4 CREDITS

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

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

ONL NCT	ANT-103-01	341116				
	K. BACA	\$520.00	\$52.00	\$0.00	\$572.00	

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

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

Corequisites: CWE-281

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

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VAR: Variable credit class

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

OC	ANT-280-01	341117				
	K. BACA	\$780.00	\$78.00	\$45.00	\$903.00V	

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	341239				
	C. SIEGFRIED	\$390.00	\$39.00	\$6.00	\$435.00	

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

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

OC NCT	ART-115-01	341242 MW		1-3:50 PM		
	C. SIEGFRIED	\$520.00	\$52.00	\$80.00	\$652.00	
OC NCT	ART-115-02	341248 TTH		1-3:50 PM		
	R. KALMAN	\$520.00	\$52.00	\$80.00	\$652.00	

ART-119 TIME-BASED ART, 4 CREDITS

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

ONL NCT	ART-119-01	341253				
	K. SIMMONS	\$520.00	\$52.00	\$80.00	\$652.00	

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	341256				
	A. SCHROER	\$520.00	\$52.00	\$80.00	\$652.00	
	Required: Pick up supplies on campus 10/1, 10:00-12:00pm.					
OC NCT	ART-131-02	341262 MW		9-11:50 AM		
	R. KALMAN	\$520.00	\$52.00	\$80.00	\$652.00	
OC NCT	ART-131-03	341264 MW		1-3:50 PM		
	R. KALMAN	\$520.00	\$52.00	\$80.00	\$652.00	
ONL NCT	ART-131-04	341265				
	A. SCHROER	\$520.00	\$52.00	\$80.00	\$652.00	

Required: Pick up supplies on campus 10/1, 10:00-12:00pm.

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)

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	ART-161-01 341266 TTH C. GIFFEN					\$520.00	\$52.00	1-3:50 PM	\$150.00	\$722.00
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 341268 TTH C. GIFFEN					\$520.00	\$52.00	1-3:50 PM	\$150.00	\$722.00
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 340733 J. SIMONE					\$520.00	\$52.00		\$21.00	\$593.00
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 341270 TTH N. BRODNICKI					\$520.00	\$52.00	9-11:50 AM	\$79.00	\$651.00
OC NCT	ART-250-02 341277 TTH N. BRODNICKI					\$520.00	\$52.00	1-3:50 PM	\$79.00	\$651.00
OC NCT	ART-250-03 341278 TTH N. WARRENS					\$520.00	\$52.00	6-8:50 PM	\$79.00	\$651.00
ART-253 CERAMICS/INTERMEDIATE, 4 CREDITS In this course, students further develop ceramic skills and clay experience to foster artistic growth. Students explore and develop different methods of working with clay, including pinching, coiling, slab construction, and throwing on the wheel and refine glazing and firing methods. Students research the history of ceramics and its connection to culture and society. Prerequisites: ART-250, ART-251, or ART-252, or Student Petition										
OC NCT	ART-253-01 341281 TTH N. BRODNICKI					\$520.00	\$52.00	9-11:50 AM	\$79.00	\$651.00
OC NCT	ART-253-02 341284 TTH N. BRODNICKI					\$520.00	\$52.00	1-3:50 PM	\$79.00	\$651.00
OC NCT	ART-253-03 341286 TTH N. WARRENS					\$520.00	\$52.00	6-8:50 PM	\$79.00	\$651.00
ART-257 METALSMITHING/JEWELRY, 4 CREDITS This course examines basic techniques in metalsmithing and jewelry-making. Students will learn basic techniques and processes of metalsmithing such as sawing, cold connection, soldering, metal inlay, fabrication, forming, surface treatments and casting. The focus of this class will be placed on creating forms for body adornment. Critiques, discussions and presentations are included in this course.										
OC NCT	ART-257-01 341289 TTH J. IJIMA					\$520.00	\$52.00	9-11:50 AM	\$80.00	\$652.00
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 341293 TTH J. IJIMA					\$520.00	\$52.00	9-11:50 AM	\$20.00	\$592.00
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 341294 TTH C. GIFFEN					\$520.00	\$52.00	1-3:50 PM	\$80.00	\$652.00
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 341295 TTH D. OLSEN					\$520.00	\$52.00	9-11:50 AM	\$80.00	\$652.00
ONL NCT	ART-262-02 341300 S. ELIOT					\$520.00	\$52.00		\$80.00	\$652.00
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 341302 F D. ANDERSEN					\$520.00	\$52.00	9-2:50 PM	\$110.00	\$682.00
ART-284 PAINTING: STILL LIFE/INTERMEDIATE, 4 CREDITS 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 341306 F D. ANDERSEN					\$520.00	\$52.00	9-2:50 PM	\$110.00	\$682.00
ART-291 SCULPTURE, 4 CREDITS										

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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 K. SIMMONS	341307 MW		\$520.00	\$52.00	1-3:50 PM	\$652.00	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 M. GRIFFITH M. HOUSE	341161 MT		\$780.00	\$78.00	7-12:20 PM	\$1,195.00	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 M. GRIFFITH M. HOUSE	341164 MT		\$780.00	\$78.00	7-12:20 PM	\$1,195.00	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 M. GRIFFITH M. HOUSE	341165 MT		\$780.00	\$78.00	7-12:20 PM	\$1,195.00	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 C. DAHLSTRUD- RIVERA J. PHELPS	341166 F		\$260.00	\$26.00	8-12:20 PM	\$456.00	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 M. HOUSE	341169		\$780.00	\$78.00	\$45.00	\$903.00V	ABR-125	COLLISION REPAIR/REFINISHING I, 6 CREDITS								
Required: Student Petition. Corequisite: Take the following CWE-281-06.																	
OC NCT	AB-133-01 M. GRIFFITH M. HOUSE	341157 MT		\$780.00	\$78.00	7-12:20 PM	\$1,195.00	OC NCT	ABR-125-01 M. GRIFFITH M. HOUSE	341172 WTH		\$780.00	\$78.00	7-12:20 PM	\$1,195.00		
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 A. YAGER-ROUNDS	341159 M		\$260.00	\$26.00	1:30 -3:50 PM	\$406.00	OC NCT	ABR-127	COLLISION REPAIR/REFINISHING II, 6 CREDITS							

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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	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				
Application of solvent and waterborne finishes, including spot repairs, color matching, complete refinishing, and problem solving. Introduction to computerized color information retrieval and mixing.								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.							
Prerequisites: ABR-125								Prerequisites: MTH-020 or placement in MTH-050, and placement in WRD-090							
OC NCT	ABR-127-01	341178	WTH				7-12:20 PM				oc	AM-129-01	341210	MTWTH	1-5:50 PM
	M. GRIFFITH				\$780.00	\$78.00	\$337.00	\$1,195.00				J. LEUCK			\$650.00 \$65.00 \$211.00 \$926.00
	M. HOUSE											Meets: 10/6-11/6.			
ABR-129 COLLISION REPAIR/REFINISHING III, 6 CREDITS								Prerequisites: ABR-127							
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.								Recommended Prerequisites: AM-101 with a C or better, or Student Petition							
OC NCT	ABR-129-01	341179	WTH				7-12:20 PM				oc	AM-129-02	341215	MTWTH	1-5:50 PM
	M. GRIFFITH				\$780.00	\$78.00	\$337.00	\$1,195.00				J. LEUCK			\$650.00 \$65.00 \$211.00 \$926.00
	M. HOUSE											Meets: 11/10-12/11.			
ABR-225 PRODUCTION SHOP TECHNIQUES, 6 CREDITS								AM-130 BRAKE SYSTEMS, 5 CREDITS							
Designed for students who wish to gain additional hands-on experience in refinishing, using the most up-to-date methods and materials.								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.							
Prerequisites: ABR-129								Prerequisites: MTH-020 or placement in MTH-050, and placement in WRD-090							
OC NCT	ABR-225-01	341182	WTH				7-12:20 PM				oc	AM-130-01	341216	MTWTH	1-5:50 PM
	M. GRIFFITH				\$780.00	\$78.00	\$337.00	\$1,195.00				W. VAN RIPER			\$650.00 \$65.00 \$211.00 \$926.00
	M. HOUSE											Meets: 10/6-11/6.			
ABR-227 RESTORATION PRACTICES, 6 CREDITS								Recommended Prerequisites: AM-101 with a C or better, or Student Petition							
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.								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: ABR-225								Prerequisites: AM-101							
OC NCT	ABR-227-01	341184	WTH				7-12:20 PM				oc	AM-201-01	341218	F	7-12:20 PM
	M. GRIFFITH				\$780.00	\$78.00	\$337.00	\$1,195.00				N. ROBERTS			\$390.00 \$39.00 \$5.00 \$434.00
	M. HOUSE											Meets: 10/3-11/7.			

Automotive Service Technology

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

AM-101 INTRO TO AUTOMOTIVE SERVICE TECHNOLOGY, 2 CREDITS

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

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

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

oc	AM-101-01	341191	MTWTHF				1-5:50 PM	
	N. ROBERTS				\$260.00	\$26.00	\$22.00	\$308.00
	Meets: 9/29-10/3.							

AM-129 ELECTRICAL SYSTEMS I, 5 CREDITS

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Course Listing

2025/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-229-01 341225 MTWTH N. ROBERTS Meets: 9/29-10/30.					\$650.00	\$65.00	7-11:50 AM	\$211.00	\$926.00
OC	AM-229-02 341226 MTWTH N. ROBERTS Meets: 11/3-12/4.					\$650.00	\$65.00	7-11:50 AM	\$211.00	\$926.00
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 341227 N. ROBERTS Required: Student Petition. Corequisite: Take the following CWE-281-06.					\$780.00	\$78.00		\$45.00	\$903.00V
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 341310 MW E. DEBEY Corequisite: Take 1 of the following BI-101L-01, BI-101L-02, BI-101L-03.					\$520.00	\$52.00	1-2:20 PM	\$55.00	\$627.00
OC	BI-101-02 341311 TTH E. DEBEY Corequisite: Take 1 of the following BI-101L-01, BI-101L-02, BI-101L-03.					\$520.00	\$52.00	9-10:20 AM	\$55.00	\$627.00
ONL	BI-101-40 341315 E. DEBEY Corequisite: Take the following BI-101L-40.					\$520.00	\$52.00		\$55.00	\$627.00
ONL	BI-101-41 341316 T. BLACKWELL Corequisite: Take the following BI-101L-41.					\$520.00	\$52.00		\$55.00	\$627.00
BI-101L	GENERAL BIOLOGY; CELLULAR BIOLOGY LAB, 0 CREDIT Lab course for BI-101 Corequisites: BI-101									
OC	BI-101L-01 341318 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 341319 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
OC	BI-101L-03 341320 TTH E. DEBEY Corequisite: Take 1 of the following BI-101-01, BI-101-02.					\$0.00	\$0.00	1-2:20 PM	\$0.00	\$0.00
ONL LCT	BI-101L-40 341323 E. DEBEY Corequisite: Take the following BI-101-40.					\$0.00	\$0.00		\$0.00	\$0.00
ONL	BI-101L-41 341325 T. BLACKWELL Corequisite: Take the following BI-101-41.					\$0.00	\$0.00		\$0.00	\$0.00
BI-102	GENERAL BIOLOGY; ANIMAL SYSTEMS, 4 CREDITS An inquiry-based laboratory course focusing on human and animal body systems; including teratogens, Hox genes and hormone mimics in embryonic development. Activities emphasize comparisons across animal phyla to better understand the diversity of life. The class uses student centered activities in a collaborative learning environment to enhance appreciation of the animal kingdom. Corequisites: BI-102L Recommended Prerequisites: MTH-060 or MTH-098 or placement in MTH-065; and WRD-098 or placement in WR-121Z									
ONL	BI-102-40 341326 S. SOLL					\$520.00	\$52.00		\$55.00	\$627.00
BI-102L	GENERAL BIOLOGY; ANIMAL SYSTEMS LAB, 0 CREDIT Lab course for BI-102 Corequisites: BI-102									
ONL	BI-102L-40 341328 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 341330 K. OSTLUND					\$520.00	\$52.00		\$55.00	\$627.00
BI-103L	GENERAL BIOLOGY; PLANTS & THE ECOSYSTEM LAB, 0 CREDIT Lab course for BI-103 Corequisites: BI-103									
ONL	BI-103L-40 341331 K. OSTLUND					\$0.00	\$0.00		\$0.00	\$0.00
BI-112	GENERAL BIOLOGY FOR HEALTH SCIENCES, 4 CREDITS A one-term preparatory course that introduces the Health Occupations student to the scientific method, molecular and cellular biology, principles of inheritance, homeostasis, natural selection, tissues, and organ systems. Topics and skills covered prepare students to enter BI-231 and BI-234. Corequisites: BI-112L Recommended Corequisite: CH-112 Recommended Prerequisites: MTH-060 or MTH-098 or placement in MTH-065, and WRD-098 or placement in WR-121Z									
OC	BI-112-01 341332 TTH J. BOWN Corequisite: Take 1 of the following BI-112L-01, BI-112L-02.					\$520.00	\$52.00	11-12:20 PM	\$55.00	\$627.00
HAR	BI-112-15 341335 MW P. JONES Corequisite: Take the following BI-112L-15.					\$520.00	\$52.00	9-10:20 AM	\$55.00	\$627.00
ONL	BI-112-20 341336 S. KELSEY Corequisite: Take the following BI-112L-20.					\$520.00	\$52.00		\$55.00	\$627.00

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2025/FA

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ONL	BI-112-40 341337 M. ANDURI- FLYNN \$520.00 \$52.00 \$55.00 \$627.00 Corequisite: Take the following 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 341339 T M. PLUMMER \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take the following BI-112-01.								
OC	BI-112L-02 341340 TH J. BOWN \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take the following BI-112-01.								
HAR	BI-112L-15 341342 MW P. JONES \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take the following BI-112-15.								
OC	BI-112L-20 341344 M K. OSTLUND \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take the following BI-112-20.								
ONL	BI-112L-40 341347 M. ANDURI- FLYNN \$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 341348 MW P. JONES \$520.00 \$52.00 \$55.00 \$627.00 This class 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 341349 MW 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 341351 M J. BOWN \$390.00 \$39.00 \$20.00 \$449.00								
BI-165CL	NATURAL HISTORY OF THE OREGON COAST WITH LAB, 4 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 and birds, estuaries, tide pools, sand dunes and coastal forests. Lab included with field trips and lab activities.								
OC	BI-165CL-20 341352 M J. BOWN \$520.00 \$52.00 \$60.00 \$632.00 Field trips to the Oregon coast required. Dates to be determined.								
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 347128 MW J. BOWN \$520.00 \$52.00 \$55.00 \$627.00								
BI-215L	GENERAL ZOOLOGY LAB, 0 CREDIT Lab course for BI-215 Corequisites: BI-215								
OC	BI-215L-01 347129 W 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 341355 TH T. BLACKWELL \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take 1 of the following BI-221Z-01, BI-221Z-02.								
OC	BI-221LZ-02 341357 TH T. BLACKWELL \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take 1 of the following BI-221Z-01, BI-221Z-02.								
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-104, 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 341353 MW T. BLACKWELL \$650.00 \$65.00 \$55.00 \$770.00 Corequisite: Take 1 of the following BI-221LZ-01, BI-221LZ-02.								
ONL	BI-221Z-02 341354 T. BLACKWELL \$650.00 \$65.00 \$55.00 \$770.00 This class has an in-person lab requirement. Corequisite: Take 1 of the following BI-221LZ-01, BI-221LZ-02.								
BI-231	HUMAN ANATOMY & PHYSIOLOGY I, 4 CREDITS A lab course designed for students entering the physical education or medically-related fields. Includes body organization, terminology, tissues and systemic study of the integumentary, skeletal and nervous systems. Animal organ dissection required.								

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Prerequisites: BI-112 (preferred), or BI-101 and BI-102, or BI-221Z										
Corequisites: BI-231L										
Prerequisites: CH-112 (preferred), or CH-104 and CH-105, or CH-221Z, CH-227Z, CH-222Z and CH-228Z										
OC HYB	BI-231-01	341359 M						10-11:50 AM		
	M. PATTERSON		\$520.00	\$52.00	\$55.00	\$627.00				
Corequisite: Take 1 of the following BI-231L-01, BI-231L-02, BI-231L-03.										
OC HYB	BI-231-02	341360 T						1-2:50 PM		
	B. KOP		\$520.00	\$52.00	\$55.00	\$627.00				
This section has in-person lecture and lab requirements and online lecture assignments. Corequisite: Take 1 of the following BI-231L-01, BI-231L-02, BI-231L-03.										
HAR	BI-231-15	341361 TTH						9-10:20 AM		
	M. PATTERSON		\$520.00	\$52.00	\$55.00	\$627.00				
Corequisite: Take the following BI-231L-15.										
OC HYB	BI-231-20	341364 M						6:30 -9:00 PM		
	B. KOP		\$520.00	\$52.00	\$55.00	\$627.00				
Corequisite: Take the following BI-231L-20.										

BI-231L HUMAN ANATOMY & PHYSIOLOGY I LAB, 0 CREDIT

Lab course for BI-231

Corequisites: BI-231

OC	BI-231L-01	341366 M						1-3:50 PM		
	M. PATTERSON		\$0.00	\$0.00	\$0.00	\$0.00				
Corequisite: Take 1 of the following BI-231-01, BI-231-02.										
OC	BI-231L-02	341371 T						3:30 -6:20 PM		
	J. GALLEGOS		\$0.00	\$0.00	\$0.00	\$0.00				
Corequisite: Take 1 of the following BI-231-01, BI-231-02.										
OC	BI-231L-03	341374 W						9-11:50 AM		
	M. PATTERSON		\$0.00	\$0.00	\$0.00	\$0.00				
Corequisite: Take 1 of the following BI-231-01, BI-231-02.										
HAR	BI-231L-15	341376 TTH						10:30 -11:50 AM		
	M. PATTERSON		\$0.00	\$0.00	\$0.00	\$0.00				
Corequisite: Take the following BI-231-15.										
OC	BI-231L-20	341378 W						6:30 -9:20 PM		
	J. GALLEGOS		\$0.00	\$0.00	\$0.00	\$0.00				
Corequisite: Take the following BI-231-20.										

BI-232 HUMAN ANATOMY & PHYSIOLOGY II, 4 CREDITS

Lab course covering structure and function of the muscular, cardiovascular, lymphatic, and respiratory systems. Animal organ dissection required.

Prerequisites: BI-231 with a C or better**Corequisites:** BI-232L

OC HYB	BI-232-01	341382 T						9-10:50 AM		
	B. KOP		\$520.00	\$52.00	\$55.00	\$627.00				
This section has in-person lecture and lab requirements and online lecture assignments.										

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

Lab course for BI-232

Corequisites: BI-232

OC	BI-232L-01	341387 T						11:30 -2:20 PM		
	J. GALLEGOS		\$0.00	\$0.00	\$0.00	\$0.00				

BI-233 HUMAN ANATOMY & PHYSIOLOGY III, 4 CREDITS

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

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

OC HYB	BI-233-01	341394 M						1-2:50 PM		
	B. KOP		\$520.00	\$52.00	\$55.00	\$627.00				
This section has in-person lecture and lab requirements and online lecture assignments.										

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

Lab course for BI-233

Corequisites: BI-233

OC	BI-233L-01	341400 M						4-6:50 PM		
	M. PATTERSON		\$0.00	\$0.00	\$0.00	\$0.00				

BI-234 INTRODUCTORY MICROBIOLOGY, 4 CREDITS

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

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

OC	BI-234-01	341407 TTH						1-2:20 PM		
	S. SOLL		\$520.00	\$52.00	\$55.00	\$627.00				
Corequisite: Take the following BI-234L-01.										
OC	BI-234-20	341412 TTH						6-7:20 PM		
	M. PLUMMER		\$520.00	\$52.00	\$55.00	\$627.00				
Corequisite: Take the following BI-234L-20.										
ONL	BI-234-40	341415								
	S. SOLL		\$520.00	\$52.00	\$170.00	\$742.00				
Corequisite: Take the following BI-234L-40.										

BI-234L INTRODUCTORY MICROBIOLOGY LAB, 0 CREDIT

Lab course for BI-234

Corequisites: BI-234

OC	BI-234L-01	341417 TTH						2:30 -3:50 PM		
	S. SOLL		\$0.00	\$0.00	\$0.00	\$0.00				
Corequisite: Take the following BI-234-01.										
OC	BI-234L-20	341422 TTH						7:30 -8:50 PM		
	M. PLUMMER		\$0.00	\$0.00	\$0.00	\$0.00				
Corequisite: Take the following BI-234-20.										
ONL	BI-234L-40	341425								
	A. KAPILA		\$0.00	\$0.00	\$0.00	\$0.00				
Corequisite: Take the following BI-234-40.										

Business Administration**BA-101Z INTRODUCTION TO BUSINESS, 4 CREDITS**

Presents an integrated view of both established and entrepreneurial businesses by studying their common characteristics and processes in a global context. Introduces theory and develops basic skills in the areas of accounting, finance, management, and marketing, with an emphasis on social responsibility and ethical practices. Explores how businesses can create value for themselves and society by addressing environmental and social challenges.

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

OC LCT	BA-101Z-01	341263 TTH						8-9:50 AM		
	J. EICHENBERGER		\$520.00	\$52.00	\$55.00	\$577.00				

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Course Listing

2025/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 LCT	BA-101Z-02 341267 T B. FORNEY Online textbook included in section fees.					\$520.00	\$52.00	10-11:50 AM	\$44.38	\$616.38
OC HYB LCT	BA-101Z-03 341269 TH J. EICHENBERGER					\$520.00	\$52.00	10-11:50 AM	\$5.00	\$577.00
OC HYB LCT	BA-101Z-04 341271 W J. AMAN Online textbook included in section fees.					\$520.00	\$52.00	1-2:50 PM	\$44.38	\$616.38
ONL LCT	BA-101Z-05 341272 M. MOISO					\$520.00	\$52.00		\$5.00	\$577.00
ONL LCT	BA-101Z-06 341273 K. HEINIG Online textbook included in section fees.					\$520.00	\$52.00		\$44.38	\$616.38
ONL LCT	BA-101Z-07 341274 M. MOISO					\$520.00	\$52.00		\$5.00	\$577.00
ONL LCT	BA-101Z-08 341275 S. RAHN Online textbook included in section fees.					\$520.00	\$52.00		\$44.38	\$616.38
BA-111 GENERAL ACCOUNTING I, 3 CREDITS Introduces the terminology and processes of full-cycle, modified cash and accrual basis bookkeeping for small service and merchandising businesses with inventory. Focus is on how to analyze and record financial transactions, reconcile accounts and trial balances, and prepare basic financial statements. Additional topics include cash management, bank reconciliations, accounting for sales and purchase discounts. Emphasizes procedure and practice. Recommended Prerequisites: Placement in MTH-020										
OC	BA-111-01 341280 T J. SAN-CLAIRE Online textbook included in section fees.					\$390.00	\$39.00	9-11:50 AM	\$114.99	\$543.99
ONL	BA-111-02 341282 K. JANICKI Online textbook included in section fees.					\$390.00	\$39.00		\$114.99	\$543.99
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 341283 J. SAN-CLAIRE Online textbook included in section fees.					\$520.00	\$52.00		\$114.99	\$686.99
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 341285 C. PLOWMAN					\$260.00	\$26.00		\$5.00	\$291.00
ONL LCT	BA-119-02 341287 C. PLOWMAN					\$260.00	\$26.00		\$5.00	\$291.00
BA-120 PROJECT MANAGEMENT FUNDAMENTALS, 4 CREDITS Foundational course in project management. Students gain an introduction to project management principles and techniques, including identifying project life cycle phases, generating a project charter, learning and applying stakeholder management techniques, generating work/task breakdowns, network diagrams and identifying the critical path. Students will also learn and apply risk management techniques, resource allocation, and project monitoring and controlling methodologies. Recommended: Working knowledge and access to MS Excel and MS Word										
ONL	BA-120-01 341288 S. RAHN					\$520.00	\$52.00		\$5.00	\$577.00
BA-125 PROJECT MANAGEMENT PREP, 5 CREDITS Tools and processes employed in the project knowledge areas of project communication, risk, procurement, and quality. Major topics include project communication planning and preferred communication channels and approaches; risk assessment and risk management in a project environment; project procurement planning and management with an emphasis on contract types and contract awards and administration; and approaches to project quality planning, quality assurance, control and improvement. Prerequisite or Corequisite: BA-120										
OC HYB	BA-125-01 341290 T S. RAHN					\$650.00	\$65.00	6-8:20 PM	\$5.00	\$720.00
BA-128 PROJECT MANAGEMENT: LEADERSHIP STRATEGIES, 4 CREDITS 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 NCT	BA-128-01 341291 S. RAHN					\$520.00	\$52.00		\$20.00	\$592.00
BA-131 INTRODUCTION TO BUSINESS COMPUTING, 4 CREDITS Introductory course using Microsoft Word, Excel, Access, and PowerPoint applications to create business documents. Required: Access to the following: personal computer or laptop with MS Windows Operating System (Windows 10 or 11), Office 365 OR MS Office 2021, internet access (including email), or access to the CCC Dye Academic Computer Lab for completion of coursework Recommended Prerequisites: WRD-090 or placement in WRD-098										
OC HYB	BA-131-01 341292 W F. MEYERS Office 2021 version is used. Online textbook included in section fees.					\$520.00	\$52.00	10-11:50 AM	\$137.33	\$709.33
OC HYB	BA-131-02 341296 W F. MEYERS Office 2021 version is used. Online textbook included in section fees.					\$520.00	\$52.00	1-2:50 PM	\$137.33	\$709.33
OC HYB	BA-131-03 341297 T M. SORRENTINO Office 2021 version is used. Online textbook included in section fees.					\$520.00	\$52.00	1-2:50 PM	\$137.33	\$709.33

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REM	BA-131-04 341298 M J. AMAN Office 2021 version is used. Online textbook included in section fees.					\$520.00	\$52.00	6-8:20 PM	\$137.33	\$709.33
ONL	BA-131-05 341299 D. HEINIG Office 2021 version is used. Online textbook included in section fees.					\$520.00	\$52.00		\$137.33	\$709.33
ONL	BA-131-06 341301 D. HEINIG Office 2021 version is used. Online textbook included in section fees.					\$520.00	\$52.00		\$137.33	\$709.33
ONL	BA-131-07 341303 K. HEINIG Office 2021 version is used. Online textbook included in section fees.					\$520.00	\$52.00		\$137.33	\$709.33
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										
ONL	BA-169Z-30 340939 D. CARINO					\$520.00	\$52.00		\$20.00	\$592.00
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										
ONL NCT	BA-205-01 341304 C. CHATTERTON					\$520.00	\$52.00		\$5.00	\$577.00
BA-206 MANAGEMENT FUNDAMENTALS, 4 CREDITS										
Concepts and theories of management with focus on planning, organizing, leading, and controlling. Decision making, planning principles, global management, managing people and teams, effective communication, and motivation are included.										
Prerequisites: WRD-090 or placement in WRD-098										
Recommended Prerequisites: BA-101Z and BA-251										
ONL	BA-206-01 341305 J. AMAN Online textbook included in section fees.					\$520.00	\$52.00		\$131.08	\$703.08
BA-211Z PRINCIPLES OF FINANCIAL ACCOUNTING, 4 CREDITS										
Imparts an understanding of the purpose of accounting, common financial statement items, and the principles of internal controls. Focuses on recording the impact of economic events on account balances using U.S. Generally Accepted Accounting Principles, and the creation and analysis of financial statements to aid in external decision making.										
Prerequisites: BA-101Z and BA-131										
Recommended Prerequisites: BA-111, and MTH-050 or higher										
OC HYB	BA-211Z-01 341309 M I. SETO Online textbook included in section fees.					\$520.00	\$52.00	9-11:50 AM	\$134.99	\$706.99
ONL	BA-211Z-02 341313 J. SAN-CLAIRE Online textbook included in section fees.					\$520.00	\$52.00		\$134.99	\$706.99
REM	BA-211Z-03 341314 TH I. SETO Online textbook included in section fees.					\$520.00	\$52.00	1-2:50 PM	\$134.99	\$706.99
BA-213Z PRINCIPLES OF MANAGERIAL ACCOUNTING, 4 CREDITS										
Builds an understanding of the role of managerial accounting in a business, focusing on the development and use of information to evaluate production costs and operational performance in support of short- and long-term organizational decision-making.										
Prerequisites: BA-211Z with a C or better										
ONL	BA-213Z-01 341317 J. SAN-CLAIRE Online textbook included in section fees.					\$520.00	\$52.00		\$124.99	\$696.99
BA-217 BUDGETING FOR MANAGERS, 3 CREDITS										
Budgeting is a crucial managerial decision-making and planning tool that also incorporates performance evaluation through variance analysis. This course examines developing and managing department and project budgets in-depth, as well as how they fit into the overall organizational framework. Specifically, this course includes coverage of static, flexible, and rolling budgets, capital budgeting, variance analysis, break-even and contribution margin analysis, profit planning, manufacturing costs, sales forecasts, and cost behavior.										
Prerequisites: BA-211Z										
Recommended Prerequisites: BA-213Z or some experience in budgeting										
ONL NCT	BA-217-01 341324 T. FRANK					\$390.00	\$39.00		\$5.00	\$434.00
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	BA-218-01 341327 W J. AMAN Online textbook included in section fees.					\$520.00	\$52.00	9-10:50 AM	\$134.99	\$706.99
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-223-01 341329 C. CHATTERTON					\$520.00	\$52.00		\$5.00	\$577.00
ONL	BA-223-02 341333 J. EICHENBERGER					\$520.00	\$52.00		\$5.00	\$577.00
BA-224 HUMAN RESOURCE MANAGEMENT, 4 CREDITS										
Focuses on a practical, real world approach to Human Resource Management for line managers and Human Resource Managers. Introduces history and current legal environment of Human Resource Management and applies current practice in the functions of staffing, human resource development, compensation, safety and health, and employee and labor relations in both union and non-union environment.										

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Instructor			Tuition	Fee	Crs. Fee		Instructor			Tuition	Fee	Crs. Fee	
ONL	BA-224-01	341334					M. MOISO			\$520.00	\$52.00	\$48.75	\$620.75
							Online textbook included in section fees.						
BA-226Z							INTRODUCTION TO BUSINESS LAW, 4 CREDITS						
Provides a comprehensive overview of U.S. business law, including the legal system, contracts, torts, intellectual property, agency, employment, and business organization forms. Emphasizes practical legal knowledge and explores how laws impact business operations, with a focus on risk management, contract disputes, business formation, and compliance with government regulation. Introduces legal challenges in business through real cases and legal terminology.													
ONL	BA-226Z-01	341338					M. MOISO			\$520.00	\$52.00	\$52.59	\$624.59
							Online textbook included in section fees.						
ONL	BA-226Z-02	341341					M. MOISO			\$520.00	\$52.00	\$52.59	\$624.59
							Online textbook included in section fees.						
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	341343 T			10-11:50 AM		TBA			\$520.00	\$52.00	\$121.33	\$693.33
							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	341346					T. FRANK			\$390.00	\$39.00	\$5.00	\$434.00
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	341350					D. HEINIG			\$390.00	\$39.00	\$51.66	\$480.66
							Online textbook included in section fees.						
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	341356					C. CHATTERTON			\$520.00	\$52.00	\$5.00	\$577.00

BA-280		BUSINESS/CWE, 2-6 CREDITS											
Cooperative work experience. On-the-job experience in a business related to the student's major course of study. Under supervision of instructor and employer. May be repeated for up to 6 credits. Required: Student Petition.													
Corequisites: CWE-281													
ONL NCT	BA-280-01	341358					B. FORNEY			\$780.00	\$78.00	\$45.00	\$903.00V
							Required: Student Petition. Corequisite: Take the following CWE-281-06.						
ONL NCT	BA-280-02	341362					S. RAHN			\$780.00	\$78.00	\$45.00	\$903.00V
							Required: Student Petition. Corequisite: Take the following CWE-281-06.						
BA-285		HUMAN RELATIONS IN BUSINESS, 4 CREDITS											
Introduces the theory and practical application of human relations at the individual, group, and organizational levels. Emphasizes psychological principles that help build relationships among employees and employers. Includes goal setting, motivation, communication, leadership, conflict management, and individual and group behavior.													
ONL	BA-285-01	341363					TBA			\$520.00	\$52.00	\$51.66	\$623.66
							Online textbook included in section fees.						
ONL	BA-285-02	341365					J. HERNANDEZ			\$520.00	\$52.00	\$51.66	\$623.66
							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	341367					S. SIMMONS			\$260.00	\$26.00	\$10.00	\$296.00
ONL	BT-120-02	341370					S. SIMMONS			\$260.00	\$26.00	\$10.00	\$296.00
BT-121		DATA ENTRY, 1 CREDIT											
This course is designed to teach the computer numeric keypad by touch with speed and accuracy using industry standards for data entry. This skill is especially helpful to people in the fields of data entry, accounting, office administration, insurance, banking and finance, and any other work that requires numeric input.													
ONL	BT-121-01	341372					S. SIMMONS			\$130.00	\$13.00	\$10.00	\$153.00
ONL	BT-121-02	341379					S. SIMMONS			\$130.00	\$13.00	\$10.00	\$153.00
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.													

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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	341358	B. FORNEY			\$780.00	\$78.00	\$45.00		\$903.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.									
ONL NCT	BA-280-02	341362	S. RAHN			\$780.00	\$78.00	\$45.00		\$903.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.									

BA-285 HUMAN RELATIONS IN BUSINESS, 4 CREDITS

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

ONL	BA-285-01	341363	TBA			\$520.00	\$52.00	\$51.66		\$623.66
	Online textbook included in section fees.									
ONL	BA-285-02	341365	J. HERNANDEZ			\$520.00	\$52.00	\$51.66		\$623.66
	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	341367	S. SIMMONS			\$260.00	\$26.00	\$10.00		\$296.00
ONL	BT-120-02	341370	S. SIMMONS			\$260.00	\$26.00	\$10.00		\$296.00

BT-121 DATA ENTRY, 1 CREDIT

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

ONL	BT-121-01	341372	S. SIMMONS			\$130.00	\$13.00	\$10.00		\$153.00
ONL	BT-121-02	341379	S. SIMMONS			\$130.00	\$13.00	\$10.00		\$153.00

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		Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
	Instructor									
Prerequisites: BT-120										
ONL	BT-122-01	341381								
	S. SIMMONS					\$260.00	\$26.00	\$10.00		\$296.00
ONL	BT-122-02	341389								
	S. SIMMONS					\$260.00	\$26.00	\$10.00		\$296.00
BT-124	BUSINESS EDITING I, 3 CREDITS									
Course builds business communication skills through the study of the written communication process and the correct use of grammar, spelling, vocabulary, types of written business communication, and basic editing principles.										
Recommended Prerequisites: WRD-090 or placement in WRD-098										
ONL NCT	BT-124-01	341390								
	S. SIMMONS					\$390.00	\$39.00	\$10.00		\$439.00
BT-125	BUSINESS EDITING II, 3 CREDITS									
This course continues the study of professional editing and writing in a business office. The continued and correct use of acceptable spelling, grammar, and formatting of business documents will be covered in-depth, with increased practice in writing and editing skills in the composition of letters, memos, emails, reports, and presentations. Functional business reports will be covered in relation to written reports and proposals, as well as customer service phone etiquette and the creation of professional presentations for the workplace.										
Prerequisites: BT-124 with a C or better										
ONL NCT	BT-125-01	345261								
	S. SIMMONS					\$390.00	\$39.00	\$10.00		\$439.00
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.										
ONL	BT-150-01	347140								
	F. MEYERS					\$520.00	\$52.00	\$92.25		\$664.25
	Office 2021 version is used. Online textbook included in section fees.									
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.										
Prerequisites: BA-131 and BT-150										
ONL	BT-262-01	341396								
	B. FORNEY					\$520.00	\$52.00	\$127.33		\$699.33
	Office 2021 version is used. Online textbook included in section fees.									
Chemistry										
CH-104	INTRODUCTORY CHEMISTRY, 5 CREDITS									
A lab transfer course for students in nursing, allied health fields and liberal arts. Topics include: observation, measurement, composition, stoichiometry, atomic structure, periodic table, bonding and nomenclature.										
Corequisites: CH-104L and CH-104S										
Prerequisites: MTH-065 or MTH-098 or placement in MTH-095; and WRD-090 or placement in WRD-098										
OC	CH-104-01	341437 MW								
	S. MCDONALD					\$650.00	\$65.00	\$50.00		\$765.00
	Corequisite: Take the following CH-104S-01, CH-104L-01.									
ONL	CH-104-40	341452								
	X. DONG					\$650.00	\$65.00	\$50.00		\$765.00
	Corequisite: Take the following CH-104S-40, CH-104L-40.									
CH-104L	INTRODUCTORY CHEMISTRY LAB, 0 CREDIT									
Lab course for CH-104										
Corequisites: CH-104 and CH-104S										
OC	CH-104L-01	341453 TBA								
	G. BURGESS					\$0.00	\$0.00	\$0.00		\$0.00
	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. Corequisite: Take the following CH-104-01, CH-104S-01.									
OC	CH-104L-40	341455 TBA								
	G. BURGESS					\$0.00	\$0.00	\$0.00		\$0.00
	Open Lab: Students must spend 3 hours per week in Chemistry Tutorial Lab. Lab Hours: Wed: 9 AM-4 PM, Thursday: 9 AM-8 PM, & Friday: 9 AM-4 PM Corequisite: Take the following CH-104-40, CH-104S-40.									
CH-104S	INTRODUCTORY CHEMISTRY SEMINAR, 0 CREDIT									
Seminar course for CH-104										
Corequisites: CH-104 and CH-104L										
OC	CH-104S-01	341457 TH								
	S. MCDONALD					\$0.00	\$0.00	\$0.00		\$0.00
	Corequisite: Take the following CH-104-01, CH-104S-01.									
OC	CH-104S-40	341464 TH								
	X. DONG					\$0.00	\$0.00	\$0.00		\$0.00
	Corequisite: Take the following CH-104-40, CH-104L-40.									
CH-112	CHEMISTRY FOR HEALTH SCIENCES, 4 CREDITS									
One-term preparatory chemistry course for students who want to take BI-231 and/or BI-234. Includes measurement; atomic structure; periodic table; bonding; nomenclature; heat; molecular and ionic interactions in solids; liquids and solutions; chemical reactions including acid-base; organic chemistry; and biochemistry.										
Corequisites: CH-112L										
Prerequisites: MTH-065 or MTH-098 with a C or better or placement in MTH-095										
Prerequisites: WRD-090 or placement in WRD-098										
Recommended Corequisite: BI-112										
OC LCT	CH-112-01	341465 MW								
	S. MCDONALD					\$520.00	\$52.00	\$50.00		\$622.00
	Corequisite: Take 1 of the following CH-112L-01, CH-112L-02.									
ONL LCT	CH-112-15	341471								
	N. DAS					\$520.00	\$52.00	\$50.00		\$622.00
	Corequisite: Take the following CH-112L-15.									
ONL LCT	CH-112-20	341474								
	D. PAUL					\$520.00	\$52.00	\$50.00		\$622.00
	Corequisite: Take the following CH-112L-20.									

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2025/FA

Course No							Course Title, Credits						
Section No	Crs Reg.	Days	Time				Section No	Crs Reg.	Days	Time			
Instructor		(M,T,W,Th,F,S,SU)	Tuition	Fee	Crs. Fee	Total	Instructor		(M,T,W,Th,F,S,SU)	Tuition	Fee	Crs. Fee	Total
OC HYB LCT CH-112-40 341475 TBA													
D. PAUL			\$520.00	\$52.00	\$50.00	\$622.00	Seminar course for CH-221Z						
In-person exam sessions will happen on October 29 and December 3. Corequisite: Take the following CH-112L-40.							Corequisites: CH-221Z and CH-227Z						
CH-112L CHEMISTRY FOR HEALTH SCIENCES LAB, 0 CREDIT													
Lab course for CH-112													
Corequisites: CH-112													
OC	CH-112L-01	341477 W			1-3:50 PM		OC	CH-221SZ-01	341538 W			11:30 -12:20 PM	
D. PAUL			\$0.00	\$0.00	\$0.00	\$0.00	D. MYERS			\$0.00	\$0.00	\$0.00	\$0.00
Corequisite: Take the following CH-112-01.							Corequisite: Take 2 of the following CH-221Z-01, CH-227Z-01, CH-227Z-02.						
OC	CH-112L-02	341483 TH			9-11:50 AM		OC	CH-221SZ-02	341541 W			1-1:50 PM	
S. MCDONALD			\$0.00	\$0.00	\$0.00	\$0.00	D. MYERS			\$0.00	\$0.00	\$0.00	\$0.00
Corequisite: Take the following CH-112-01.							Corequisite: Take 2 of the following CH-221Z-01, CH-227Z-01, CH-227Z-02.						
HAR	CH-112L-15	341486 W			1-3:50 PM		OC	CH-221SZ-20	341542 TH			6-6:50 PM	
N. DAS			\$0.00	\$0.00	\$0.00	\$0.00	J. DU BOULAY			\$0.00	\$0.00	\$0.00	\$0.00
Corequisite: Take the following CH-112-15.							Corequisite: Take the following CH-221Z-20, CH-227Z-20.						
OC	CH-112L-20	341489 W			6-8:50 PM		OC	CH-221SZ-40	341544 F			1-1:50 PM	
D. PAUL			\$0.00	\$0.00	\$0.00	\$0.00	J. DU BOULAY			\$0.00	\$0.00	\$0.00	\$0.00
Corequisite: Take the following CH-112-20.							Corequisite: Take the following CH-221Z-40, CH-227Z-40.						
ONL	CH-112L-40	341491				\$0.00	CH-221Z GENERAL CHEMISTRY I, 4 CREDITS						
D. PAUL			\$0.00	\$0.00	\$0.00	\$0.00	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.						
Corequisite: Take the following CH-112-40.							Prerequisites: CH-104 and CH-105, or CH-150, with a C or better; or a year of high school chemistry within five academic years of beginning CH-221Z (passed all terms with C or higher)						
CH-150 PREPARATORY CHEMISTRY, 4 CREDITS							Corequisites: CH-227Z and CH-221SZ						
One term preparatory course for students who must take the general chemistry sequence (CH-221Z, CH-222Z, CH-223Z) but have no chemistry background.													
Corequisites: CH-150S													
Prerequisites: MTH-095 or placement in MTH-111Z													
OC	CH-150-01	341498 MWF			10-10:50 AM		OC LCT	CH-221Z-01	345094 MW			10-11:20 AM	
N. DAS			\$520.00	\$52.00	\$20.00	\$592.00	D. MYERS			\$520.00	\$52.00	\$0.00	\$572.00
Corequisite: Take 1 of the following CH-150S-01, CH-150S-02, CH-150S-03.							Corequisite: Take 2 of the following CH-221SZ-01, CH-221SZ-02, CH-227Z-01, CH-227Z-02.						
ONL	CH-150-02	341502					ONL LCT	CH-221Z-20	345095				
D. MYERS			\$520.00	\$52.00	\$20.00	\$592.00	J. DU BOULAY			\$520.00	\$52.00	\$0.00	\$572.00
Corequisite: Take 1 of the following CH-150S-01, CH-150S-02, CH-150S-03.							This class has an in-person lab requirement. Corequisite: Take the following CH-221SZ-20, CH-227Z-20.						
ONL	CH-150-03	341504					ONL LCT	CH-221Z-40	345096				
X. DONG			\$520.00	\$52.00	\$20.00	\$592.00	J. DU BOULAY			\$520.00	\$52.00	\$0.00	\$572.00
This section includes an in-person seminar requirement. Corequisite: Take 1 of the following CH-150S-01, CH-150S-02, CH-150S-03.							This section has an in-person lab requirement and seminar requirement. Corequisite: Take the following CH-221SZ-40, CH-227Z-40.						
CH-150S PREPARATORY CHEMISTRY SEMINAR, 0 CREDIT													
Seminar course for CH-150													
Corequisites: CH-150													
OC	CH-150S-01	341506 F			11-11:50 AM		OC	CH-227Z-01	345097 TH			9-11:50 AM	
N. DAS			\$0.00	\$0.00	\$0.00	\$0.00	D. MYERS			\$130.00	\$13.00	\$50.00	\$193.00
Corequisite: Take 1 of the following CH-150-01, CH-150-02, CH-150-03.							Corequisite: Take 2 of the following CH-221Z-01, CH-221SZ-01, CH-221SZ-02.						
OC	CH-150S-02	341510 W			2-2:50 PM		OC	CH-227Z-02	345098 TH			1-3:50 PM	
D. MYERS			\$0.00	\$0.00	\$0.00	\$0.00	D. MYERS			\$130.00	\$13.00	\$50.00	\$193.00
Corequisite: Take 1 of the following CH-150-01, CH-150-02, CH-150-03.							Corequisite: Take 2 of the following CH-221Z-01, CH-221SZ-01, CH-221SZ-02.						
OC	CH-150S-03	341513 TH			11-11:50 AM		OC	CH-227Z-20	345099 TH			7-9:50 PM	
X. DONG			\$0.00	\$0.00	\$0.00	\$0.00	J. DU BOULAY			\$130.00	\$13.00	\$50.00	\$193.00
Corequisite: Take 1 of the following CH-150-01, CH-150-02, CH-150-03.							Corequisite: Take the following CH-221Z-20, CH-221SZ-20.						
CH-221SZ GENERAL CHEMISTRY I SEMINAR, 0 CREDIT													
Seminar course for CH-221Z													
Corequisites: CH-221Z and CH-227Z													
OC	CH-221SZ-01	341538 W			11:30 -12:20 PM		OC	CH-227Z-01	345097 TH			9-11:50 AM	
D. MYERS			\$0.00	\$0.00	\$0.00	\$0.00	D. MYERS			\$130.00	\$13.00	\$50.00	\$193.00
Corequisite: Take 2 of the following CH-221Z-01, CH-227Z-01, CH-227Z-02.							Corequisite: Take 2 of the following CH-221Z-01, CH-221SZ-01, CH-221SZ-02.						
OC	CH-221SZ-02	341541 W			1-1:50 PM		OC	CH-227Z-02	345098 TH			1-3:50 PM	
D. MYERS			\$0.00	\$0.00	\$0.00	\$0.00	D. MYERS			\$130.00	\$13.00	\$50.00	\$193.00
Corequisite: Take 2 of the following CH-221Z-01, CH-227Z-01, CH-227Z-02.							Corequisite: Take 2 of the following CH-221Z-01, CH-221SZ-01, CH-221SZ-02.						
OC	CH-221SZ-20	341542 TH			6-6:50 PM		OC	CH-227Z-40	345100 F			2-4:50 PM	
J. DU BOULAY			\$0.00	\$0.00	\$0.00	\$0.00	J. DU BOULAY			\$130.00	\$13.00	\$50.00	\$193.00
Corequisite: Take the following CH-221Z-20, CH-227Z-20.							Corequisite: Take the following CH-221Z-40, CH-221SZ-40.						
OC	CH-221SZ-40	341544 F			1-1:50 PM		CH-227Z GENERAL CHEMISTRY I LABORATORY, 1 CREDIT						
J. DU BOULAY			\$0.00	\$0.00	\$0.00	\$0.00	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.						
Corequisite: Take the following CH-221Z-40, CH-227Z-40.							Corequisites: CH-221Z and CH-221SZ						

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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	341547	MW		1-2:20 PM					
	G. BURGESS	\$650.00	\$65.00	\$50.00	\$765.00					
CH-241L	ORGANIC CHEMISTRY I LAB, 0 CREDIT									
Lab course for CH-241										
Corequisites: CH-241 and CH-241S										
OC	CH-241L-01	341551	F		9-11:50 AM					
	G. BURGESS	\$0.00	\$0.00	\$0.00	\$0.00					
CH-241S	ORGANIC CHEMISTRY I SEMINAR, 0 CREDIT									
Seminar course for CH-241										
Corequisites: CH-241 and CH-241L										
ONL	CH-241S-01	341554								
	G. BURGESS	\$0.00	\$0.00	\$0.00	\$0.00					
This section has in-person lecture and lab requirements.										
OC NCT	HD-121-02	341674	MTWTHF		10-11:50 AM					
	E. PFEIFER	\$390.00	\$39.00	\$0.00	\$429.00					
Meets: 9/8-9/26. Additional 3 hours TBA. Required: Student Petition.										
HD-140	CAREER EXPLORATION, 3 CREDITS									
Students use information about themselves (values, interests, personality and skills) and information about the world of work (careers and industries) to explore and make long term career decisions.										
ONL NCT	HD-140-01	341695								
	TBA	\$390.00	\$39.00	\$10.00	\$439.00					
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	341699								
	M. MALLATT	\$130.00	\$13.00	\$10.00	\$153.00					
Meets: 10/14-10/28.										
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	345323								
	TBA	\$130.00	\$13.00	\$10.00	\$153.00					
Meets: 11/4-11/18.										
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	341713	M		3-4:50 PM					
	M. BAKER	\$260.00	\$26.00	\$0.00	\$286.00					
REM NCT	HD-220-04	341714	TH		8-9:50 AM					
	J. GINSBURG	\$260.00	\$26.00	\$0.00	\$286.00					

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	341521								
	B. MALONEY	\$130.00	\$13.00	\$0.00	\$143.00					

EL-111 COLLEGE STUDY SKILLS, 3 CREDITS

Emphasizes time management, listening/notetaking, testing skills/anxiety, college resources, learning styles, reading strategies, textbook reading, and concentration skills.

Prerequisites: Placement in WRD-090 or higher

OC HYB NCT	EL-111-01	341523	T		1-2:20 PM					
	B. MALONEY	\$390.00	\$39.00	\$15.00	\$444.00					
Meets: 10/13-12/13.										

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	341691								
	J. GINSBURG	\$780.00	\$78.00	\$0.00	\$858.00V					
Required: Student Petition.										

HD-121 COLLEGE SUCCESS, 3 CREDITS

Provides strategies for creating college success by understanding one's role in their learning and by gaining critical skills necessary to learn across contexts.

ONL NCT	HD-121-01	341672								
	C. WEGNER	\$390.00	\$39.00	\$0.00	\$429.00					
Meets: 9/8-10/4. Required: Student Petition.										

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OC NCT	COMM-100Z-04	345177 MW					HAR NCT	COMM-111Z-16	340895 MW				
	L. HANN			\$520.00	\$52.00	\$0.00		J. NETZER			\$520.00	\$52.00	\$20.00
						\$572.00							\$592.00
COMM-111ESZ HABLANDO EN PUBLICO, 4 CREDITS							COMM-126 INTRO TO COMMUNICATION, GENDER, AND SEXUALITY, 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.							This course explores the relationships among communication, gender, sexuality, and other intersections of identity. We will examine how contact produces and perpetuates constructions and performances of gender, as well as how understandings of gender influence communication practices. We will learn about various approaches to the study of gender and communication, and we will identify predominant patterns of gendering that shape our culture.						
Prerequisites: WR-124ES							Recommended Prerequisites: WRD-098 or placement in WR-121Z						
REM NCT	COMM-111ESZ-01	345175 TTH					OC NCT	COMM-126-01	340898 MW				
ESPAÑOL	A. MOSEY			\$520.00	\$52.00	\$20.00		L. HANN			\$520.00	\$52.00	\$0.00
						\$592.00							\$572.00
COMM-111Z PUBLIC SPEAKING, 4 CREDITS							COMM-140 INTRODUCTION TO INTERCULTURAL COMMUNICATION, 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.							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.						
Prerequisites: WRD-098 or placement in WR-121Z							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 Prerequisite or Corequisite: FYE-101							Recommended Prerequisites: WRD-098 or placement in WR-121Z						
OC NCT	COMM-111Z-01	340864 MW					ONL NCT	COMM-140-01	340900				
	K. HUGHES			\$520.00	\$52.00	\$20.00		K. HUGHES			\$520.00	\$52.00	\$0.00
						\$592.00							\$572.00
REM NCT	COMM-111Z-02	340870 MW					COMM-212 MASS MEDIA & SOCIETY, 4 CREDITS						
	J. SMITH			\$520.00	\$52.00	\$20.00	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.						
						\$592.00	Recommended Prerequisites: WRD-098 or placement in WR-121Z						
OC NCT	COMM-111Z-03	340872 TTH					OC	COMM-212-01	340903 MW				
	K. MCCONNELL			\$520.00	\$52.00	\$20.00		M. JONES			\$520.00	\$52.00	\$10.00
						\$592.00							\$582.00
REM NCT	COMM-111Z-04	340874 TTH					COMM-218Z INTERPERSONAL COMMUNICATION, 4 CREDITS						
	K. HUGHES			\$520.00	\$52.00	\$20.00	COMM-218Z increases the knowledge and use of competent communication skills to better understand oneself, others, and the role of communication in interpersonal relationships.						
						\$592.00	Recommended Prerequisites: WRD-098 or placement in WR-121Z						
OC NCT	COMM-111Z-05	340876 MW					OC NCT	COMM-218Z-01	340908 MW				
	K. HUGHES			\$520.00	\$52.00	\$20.00		M. WILLIAMS			\$520.00	\$52.00	\$0.00
						\$592.00							\$572.00
OC NCT	COMM-111Z-06	340878 MW					HAR NCT	COMM-218Z-15	340913 TTH				
	J. HULT			\$520.00	\$52.00	\$20.00		J. HULT			\$520.00	\$52.00	\$0.00
						\$592.00							\$572.00
REM NCT	COMM-111Z-07	340880 MW					COMM-280 SPEECH/CWE, 2-6 CREDITS						
	J. SMITH			\$520.00	\$52.00	\$20.00	Cooperative work experience. Provides students with on-the-job experience in the field of communications. Required: Student Petition.						
						\$592.00	Corequisites: CWE-281						
OC NCT	COMM-111Z-08	340883 TTH											
	K. MCCONNELL			\$520.00	\$52.00	\$20.00							
						\$592.00							
OC NCT	COMM-111Z-09	340887 TTH											
	A. SAMBOR			\$520.00	\$52.00	\$20.00							
						\$592.00							
REM NCT	COMM-111Z-10	340889 TTH											
	K. HUGHES			\$520.00	\$52.00	\$20.00							
						\$592.00							
OC NCT	COMM-111Z-11	340890 MW											
	A. SAMBOR			\$520.00	\$52.00	\$20.00							
						\$592.00							
OC NCT	COMM-111Z-12	340891 TTH											
	A. SAMBOR			\$520.00	\$52.00	\$20.00							
						\$592.00							
OC NCT	COMM-111Z-13	345176 T											
	K. DOSS			\$520.00	\$52.00	\$20.00							
						\$592.00							
HAR NCT	COMM-111Z-15	340893 TTH											
	J. HULT			\$520.00	\$52.00	\$20.00							
						\$592.00							

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ONL NCT	COMM-280-01 340916 K. HUGHES Required: Student Petition.					\$780.00	\$78.00	\$45.00		\$903.00V
Computer Science										
CS-120	SURVEY OF COMPUTING, 4 CREDITS A computer competency course to familiarize students with computer concepts, software applications and the implications of living in the digital age. Introduces students to computer concepts, including, but not limited to the Microsoft Windows environment, Microsoft Office Applications, hardware terminology, social media and the Internet. Prerequisites: WRD-098 or placement in WR-121Z									
OC HYB	CS-120-01 340922	W								
		M								
	M. SORRENTINO					\$520.00	\$52.00	\$190.65		\$762.65
	Section meets Mondays remote via Zoom from 1-2:50. Section meets in-person on campus on Wednesdays from 1-2:50. Office 2021 version is used. Online textbook included in section fees.									
ONL	CS-120-30 340928									
	M. SORRENTINO					\$520.00	\$52.00	\$190.65		\$762.65
	Office 2021 version is used. Online textbook included in section fees.									
CS-125H	HTML & WEB SITE DESIGN, 4 CREDITS Hands-on approach to planning, design, and developing published web sites using HTML tags in a text editor. The class focuses on basic HTML coding using HTML 5 models. Hyperlinks, images, cascading style sheets, forms, accessibility and design principles will be covered, as well as tools such as FTP clients, accessibility checkers, and validators. Prerequisites: BA-131 or CS-120 or higher or placement into CS-125H									
OC HYB	CS-125H-01 340931	T								
		TH								
	D. CARINO					\$520.00	\$52.00	\$20.00		\$592.00
	Section meets Tuesdays remote via Zoom from 10-11:50am. Section meets in-person on campus on Thursdays from 10-11:50am.									
ONL	CS-125H-30 340936									
	D. CARINO					\$520.00	\$52.00	\$20.00		\$592.00
CS-135DB	MICROSOFT ACCESS, 3 CREDITS 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. Prerequisites: BA-131 or CS-120 or higher or placement into CS-135DB									
OC HYB	CS-135DB-01 340937	W								
		M								
	D. CARINO					\$390.00	\$39.00	\$20.00		\$449.00
	Section meets Mondays remote via Zoom from 10-11:20am. Section meets in-person on campus on Wednesdays from 10-11:20am.									
CS-140	INTRODUCTION TO OPERATING SYSTEMS, 4 CREDITS 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:	CS-120 or equivalent placement MTH-050 or MTH-060 or placement in MTH-065 or higher WRD-098 or placement in WR-121Z									
OC HYB	CS-140-01 340942	T								
NCT		TH								
	R. CARINO					\$520.00	\$52.00	\$20.00		\$592.00
	Section meets Tuesdays remote via Zoom from 1-2:50pm. Section meets in-person on campus on Thursdays from 1-2:50pm.									
CS-140L	LINUX FOR PROGRAMMERS, 4 CREDITS 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++. Prerequisites: CS-162									
ONL LCT	CS-140L-30 340944									
	R. ALBERS					\$520.00	\$52.00	\$20.00		\$592.00
CS-153	NETWORKING 3, 4 CREDITS 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: CS-152									
OC HYB	CS-153-01 340946	T								
NCT		TH								
	R. CARINO					\$520.00	\$52.00	\$20.00		\$592.00
	Section meets Tuesdays remote via Zoom from 10-11:50am. Section meets in-person on campus on Thursdays from 10-11:50am.									
CS-160	COMPUTER SCIENCE ORIENTATION, 4 CREDITS Examines foundational computing subjects used in Computer Science and Information Technology. Topics include computer architecture, electronic logic, data representation, networking, algorithms and programming, which are used in successive Computer Science courses. Information about degrees in Computer Science and Information Technology is also covered. Recommended Prerequisites: MTH-060 or placement in MTH-065									
OC NCT	CS-160-01 340947	TTH								
	R. ALBERS					\$520.00	\$52.00	\$20.00		\$592.00
ONL NCT	CS-160-02 340950									
	R. ALBERS					\$520.00	\$52.00	\$20.00		\$592.00
ONL NCT	CS-160-03 340951									
	R. ALBERS					\$520.00	\$52.00	\$20.00		\$592.00
CS-161	COMPUTER SCIENCE I, 4 CREDITS Introduction to fundamental concepts of structured programming, including problem solving, algorithm and program design, data types, loops, control structures, subroutines, and arrays. Learn to write structured programs in a high level programming language. Prerequisites: MTH-111Z or placement in MTH-112Z, or 4 years high school math									
OC	CS-161-01 340955	MW								
	J. MILLER					\$520.00	\$52.00	\$20.00		\$592.00

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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
ONL	CS-161-02	340957						
	J. MILLER				\$520.00	\$52.00	\$20.00	\$592.00
ONL	CS-161-03	340959						
	J. MILLER				\$520.00	\$52.00	\$20.00	\$592.00
CS-225	COMPUTER END USER SUPPORT, 3 CREDITS							
Addresses professional and interpersonal skills needed by technicians who support and manage hardware and software information systems. Customer service skills; troubleshooting; helpdesk operation; product needs analysis, evaluation, purchase, and installation; technical documentation and training.								
Prerequisites: CS-120 or placement in CS-121 or equivalent experience								
Prerequisites: WRD-098 or placement in WR-101 or WR-121Z								
ONL	CS-225-30	340960						
	R. CARINO				\$390.00	\$39.00	\$20.00	\$449.00
CS-227	COMPUTER HARDWARE & REPAIR, 4 CREDITS							
An in-depth course in computer hardware. Covers operational concepts, identification, installation, configuration, and troubleshooting of power supplies, motherboards, microprocessors, memory modules, disk drives, optical drives, and expansion cards. This course, in conjunction with CS-228, covers the topics of the CompTIA A+ certification exam.								
oc	CS-227-01	340963 MW					9-11:50 AM	
	R. ALBERS				\$520.00	\$52.00	\$20.00	\$592.00
CS-233W	FULL-STACK WEB DEVELOPMENT I, 4 CREDITS							
Begin exploring the power of server-side JavaScript using Node.JS, NPM, and Express. Students will: use server-side JavaScript to implement common packages and bundle their own applications for consumer use; build custom web server applications to respond directly to HTTP requests; create, query, and manage NoSQL databases; and create views to combine user requests, database data, and static content into responsive, data-driven web applications.								
Prerequisites: CS-133J								
OC HYB NCT	CS-233W-01	340965 W					1-2:50 PM	
		M					1-2:50 PM	
	D. CARINO				\$520.00	\$52.00	\$20.00	\$592.00
Section meets Mondays remote via Zoom from 1-2:50pm. Section meets in-person on campus on Wednesdays from 1-2:50pm.								
CS-240L	LINUX ADMINISTRATION 1, 4 CREDITS							
Covers the fundamentals of the Linux operating system. Topics include: system architecture, installation, command line and file system. This course covers the topics of the Linux LPIC-1 Exam 101 certification.								
Prerequisites: CS-140								
ONL LCT	CS-240L-30	340969						
	R. CARINO				\$520.00	\$52.00	\$20.00	\$592.00
CS-260	DATA STRUCTURES, 4 CREDITS							
Covers common data structures used for the storage and manipulation of data, as well as data abstraction, sorting algorithms, and algorithm analysis. Data structures include linked lists, stacks, queues, binary trees, btrees, hash tables, and graphs.								
Prerequisites: CS-162								
ONL	CS-260-01	340972						
	J. MILLER				\$520.00	\$52.00	\$20.00	\$592.00
CS-280	COMPUTER SCIENCE/CWE, 1-6 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
Cooperative work experience. This course provides supervised work experience to supplement the academic classroom environment. Work examples include user support, work with computer applications or programming languages, installation or management PC computer systems, and developing websites. May be repeated for up to 9 credits. Required: Student Petition.								
Corequisites: CWE-281								
ONL NCT	CS-280-01	340973						
	J. MILLER				\$780.00	\$78.00	\$45.00	\$903.00V
Required: Student Petition. Restricted to computer science students. Corequisite: Take the following CWE-281-05.								
Computer-Aided Drafting Technology								
<i>Call 503-594-3318 for more information, or contact Advising, 503-594-3475.</i>								
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	341427 TTH					12-2:50 PM	
	J. TRAVER				\$390.00	\$39.00	\$153.75	\$582.75
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	341433 MW					4:30 -7:20 PM	
	M. ROTUNDO				\$390.00	\$39.00	\$153.75	\$582.75
Cooperative Work Experience								
<i>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.</i>								
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	340754						
	M. LAFORCE				\$0.00	\$0.00	\$0.00	\$0.00
Required: Student Petition. Restricted to Water & Environmental Technology students. Contact: laforce@clackamas.edu or 503-594-3148.								

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ONL NCT	CWE-281-05 340755 J. MILLER Required: Student Petition. Restricted to Computer Science students. Contact: jen.miller@clackamas.edu or 503-594-3138.					\$0.00	\$0.00	\$0.00		\$0.00
ONL NCT	CWE-281-06 340756 J. STAPLETON					\$0.00	\$0.00	\$0.00		\$0.00
Criminal Justice										
For more information on Criminal Justice, Corrections, credit for completion of D.P.S.S.T. or law enforcement academies contact Joanna Crawford at joanna.crawford@clackamas.edu or 503-594-6229.										
CJA-101 CRIMINOLOGY, 4 CREDITS										
Examines the social problem of crime, including the process of making and breaking laws as well as society's reaction to the phenomenon. Provides a multidisciplinary study of the causes of crime, including its distribution across social strata and demographics. Focuses on theories of criminal behavior and specific types of crime.										
ONL LCT	CJA-101-01 340739 T. MUSGRAVE					\$520.00	\$52.00	\$0.00		\$572.00
ONL LCT	CJA-101-02 340740 G. RONNING					\$520.00	\$52.00	\$0.00		\$572.00
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.										
HAR HYB	CJA-110-01 340742 M T. MUSGRAVE					\$390.00	\$39.00	\$20.00		\$449.00
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 340743 T S. HEALY					\$520.00	\$52.00	\$0.00		\$572.00
ONL LCT	CJA-122-02 340744 T. MUSGRAVE					\$520.00	\$52.00	\$0.00		\$572.00
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 340745 C. BAKER					\$390.00	\$39.00	\$0.00		\$429.00
CJA-210 CRIMINAL INVESTIGATION I, 3 CREDITS										
Introduces the history, theory and principles of criminal investigation in the criminal justice system. Describes crime scene investigation and courtroom aspects of crime scenes including interviews, evidence, follow-up, case preparation, and investigative techniques.										
Prerequisites: CJA-110 with a C or better Recommended Prerequisites: CJA-122										
HAR HYB LCT	CJA-210-01 340746 M T. MUSGRAVE					\$390.00	\$39.00	\$0.00		\$429.00
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.										
Prerequisites: CJA-203 or HS-100										
ONL LCT	CJA-214-01 340747 T. BOYLE- GALESTIANTZ					\$390.00	\$39.00	\$0.00		\$429.00
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 340748 M T. MUSGRAVE					\$390.00	\$39.00	\$0.00		\$429.00
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 340749 G. RONNING					\$390.00	\$39.00	\$0.00		\$429.00

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: Student Petition.

Required: Acceptance into Dental Assistant program

Corequisites: DA-101L

HAR	DA-101-01 340758 T K. HIATT					\$260.00	\$26.00	\$175.00		\$461.00
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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: Student Petition.

Required: Acceptance into Dental Assistant program

Corequisites: DA-101

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	Instructor		Tuition	Fee	Crs. Fee			Instructor		Tuition	Fee	Crs. Fee	
HAR HYB	DA-101L-01	340759 T			9-11:50 AM		HAR HYB	DA-107L-02	340766 F			2-4:50 PM	
	M. BUTKOVICH		\$130.00	\$13.00	\$0.00	\$143.00		M. BUTKOVICH		\$130.00	\$13.00	\$0.00	\$143.00
	K. HIATT												
	Arrive to class 5 minutes early for a 9:00AM sharp start time.							Arrive to class 5 minutes early for a 2:00PM sharp start time.					
HAR HYB	DA-101L-02	340760 T			2-4:50 PM		DA-110	CLINICAL PRACTICUM I, 1 CREDIT					
	M. BUTKOVICH		\$130.00	\$13.00	\$0.00	\$143.00		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. Twenty hours of supervised unpaid hours is required for term one practicum. 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: Student Petition.					
	E. GORDON							Required: Acceptance into Dental Assistant program					
DA-104	CLINICAL PROCEDURES I, 2 CREDITS						HAR HYB	DA-110-01	340767 W			9-3:00 PM	
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: Student Petition.								TBA					
								M			9-1:00 PM		
								K. HIATT		\$130.00	\$13.00	\$195.00	\$338.00
	In-Person Course Orientation on Wednesday, 10/1 from 10-11 AM.						Clinical Practicum (offsite in dental clinic) meets for 20 hours total on: 11/19, 11/26, 12/3, 12/10. Mandatory orientation and Medical Emergency class on Wednesday, October 22, 2025 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, 12/8 from 9AM-1 PM.						
DA-104L	CLINICAL PROCEDURES I LAB, 1 CREDIT						DA-115	DENTAL SCIENCE, 2 CREDITS					
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: Student Petition.							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: Student Petition.						
Required: Acceptance into Dental Assistant program							Required: Acceptance into Dental Assistant program						
Corequisites: DA-104							HAR HYB	DA-115-01	340768 W			8-9:00 AM	
HAR HYB	DA-104L-01	340762 TH			9-11:50 AM			R. MASCARENHAS	\$260.00	\$26.00	\$125.00	\$411.00	
	M. BUTKOVICH		\$130.00	\$13.00	\$0.00	\$143.00		Course orientation, in person, on Wed, 10/1 from 8 AM - 9 AM.					
	Arrive to class 5 minutes early for a 9:00AM sharp start time.						DA-125	DENTAL INFECTION CONTROL, 2 CREDITS					
HAR HYB	DA-104L-02	340763 TH			2-4:50 PM		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: Student Petition.						
	M. BUTKOVICH		\$130.00	\$13.00	\$0.00	\$143.00		Required: Acceptance into Dental Assistant program					
	Arrive to class 5 minutes early for a 2:00PM sharp start time.						HAR HYB	DA-125-01	340769 TH			12-1:50 PM	
DA-107	DENTAL MATERIALS I, 2 CREDITS							K. HIATT	\$260.00	\$26.00	\$240.00	\$526.00	
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: Student Petition.													
							Required: Acceptance into Dental Assistant program						
							Corequisites: DA-107L						
HAR HYB	DA-107-01	340764 F			12-1:50 PM								
	K. HIATT		\$260.00	\$26.00	\$260.00	\$546.00							
DA-107L	DENTAL MATERIALS I LAB, 1 CREDIT						Digital Media Communications						
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: Student Petition.													
							Required: Acceptance into Dental Assistant program						
							Corequisites: DA-107						
HAR HYB	DA-107L-01	340765 F			9-11:50 AM		OC NCT	DMC-100-01	340734 MW			1-2:20 PM	
	M. BUTKOVICH		\$130.00	\$13.00	\$0.00	\$143.00		M. DEVENDORF	\$390.00	\$39.00	\$30.00	\$459.00	
	Arrive to class 5 minutes early for a 9:00AM sharp start time.												

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Instructor			Tuition	Fee	Crs. Fee		Instructor			Tuition	Fee	Crs. Fee		Instructor			Tuition	Fee	Crs. Fee		Instructor			Tuition	Fee	Crs. Fee	
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	341556 TTH		1-3:50 PM		M. DEVENDORF			\$520.00	\$52.00	\$120.00		\$692.00													
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	341561 TTH		1-3:50 PM		T. WASSON			\$520.00	\$52.00	\$120.00		\$692.00													
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	341566 MW		1-3:50 PM		T. WASSON			\$520.00	\$52.00	\$120.00		\$692.00													
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	340735 F		6:30 -8:50 PM		B. ROSE			\$130.00	\$13.00	\$99.00	\$242.00	Meets: 10/17 & 10/18.													
		S		9-5:50 PM																							
DMC-225 COMPUTER GRAPHICS I, 4 CREDITS																											
Introduction to the use of digital graphics programs. Photo manipulation, illustration, and compositing techniques will be explored. Design principles and creative composition will be emphasized. Historical and contemporary issues related to graphic design aesthetics will be considered.																											
Recommended Prerequisites: ART-115																											
OC NCT		DMC-225-01	341571 MW		9-11:50 AM		T. WASSON			\$520.00	\$52.00	\$120.00		\$692.00													
OC NCT		DMC-225-02	341575 TTH		9-11:50 AM		B. THWING			\$520.00	\$52.00	\$120.00		\$692.00													
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	340736 W		3-5:50 PM		B. ROSE			\$390.00	\$39.00	\$90.00		\$519.00													
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.																											
Recommended Prerequisites: WRD-090 or placement in WRD-098, WRD-098 or placement in WR-121Z, or Student Petition																											
OC NCT		DMC-264-01	341580 MW		9-11:50 AM		M. DEVENDORF			\$520.00	\$52.00	\$120.00		\$692.00													
DMC-280 DIGITAL MEDIA COMMUNICATIONS/CWE, 3-6 CREDITS																											
Cooperative work experience. Provides students with on-the-job work experience in the field of media studies. Required: Student Petition.																											
Corequisites: CWE-281																											
ONL NCT		DMC-280-02	341584				T. WASSON			\$780.00	\$78.00	\$45.00		\$903.00V	Required: Student Petition.												
Economics																											
EC-200 CONTEMPORARY ECONOMIC ISSUES, 4 CREDITS																											
Introduction to economic approaches and issues in the current political and economic climate. This course is designed for non-majors. Topics include the history of economic thought, markets, the role of incentives, and the role of government. Additional topics vary depending upon the instructor but may include competition and market power; sustainable development and growth; poverty and inequality; international economic relationships; the economic approach to environmental protection; and healthcare.																											
Recommended Prerequisites: WRD-090 or placement in WRD-098																											
OC LCT		EC-200-01	345215 MW		10-11:50 AM		D. LOUGEE			\$520.00	\$52.00	\$0.00		\$572.00													
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	341399 MW		3-4:50 PM		D. LOUGEE			\$520.00	\$52.00	\$0.00		\$572.00													
ONL NCT		EC-201Z-02	341403				M. PARTAPURWALA			\$520.00	\$52.00	\$0.00		\$572.00													
EC-202Z PRINCIPLES OF MACROECONOMICS, 4 CREDITS																											
Examines the aggregate activity of a market economy, economic growth, inflation, unemployment, and the use of fiscal and monetary policy to address macroeconomic problems.																											
Prerequisites: MTH-020 or placement in MTH-050 or MTH-060																											
Prerequisite or Corequisite: WRD-098 or placement in WR-121Z																											

Economics

EC-200 CONTEMPORARY ECONOMIC ISSUES, 4 CREDITS

Introduction to economic approaches and issues in the current political and economic climate. This course is designed for non-majors. Topics include the history of economic thought, markets, the role of incentives, and the role of government. Additional topics vary depending upon the instructor but may include competition and market power; sustainable development and growth; poverty and inequality; international economic relationships; the economic approach to environmental protection; and healthcare.

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

OC LCT	EC-200-01	345215 MW			10-11:50 AM						
	D. LOUGEE		\$520.00	\$52.00	\$0.00						\$572.00

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	341399 MW			3-4:50 PM						
	D. LOUGEE		\$520.00	\$52.00	\$0.00						\$572.00
ONL NCT	EC-201Z-02	341403									
	M. PARTAPURWALA		\$520.00	\$52.00	\$0.00						\$572.00

EC-202Z PRINCIPLES OF MACROECONOMICS, 4 CREDITS

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

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

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

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Course No	Course Title, Credits					
	Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Total
ONL NCT	EC-202Z-01	341405				
	M. PARTAPURWALA	\$520.00	\$52.00	\$0.00		\$572.00

Education

ECE-114ES MATEMÁTICAS Y CIENCIAS PARA NIÑOS PEQUEÑOS, 3 CREDITS

Este curso se enfoca en el aprendizaje de matemáticas y ciencias para niños pequeños. Se explorarán los componentes de matemáticas y ciencias. Se hará hincapié en las estrategias de enseñanza apropiadas para promover el conocimiento de las matemáticas y las ciencias en los niños. Se explorará el entorno físico del salón de clase para que éste fomente el aprendizaje de las matemáticas y las ciencias.

Prerequisites: ECE-240ES and HDF-247ES

REM ESPAÑOL	ECE-114ES-01WMP	345183 M	6-7:50 PM			
	B. MARRON	\$390.00	\$39.00	\$0.00		\$429.00
	La clase se reúne seis lunes (9/29, 10/13, 10/27, 11/10, 11/24, y 12/8) de 6:00PM a 7:50PM.					

ECE-150 INTRODUCTION TO EARLY CHILDHOOD EDUCATION & FAMILY STUDIES, 4 CREDITS

Focuses on the history of early childhood education and the prominent theorists that have significantly contributed to the field. The types of programs that serve young children, birth-age 8, and their families will be examined. State and national standards in early childhood education and family studies will be explored.

ONL LCT	ECE-150-01	341423				
	D. GLASCOCK	\$520.00	\$52.00	\$0.00		\$572.00

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

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

REM LCT ESPAÑOL	ECE-150ES-01	341431 S	9-10:50 AM			
	L. JAMES	\$520.00	\$52.00	\$0.00		\$572.00
	La clase se reúne cinco sábados por Zoom (10/04, 10/18, 11/01, 11/15, & 12/06) de 9:00AM a 10:50AM.					

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

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

Prerequisites: FYE-101ES

REM LCT ESPAÑOL	ECE-154ES-01	341442 T	6-7:50 PM			
	M. GARCIA AVILEZ	\$520.00	\$52.00	\$0.00		\$572.00
	La clase se reúne seis martes por Zoom (9/30, 10/14, 10/28, 11/18, 11/25, y 12/9) de 6:00PM a 7:50PM.					

ECE-179ES EL PROFESIONAL EN EDUCACIÓN INFANTIL, 4 CREDITS

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	341449				
	A. ECHEVARRIA	\$520.00	\$52.00	\$0.00		\$572.00

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	341451				
	S. MYERS	\$520.00	\$52.00	\$0.00		\$572.00
	This section is an accelerated 5-week online course that runs between 9/29/25 - 11/02/25.					

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	341459 S	8-9:50 AM			
	Y. SANCHEZ	\$520.00	\$52.00	\$0.00		\$572.00
	La clase se reúne cinco sábados por Zoom (10/4, 10/18, 11/1, 11/15, y 12/6) de 8:00AM a 9:50AM.					

REM LCT ESPAÑOL	ECE-221ES-02CM	341462 TH	6-7:50 PM			
	Y. SANCHEZ	\$520.00	\$52.00	\$0.00		\$572.00
	La clase se reúne cinco jueves por Zoom (10/2, 10/16, 10/30, 11/13, y 12/4) de 6:00PM a 7:50PM.					

ECE-240ES AMBIENTES Y PLANIFICACIÓN CURRICULAR, 4 CREDITS

Se enfoca en una introducción a la creación de entornos de aprendizaje y planes de estudio para niños de tres a cinco años de edad en programas basados en hogares o centros. El curso cubre las teorías y las relaciones entre el espacio físico y social, las actividades, las experiencias y los materiales. Se enseña a los estudiantes el uso de prácticas adecuadas para el desarrollo y la cultura en la planificación y la selección de entornos y planes de estudio para niños pequeños.

Prerequisites: ECE-150ES, ECE-235ES, FYE-101ES, HDF-247ES, and WR-124ES

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Course Listing

2025/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 LCT ESPAÑOL	ECE-240ES-01 341467 S							10-11:50 AM		
	D. TORRADO					\$520.00	\$52.00	\$0.00		\$572.00
	La clase se reúne cinco sábados por Zoom (10/4, 10/18, 11/1, 11/15, y 12/6) de 10:00AM a 11:50AM.									
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.										
ONL LCT	ECE-241-01 341473									
	S. MYERS					\$390.00	\$39.00	\$0.00		\$429.00
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-01CM	344872 M						6-7:50 PM		
	R. TORRES					\$390.00	\$39.00	\$0.00		\$429.00
	La clase se reúne seis lunes por Zoom (9/29, 10/13, 10/27, 11/10, 11/24, y 12/8) de 6:00PM a 7:50PM.									
REM LCT ESPAÑOL	ECE-241ES-02344873 T							6-7:50 PM		
	R. TORRES					\$390.00	\$39.00	\$0.00		\$429.00
	La clase se reúne seis martes por Zoom (9/30, 10/14, 10/28, 11/18, 11/25, y 12/9) de 6:00PM- 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-01 341476 TH							6-7:50 PM		
	B. MARRON					\$520.00	\$52.00	\$0.00		\$572.00
	La clase se reúne cinco jueves por Zoom (10/2, 10/16, 10/30, 11/13, y 12/4) 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 341487									
	D. GLASCOCK					\$390.00	\$39.00	\$45.00		\$474.00
	Required: Student Petition. Corequisite: Take the following CWE-281-06.									
ECE-280ES	EXPERIENCIA LABORAL COOPERATIVA, 4 CREDITS									

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En este curso, los estudiantes completan 144 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

REM ESPAÑOL	ECE-280ES-01 347158 TH							6-7:50 PM		
	A. ECHEVARRIA					\$520.00	\$52.00	\$45.00		\$617.00
	Requerido: petición del estudiante. La clase se reúne dos jueves por Zoom (10/2 y 10/30) de 6:00pm a 7:50pm.									

ECE-292ES PRACTICUM III, 4 CREDITS

Este curso se enfoca en la experiencia de trabajo de los estudiantes con varios entornos educacionales en salones de clases enfocadas directamente con la enseñanza y supervisión de niños desde el nacimiento hasta el kínder. Este curso permite a los estudiantes aplicar conocimientos y metodologías adquiridas en los cursos de educación infantil, y sean transferibles a las habilidades requeridas en un ambiente educacional entre 0 a 8 años de edad. Los seminarios obligatorios abarcan la revisión de los dominios del desarrollo, los ámbitos de aprendizaje, las experiencias reales en el salón de clases, resolución de problemas, desarrollo del plan de estudios, técnicas de evaluación y la orientación del aprendizaje y la conducta de los niños.

Prerequisites: ECE-291ES

REM ESPAÑOL	ECE-292ES-01 341496 F							6-8:50 PM		
	D. TORRADO					\$520.00	\$52.00	\$0.00		\$572.00
	Requerido: petición del estudiante. La clase se reúne cinco viernes por Zoom (10/3, 10/17, 10/31, 11/14, y 12/5) de 6:00PM a 8:50PM.									

ED-113 INSTRUCTIONAL STRATEGIES FOR LITERACY, 3 CREDITS

This course develops an understanding of how to integrate literacy concepts and skills into all subjects. Curriculum design and assessment for Reading and Language Arts concepts and skills are explored, identified, and developed. Emphasis is placed on the role of literacy in the development of the whole student and on linking CTE curriculum to the literacy skills needed for students to be successful in their field. Designed for CTE instructors, but anyone interested in teaching literacy across the curriculum would benefit from this class.

ONL	ED-113-01 341500									
	L. SCOTT					\$390.00	\$39.00	\$43.75		\$472.75
	Online textbook included in section fees.									

ED-114 INSTRUCTIONAL STRATEGIES FOR MATH, 3 CREDITS

This course develops an understanding of how to integrate math concepts and skills 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 bringing more math into their classrooms could 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 341503									
	K. SMUCKER					\$390.00	\$39.00	\$0.00		\$429.00

ED-130 COMPREHENSIVE CLASSROOM MANAGEMENT, 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 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	341507				
	L. SCOTT		\$390.00	\$39.00	\$43.75	\$472.75
	Online textbook included in section fees.					

ED-216 FOUNDATIONS OF TEACHING & EDUCATION, 4 CREDITS

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

OC	ED-216-01	341509 TTH			10-11:50 AM	
	L. SCOTT		\$520.00	\$52.00	\$43.75	\$615.75
	Online textbook included in section fees.					

ONL	ED-216-02	341512				
	L. SCOTT		\$520.00	\$52.00	\$43.75	\$615.75
	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	341514				
	M. HELZERMAN		\$390.00	\$39.00	\$0.00	\$429.00

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	341516				
	B. KING		\$520.00	\$52.00	\$0.00	\$572.00

ED-258 CULTURALLY RESPONSIVE TEACHING & EDUCATION, 3 CREDITS

Explores historical and systemic inequities in U.S. society and how they impact students, schools, and communities. Provides an overview of the ways in which educators can select culturally appropriate pedagogy, materials, and curriculum in order to serve the needs of an increasingly diverse U.S. educational system. Applies this knowledge in creating classrooms and schools where all students, families, and communities are valued, belong, and thrive.

ONL	ED-258-01	347157				
	T. GOWDY		\$390.00	\$39.00	\$0.00	\$429.00

Educational Focus Area

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EFA-101J INTRODUCTION TO THE SOCIAL SCIENCES, HUMAN SERVICES AND CRIMINAL JUSTICE, 2 CREDITS

Introduces career options and educational pathways in the fields of the Social Sciences, Human Services and Criminal Justice. Explores the history of and current methods and issues in these three areas of learning and service. Students will gain an understanding of academic and career options and get a taste of what further study will look like in each of these three areas and how they relate to one another.

ONL NCT	EFA-101J-01	340977				
	J. LOVELESS		\$260.00	\$26.00	\$0.00	\$286.00

EFA-101S INTRODUCTION TO STEM, 2 CREDITS

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.

REM	EFA-101S-01	340978 TTH			2-2:50 PM	
	E. LEE		\$260.00	\$26.00	\$0.00	\$286.00

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	341587 MW			4:30 -5:20 PM	
	B. PALACIOS		\$130.00	\$13.00	\$43.50	\$186.50

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	341591 MW			5:30 -7:20 PM	
	J. KUEBLER		\$260.00	\$26.00	\$87.00	\$373.00

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	341594 MW			12-3:50 PM	
	M. FARRELL		\$520.00	\$52.00	\$174.00	\$746.00

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

Course Listing

2025/FA

Course No	Course Title, Credits					
	Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Total
OC NCT	EET-139-01 M. TIZO	341598 TH		\$260.00	\$26.00	\$373.00

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

OC	EET-157-01 B. PALACIOS	341600 MW		\$390.00	\$39.00	\$559.50
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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 J. TRAVER	341604 MW		\$390.00	\$39.00	\$559.50
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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 M. FARRELL	341606 T		\$260.00	\$26.00	\$373.00
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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 M. FARRELL	341910 TH		\$260.00	\$26.00	\$373.00
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SM-280 ELECTRONICS & MICROELECTRONICS/CWE, 1-6 CREDITS

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

Corequisites: CWE-281

ONL NCT	SM-280-01 C. CONNORS	341911		\$780.00	\$78.00	\$255.00
Required: Student Petition. Corequisite: Take the following CWE-281-06.						

Emergency Medical Technology

EMT-101 EMERGENCY MEDICAL TECHNICIAN PART I, 6 CREDITS

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

Course No	Course Title, Credits					
	Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Total
Required: Acceptance into the current EMT cohort						
Prerequisites: EMT-105 with a C or better						
Prerequisites: MTH-060 with a C or better or placement in MTH-065						
Prerequisites: WRD-098 with a C or better or placement in WR-121Z						

HAR HYB	EMT-101-01 T. SAWZAK	340770 MWF		\$780.00	\$78.00	\$400.00
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 T. SAWZAK	340771		\$390.00	\$39.00	\$0.00
ONL	EMT-105-02 T. SAWZAK	340772		\$390.00	\$39.00	\$0.00

Engineering

ENGR-111 INTRODUCTION TO ENGINEERING, 3 CREDITS

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

Prerequisite or Corequisite: MTH-111Z or higher

OC	ENGR-111-01 E. LEE	341608 MW		\$390.00	\$39.00	\$10.00
OC	ENGR-111-02 E. LEE	341611 TTH		\$390.00	\$39.00	\$10.00

ENGR-112 ENGINEERING PROGRAMMING, 3 CREDITS

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

Prerequisite or Corequisite: MTH-112Z or higher

OC	ENGR-112-01 E. LEE	341613 MW		\$390.00	\$39.00	\$0.00
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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 E. LEE	341617 MW		\$520.00	\$52.00	\$20.00
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Campus Locations:
HAR: Harmony Community Campus
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Distance Education Notification:
ONL: Online Only
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Other Coding Translations:
TBA: To be arranged: contact department first class
VAR: Variable credit class

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

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
Instructor	Tuition	Fee	Crs. Fee			
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	341619 T			9-11:50 AM	
	M. FARRELL	\$520.00	\$52.00	\$52.00		\$624.00
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	341621 TH			9-11:50 AM	
	M. FARRELL	\$0.00	\$0.00	\$0.00		\$0.00

English for Speakers of Other Languages

ESOL-012 BEGINNING ESOL, 0 CREDIT

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

OC LCT	ESOL-012-01	340984 TTH			9-11:50 AM	
	T. NIKOLOPOULOS	\$0.00	\$0.00	\$60.00		\$60.00
	Required: Student Petition.					
HAR LCT	ESOL-012-06	340987 TTH			6-8:50 PM	
	K. STECKMEST	\$0.00	\$0.00	\$60.00		\$60.00
	Required: Student Petition.					
HAR LCT	ESOL-012-07	340988 TTH			6-8:50 PM	
	M. SHORTINO	\$0.00	\$0.00	\$60.00		\$60.00
	Required: Student Petition.					
HAR LCT	ESOL-012-08	340990 TTH			6-8:50 PM	
	K. HOLLOWAY	\$0.00	\$0.00	\$60.00		\$60.00
	Required: Student Petition.					

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

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

OC NCT	ESOL-015-01	340992 MW			9-11:50 AM	
	J. RUEDA	\$0.00	\$0.00	\$65.00		\$65.00
	Required: Student Petition.					
HAR NCT	ESOL-015-06	340996 MW			6-8:50 PM	
	J. STENSETH	\$0.00	\$0.00	\$65.00		\$65.00
	Required: Student Petition.					
HAR NCT	ESOL-015-07	340998 MW			6-8:50 PM	
	TBA	\$0.00	\$0.00	\$65.00		\$65.00
	Required: Student Petition.					

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
Instructor	Tuition	Fee	Crs. Fee			
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	341000 TTH			10:30 -11:50 AM	
	A. FRANZONI	\$0.00	\$0.00	\$35.00		\$35.00
	Required: Student Petition.					
HAR NCT	ESOL-020-06	341004 TTH			7:30 -8:50 PM	
	A. FRANZONI	\$0.00	\$0.00	\$35.00		\$35.00
	Required: Student Petition.					
HAR NCT	ESOL-020-07	341006 TTH			7:30 -8:50 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	341007 TTH			6-7:20 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	341009 MW			9-11:50 AM	
	T. NIKOLOPOULOS	\$0.00	\$0.00	\$60.00		\$60.00
	Required: Student Petition.					
HAR LCT	ESOL-024-06	341011 MW			6-8:50 PM	
	K. HOLLOWAY	\$0.00	\$0.00	\$60.00		\$60.00
	Required: Student Petition.					
HAR LCT	ESOL-024-07	341014 MW			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	341016 TTH			10:30 -11:50 AM	
	J. RUEDA	\$0.00	\$0.00	\$30.00		\$30.00
	Required: Student Petition.					
HAR LCT	ESOL-030-06	341017 TTH			7:30 -8:50 PM	
	S. MUNRO	\$0.00	\$0.00	\$30.00		\$30.00
	Required: Student Petition.					

ESOL-031 INTERMEDIATE GRAMMAR B, 0 CREDIT

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

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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
HAR LCT	ESOL-031-06 345230 TTH I. FERGUSON Required: Student Petition.					\$0.00	\$0.00	7:30 -8:50 PM	\$30.00	\$30.00

ESOL-032 INTERMEDIATE CONVERSATION 1, 0 CREDIT

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

OC LCT	ESOL-032-01 341021 TTH S. CAISSE Required: Student Petition.					\$0.00	\$0.00	9-10:20 AM	\$30.00	\$30.00
HAR LCT	ESOL-032-06 341025 TTH S. CAISSE Required: Student Petition.					\$0.00	\$0.00	6-7:20 PM	\$30.00	\$30.00

ESOL-034 INTERMEDIATE READING & WRITING, 0 CREDIT

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

OC LCT	ESOL-034-01 341027 MW S. CAISSE Required: Student Petition.					\$0.00	\$0.00	9-11:50 AM	\$60.00	\$60.00
HAR LCT	ESOL-034-06 341030 MW L. NARDONE Required: Student Petition.					\$0.00	\$0.00	6-8:50 PM	\$60.00	\$60.00

ESOL-042 UPPER INTERMEDIATE CONVERSATION 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.

OC LCT	ESOL-042-01 341032 TTH A. FRANZONI Required: Student Petition.					\$0.00	\$0.00	9-10:20 AM	\$30.00	\$30.00
HAR LCT	ESOL-042-06 341035 TTH S. MUNRO Required: Student Petition.					\$0.00	\$0.00	6-7:20 PM	\$30.00	\$30.00
HAR LCT	ESOL-042-07 341036 TTH A. FRANZONI Required: Student Petition.					\$0.00	\$0.00	6-7:20 PM	\$30.00	\$30.00

ESOL-044 UPPER INTERMEDIATE READING & WRITING, 0 CREDIT

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

OC NCT	ESOL-044-01 341038 MW L. JOYCE Required: Student Petition.					\$0.00	\$0.00	9-11:50 AM	\$70.00	\$70.00
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ESOL-046 EDITING FOR BETTER WRITING, 0 CREDIT

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

OC LCT	ESOL-046-01 341040 MW K. LONG Required: Student Petition.					\$0.00	\$0.00	9-11:50 AM	\$60.00	\$60.00
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HAR LCT	ESOL-046-06 341042 MW TBA Required: Student Petition.					\$0.00	\$0.00	6-8:50 PM	\$60.00	\$60.00
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ESOL-050 ADVANCED GRAMMAR A, 0 CREDIT

One of a three-part series. English language learners study and practice compound sentences, complex sentences with adverb clauses, transitions, and passive voice in written and spoken English. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 3 and 4. Required: Student Petition.

OC LCT	ESOL-050-01 345232 TTH K. LONG Required: Student Petition.					\$0.00	\$0.00	10:30 -11:50 AM	\$30.00	\$30.00
HAR LCT	ESOL-050-06 345231 TTH S. CAISSE Required: Student Petition.					\$0.00	\$0.00	7:30 -8:50 PM	\$30.00	\$30.00

ESOL-052 ADVANCED COMMUNICATION SKILLS 1, 0 CREDIT

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-052-01 341043 TTH J. RUEDA Required: Student Petition.					\$0.00	\$0.00	9-10:20 AM	\$30.00	\$30.00
HAR LCT	ESOL-052-06 341046 TTH I. FERGUSON Required: Student Petition.					\$0.00	\$0.00	6-7:20 PM	\$30.00	\$30.00

ESOL-054 ADVANCED READING & WRITING, 0 CREDIT

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

HAR NCT	ESOL-054-06 341050 MW I. FERGUSON Required: Student Petition.					\$0.00	\$0.00	6-8:50 PM	\$70.00	\$70.00
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ESOL-060 VOCABULARY BUILDING 1, 0 CREDIT

One of a two-part series. English language learners develop their passive and active vocabularies through numerous exposures to selected words from the General Service List and the Academic Word List, and develop their vocabulary acquisition skills. Required: Student Petition.

OC LCT	ESOL-060-01 341055 MW S. CAISSE Required: Student Petition.					\$0.00	\$0.00	12:30 -1:50 PM	\$30.00	\$30.00
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ESOL-062 ESOL READING, 0 CREDIT

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

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

Course No	Course Title, Credits		Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
	Section No	Instructor								
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.										
OC NCT	ESOL-062-01	345335 TTH						12:30 -1:50 PM		
	K. LONG					\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.									
ESOL-082 ASSESS/EVALUATE NEW STUDENTS, 0 CREDIT										
New students in the ESOL program receive information about classes offered, departmental and college policies, college services available, campus facilities, accessing student portal and email, student responsibilities, and community resources. Students are tested to determine their language levels and class placement. Students select courses with a faculty advisor. This course is used administratively to identify new students in the ESOL department. Required: Student Petition.										
ONL NCT	ESOL-082-01	341060								
	L. JOYCE					\$0.00	\$0.00	\$0.00	\$0.00	
	Required: Student Petition.									
ONL NCT	ESOL-082-06	341062								
	L. JOYCE					\$0.00	\$0.00	\$0.00	\$0.00	
	Required: Student Petition.									
ESOL-083 EDUCATIONAL PLANNING FOR RETURNING STUDENTS, 0 CREDIT										
Designed for returning students in the ESOL program at CCC. Students meet with faculty advisors to review their progress, revisit their goals, choose next term's classes, and learn how to transition to other educational and training opportunities at the college and in other community programs. This course is used administratively to identify returning students in the ESOL department. Required: Student Petition.										
ONL NCT	ESOL-083-01	341064								
	L. JOYCE					\$0.00	\$0.00	\$0.00	\$0.00	
	Required: Student Petition.									
ONL NCT	ESOL-083-06	341066								
	L. JOYCE					\$0.00	\$0.00	\$0.00	\$0.00	
	Required: Student Petition.									
PIE-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	PIE-020-01	341069 TTH						10:30 -11:50 AM		
	A. FRANZONI					\$390.00	\$39.00	\$240.00	\$669.00	
	Required: Student Petition.									
PIE-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	PIE-024-01	341070 MW						9-11:50 AM		
	T. NIKOLOPOULOS					\$780.00	\$78.00	\$480.00	\$1,338.00	
	Required: Student Petition.									
PIE-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	PIE-030-01	341072 TTH						10:30 -11:50 AM		
	J. RUEDA					\$390.00	\$39.00	\$240.00	\$669.00	
	Required: Student Petition.									
PIE-032 INTERMEDIATE CONVERSATION 1, 0 CREDIT										
English language learners study and practice speaking and listening skills and strategies in structured tasks to improve fluency in the contexts of school, work, family and community. One of a 2-part series. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 2 and 3. Required: Student Petition.										
OC	PIE-032-01	341074 TTH						9-10:20 AM		
	S. CAISSE					\$390.00	\$39.00	\$240.00	\$669.00	
	Required: Student Petition.									
PIE-034 INTERMEDIATE READING & WRITING, 0 CREDIT										
English language learners read a variety of texts to improve reading skills, and write paragraphs focused on a single topic developed with logically organized facts and details for the contexts of school, work, family and community. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 2 and 3. Required: Student Petition.										
OC	PIE-034-01	341076 MW						9-11:50 AM		
	S. CAISSE					\$780.00	\$78.00	\$480.00	\$1,338.00	
	Required: Student Petition.									
PIE-042 UPPER INTERMEDIATE CONVERSATION 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.										
OC	PIE-042-01	341077 TTH						9-10:20 AM		
	A. FRANZONI					\$390.00	\$39.00	\$240.00	\$669.00	
	Required: Student Petition.									
PIE-044 UPPER INTERMEDIATE READING & WRITING, 0 CREDIT										
English language learners read a variety of texts to improve reading skills, and produce basic multi-paragraph texts for the contexts of school, work, family and community. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 3 and 4. Required: Student Petition.										
OC NCT	PIE-044-01	341078 MW						9-11:50 AM		
	L. JOYCE					\$780.00	\$78.00	\$480.00	\$1,338.00	
	Required: Student Petition.									
PIE-046 EDITING FOR BETTER WRITING, 0 CREDIT										
English language learners improve their writing through editing. They also engage in extended reading to provide a context for writing. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 2, 3 and 4. Required: Student Petition.										
OC	PIE-046-01	341080 MW						9-11:50 AM		
	K. LONG					\$780.00	\$78.00	\$480.00	\$1,338.00	
	Required: Student Petition.									
PIE-050 ADVANCED GRAMMAR A, 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
One of a three-part series. English language learners study and practice compound sentences, complex sentences with adverb clauses, transitions, and passive voice in written and spoken English. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 3 and 4. 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	PIE-050-01 K. LONG	345233 TTH	\$390.00	\$39.00	10:30 -11:50 AM	\$669.00	Recommended Prerequisites: WRD-098 or placement in WR-121Z						
	Required: Student Petition.						ONL	ENG-107-01 A. WARREN	341543	\$520.00	\$52.00	\$0.00	\$572.00
PIE-052 ADVANCED COMMUNICATION SKILLS 1, 0 CREDIT							ENG-116 INTRODUCTION TO LITERATURE: COMICS, 4 CREDITS						
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.							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							Recommended Prerequisites: WRD-098 or placement in WR-121Z						
oc	PIE-052-01 J. RUEDA	341082 TTH	\$390.00	\$39.00	9-10:20 AM	\$669.00	ONL	ENG-116-01 T. DODGE	341546	\$520.00	\$52.00	\$0.00	\$572.00
Required: Student Petition.							ENG-121 MYSTERY FICTION, 4 CREDITS						
PIE-060 VOCABULARY BUILDING 1, 0 CREDIT							An introduction to detective/mystery fiction. Students will read, discuss, and analyze short stories by writers such as Edgar Allan Poe, Agatha Christie, and Walter Mosley.						
One of a two-part series. English language learners develop their passive and active vocabularies through numerous exposures to selected words from the General Service List and the Academic Word List, and develop their vocabulary acquisition skills. Required: Student Petition.							Recommended Prerequisites: WRD-098 or placement in WR-121Z						
oc	PIE-060-01 S. CAISSE	341088 MW	\$390.00	\$39.00	12:30 -1:50 PM	\$669.00	ONL	ENG-121-01 J. DAVIS	341548	\$520.00	\$52.00	\$0.00	\$572.00
Required: Student Petition.							ENG-194 INTRODUCTION TO FILM, 4 CREDITS						
PIE-062 ESOL READING, 0 CREDIT							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.						
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.							Recommended Prerequisites: WRD-098 or placement in WR-121Z						
oc NCT	PIE-062-01 K. LONG	345336 TTH	\$390.00	\$39.00	12:30 -1:50 PM	\$669.00	oc	ENG-194-01 R. DAVIS	341550 TTH	\$520.00	\$52.00	\$0.00	\$572.00
Required: Student Petition.							ENG-226 POPULAR LITERATURE, 4 CREDITS						
Focuses on genre work within prose, film, comics and/or videogames that is specific in theme and targeted towards a more mass audience than traditional literary work. Genres might include but not necessarily be limited to horror, fantasy, science fiction, romance, and/or westerns. May be repeated for up to 8 credits.							Recommended Prerequisites: WRD-098 or placement in WR-121Z						
Recommended Prerequisites: WRD-098 or placement in WR-121Z							oc	ENG-226-01 C. BURNELL	345319 TTH	\$520.00	\$52.00	\$0.00	\$572.00
							Focus area on fantasy fiction.						
ENG-241 NORSE MYTHOLOGY, 4 CREDITS							Explores Norse mythology and its cultural, social, and literary significance; views Norse mythology in its historical and geographic positions and in the larger context of Western literary traditions; introduces theoretical approaches to mythology and basic literary elements and terminology; considers how studying myth affects and influences reading other works; connects Norse myth to medieval European and modern fantasy literature.						
Recommended Prerequisites: WRD-098 or placement in WR-121Z							Recommended Prerequisites: WRD-098 or placement in WR-121Z						
oc	ENG-241-01 J. BRYANT-TRERISE	345322 MW	\$520.00	\$52.00	1-2:50 PM	\$572.00	oc	ENG-241-01 J. BRYANT-TRERISE	345322 MW	\$520.00	\$52.00	\$0.00	\$572.00

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HYB: In-person plus online work

Other Coding Translations:
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VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text
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Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	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 345321		A. WARREN			\$520.00	\$52.00	\$0.00		\$572.00
ENG-280	ENGLISH/CWE, 2-6 CREDITS									
	Cooperative work experience. Provides students with on-the-job experience in the field of English studies. Required: Student Petition.									
	Corequisites: CWE-281									
ONL LCT	ENG-280-01 341558		A. COFFEY			\$780.00	\$78.00	\$45.00		\$903.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.									
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 LCT	ENG-297-01 341565		A. COFFEY			\$130.00	\$13.00	\$0.00		\$143.00
	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 341623 TTH									
	E. CAVALIERE	\$520.00	\$52.00	\$55.00		\$627.00				
	Corequisite: Take 1 of the following ESR-171L-01, ESR-171L-03, ESR-171L-04, ESR-171L-02.									
ONL	ESR-171-02 341627									
	E. CAVALIERE	\$520.00	\$52.00	\$55.00		\$627.00				
	This section has an in-person lab requirement. Corequisite: Take 1 of the following ESR-171L-01, ESR-171L-03, ESR-171L-04, ESR-171L-02.									
ONL	ESR-171-03 345193									
	E. CAVALIERE	\$520.00	\$52.00	\$55.00		\$627.00				
	Corequisite: Take 1 of the following ESR-171L-01, ESR-171L-02, ESR-171L-03, ESR-171L-04.									

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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
ONL	ESR-171-15 341629		S. BALLEW			\$520.00	\$52.00	\$55.00		\$627.00
	This section has an in-person lab requirement. Corequisite: Take the following ESR-171L-15.									
ESR-171L	INTRODUCTION TO ENVIRONMENTAL SCIENCE LAB, 0 CREDIT									
	Lab course for ESR-171									
	Corequisites: ESR-171									
OC	ESR-171L-01 341631 T									
	E. CAVALIERE	\$0.00	\$0.00	\$0.00		\$0.00				
	Corequisite: Take 1 of the following ESR-171-01, ESR-171-02, ESR-171-03.									
OC	ESR-171L-02 345194 W									
	D. HUFFORD	\$0.00	\$0.00	\$0.00		\$0.00				
	Corequisite: Take 1 of the following ESR-171-01, ESR-171-02, ESR-171-03.									
OC	ESR-171L-03 341633 W									
	E. CAVALIERE	\$0.00	\$0.00	\$0.00		\$0.00				
	Corequisite: Take 1 of the following ESR-171-01, ESR-171-02, ESR-171-03.									
OC	ESR-171L-04 341636 TH									
	E. CAVALIERE	\$0.00	\$0.00	\$0.00		\$0.00				
	Corequisite: Take 1 of the following ESR-171-01, ESR-171-02, ESR-171-03.									
HAR	ESR-171L-15 341638 TH									
	S. BALLEW	\$0.00	\$0.00	\$0.00		\$0.00				
	Corequisite: Take the following ESR-171-15.									

Ethnic Studies

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 NCT	ES-211-01 341570									
	L. MARTINEZ	\$520.00	\$52.00	\$0.00		\$572.00				

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.

ONL	HDF-225-01 341719									
	D. GLASCOCK	\$390.00	\$39.00	\$0.00		\$429.00				
	This section is an accelerated 5-week online course that runs between 11/3/25 - 12/07/25.									

HDF-225ES DESARROLLO DE LAS ETAPAS PRENATAL, INFANTES Y DE NIÑOS PEQUEÑOS, 4 CREDITS

2025/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	
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	341725	W	6-7:50 PM									
P. ALVARADO \$520.00 \$52.00 \$0.00 \$572.00 La clase se reúne seis miércoles por Zoom (10/1, 10/15, 10/29, 11/19, 12/3, y 12/10) de 6:00 PM to 7:50PM.													
HDF-260	UNDERSTANDING CHILD ABUSE AND NEGLECT, 3 CREDITS												
In this course, students will receive an overview of child abuse and neglect. Students will examine the types and causes of abuse, abused children, abusive parents, treatment, education and prevention, and resources available to assist children and families. An emphasis is placed on intervention and mandatory reporting, as well as risks and outcomes. This course discusses the investigation process of child welfare and forensic interviewing of abused children. Students will also learn about the signs and symptoms of abuse and how trauma impacts an individual's health across a lifetime.													
ONL	HDF-260-01	341732											
C. BAKER \$390.00 \$39.00 \$0.00 \$429.00													
Fire Science (Wildland)													
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	341237	M	9-11:50 AM									
G. CLINE \$390.00 \$39.00 \$0.00 \$429.00													
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	341240	W	9-11:50 AM									
G. CLINE \$130.00 \$13.00 \$110.00 \$253.00													
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/L-180)													
OC	FRP-110-01	345303	SU	8:30 -5:00 PM									
J. GULLEY \$130.00 \$13.00 \$25.00 \$168.00 Meets: 10/19.													
FRP-130	INTRODUCTION TO WILDLAND FIREFIGHTING (S-130/S-190/S-110/ICS-100/IS-700/L-180), 3 CREDITS												
This course provides an introduction to wildland fire behavior, wildland firefighting safety and wildland firefighting techniques. The course covers the basic skills necessary to fight wildland fires under close supervision. NWCG Courses completed in class include S-130, S-190, S-110, L-180, IS-100 and IS-700. This course also includes the Work Capacity Test (WCT) which is needed for employment. Completion of firefighter field day is required to pass this course.													
OC LCT	FRP-130-01	344982	T	10-4:00 PM									
J. GULLEY \$390.00 \$39.00 \$50.00 \$479.00													
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/L-180)													
OC	FRP-131-01	345469	THF	8:30 -5:00 PM									
J. GULLEY \$130.00 \$13.00 \$20.00 \$163.00 Meets: 12/4-12/5.													
FRP-200	BASIC INCIDENT COMMAND SYSTEM (I-100, I-200, IS-700, IS-800), 4 CREDITS												
Introduces the knowledge and skills to function efficiently during an incident or event within the Incident Command System (ICS). National Incident Management System (NIMS) and the National Response Framework (NRF) provide a consistent nationwide template to enable all government, private-sector, and nongovernmental organizations to work together during domestic incidents.													
OC HYB	FRP-200-01	341243	W	11-12:50 PM									
J. GULLEY \$520.00 \$52.00 \$0.00 \$572.00													
FRP-212	WILDFIRE POWER SAWS (S-212), 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/L-180), FRP-250													
Required: Students must be at least 18 years of age. Must have current first aid, CPR and AED certification													
OC	FRP-212-01	344985	MFSSU	8-5:00 PM									
J. GULLEY \$390.00 \$39.00 \$225.00 \$654.00 Required: Student Petition. Meets: 11/7-11/10.													
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	341247	M	12-3:00 PM									
M. ADAMS \$390.00 \$39.00 \$25.00 \$454.00 There is a field day, date TBD, that is mandatory to complete the class.													
FRP-245	WILDERNESS III: WEATHER OF THE NORTHWEST, 2 CREDITS												

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Course Listing

2025/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	

This course covers the basics of weather forecasting, especially as it relates to the weather of the Northwest.

OC	FRP-245-01	341250 S		10-12:00 PM		
		S		10-3:00 PM		
	J. SALTENBERGER	\$260.00	\$26.00	\$20.00	\$306.00	
	Meets: 10/11-12/13. 4-hour class with a 1-hour lunch break on 10/25 & 12/6.					

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	345302 F		5-8:30 PM		
		SSU		8:30 -5:00 PM		
	S. POET	\$520.00	\$52.00	\$50.00	\$622.00	
	Meets: 11/7-11/16.					

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	341252 TTH		8-9:50 AM		
	J. GULLEY	\$260.00	\$26.00	\$0.00	\$286.00	

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 NCT	FYE-101-01	341582 MW		9-9:50 AM		
	D. GREEN	\$260.00	\$26.00	\$12.00	\$298.00	
OC NCT	FYE-101-02	341589 MW		10-10:50 AM		
	T. STAUFFER	\$260.00	\$26.00	\$12.00	\$298.00	
	DEXTER					
OC NCT	FYE-101-03	341595 MW		11-11:50 AM		
	L. MARTINEZ	\$260.00	\$26.00	\$12.00	\$298.00	
OC NCT	FYE-101-04	341599 M		1-2:50 PM		
	L. MARTINEZ	\$260.00	\$26.00	\$12.00	\$298.00	
OC NCT	FYE-101-05	341602 T		1-2:50 PM		
	C. SIMS	\$260.00	\$26.00	\$12.00	\$298.00	
OC NCT	FYE-101-06	341605 W		1-2:50 PM		
	J. CORTES	\$260.00	\$26.00	\$12.00	\$298.00	

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	FYE-101-07	341609 TTH		9-9:50 AM		
	T. BOYLE- GALESTIANZ	\$260.00	\$26.00	\$12.00	\$298.00	

OC NCT	FYE-101-08	341612 TTH		11-11:50 AM		
	M. BAKER	\$260.00	\$26.00	\$12.00	\$298.00	

OC NCT	FYE-101-09	341615 TTH		3-3:50 PM		
	TBA	\$260.00	\$26.00	\$12.00	\$298.00	

OC NCT	FYE-101-10	341618 TH		1-2:50 PM		
	C. SIMS	\$260.00	\$26.00	\$12.00	\$298.00	

ONL NCT	FYE-101-11	341622				
	J. CORTES	\$260.00	\$26.00	\$12.00	\$298.00	

ONL NCT	FYE-101-12	341625				
	D. WOOD	\$260.00	\$26.00	\$12.00	\$298.00	

ONL NCT	FYE-101-13	341628				
	T. BOYLE- GALESTIANZ	\$260.00	\$26.00	\$12.00	\$298.00	

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 NCT ESPAÑOL	FYE-101ES-01	341642 M		6-7:50 PM		
	S. DIAZ-ZAVALA	\$260.00	\$26.00	\$12.00	\$298.00	

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	340773				
	T. SCOLLARD	\$390.00	\$39.00	\$92.16	\$521.16	
	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	340774				
	T. SCOLLARD	\$520.00	\$52.00	\$130.00	\$702.00	
	Online textbook included in section fees.					

ONL	FN-225-02	340775				
	J. PAVLINAC	\$520.00	\$52.00	\$130.00	\$702.00	
	Online textbook included in section fees.					

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ONL	FN-225-03 340776 J. PAVLINAC Online textbook included in section fees.				\$520.00	\$52.00	\$130.00		\$702.00

General Development Education (GED)

GED Classes offered Days and Evenings

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

GED-011 GED IN ESPAÑOL, 0 CREDIT

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

REM LCT ESPAÑOL	GED-011-01 341652 MW			5:30 -7:50 PM					
	A. ARISTIZABAL	\$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 341657 TTH			6-8:50 PM					
	C. SANCHEZ	\$0.00	\$0.00	\$50.00	\$50.00				
	Requerido: petición del estudiante. For registration information contact Camilo Sanchez at 503-594-3029 or register at 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. Required: Student Petition.

OC LCT	GED-015-17 341663 MW			5:30 -7:50 PM					
	A. SMITH	\$0.00	\$0.00	\$50.00	\$50.00				
	A. WICKERT								
	Required: Student Petition.								
HAR HYB LCT	GED-015-67 341665 MW			10-11:50 AM					
	M. NICKAS	\$0.00	\$0.00	\$55.00	\$55.00				
	Required: Student Petition.								
ONL LCT	GED-015-68 341666								
	S. HATSWELL	\$0.00	\$0.00	\$55.00	\$55.00				
	Required: Student Petition.								
ONL LCT	GED-015-69 341668								
	L. NIELSON	\$0.00	\$0.00	\$55.00	\$55.00				
	Required: Student Petition.								
OC LCT	GED-015-80 341670 MTWTH			10-11:50 AM					
	J. NIELSON	\$0.00	\$0.00	\$55.00	\$55.00				
	Required: Student Petition.								

GED-049 LATINO GED & LIFE SKILLS, 0 CREDIT

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

HAR LCT ESPAÑOL	GED-049-03 341676 MW			9-11:50 AM					
	C. SANCHEZ	\$0.00	\$0.00	\$50.00	\$50.00				
	Requerido: petición del estudiante. For registration information contact Camilo Sanchez at 503-594-3029 or register at first class.								
HAR LCT ESPAÑOL	GED-049-04 341679 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 341661 MW			10-11:20 AM					
	B. WALKER	\$520.00	\$52.00	\$50.00	\$622.00				

GS-104L EARTH SYSTEM SCIENCE LAB, 0 CREDIT

Lab course for GS-104

Corequisites: GS-104

oc	GS-104L-01 341662 M			1-3:50 PM					
	B. WALKER	\$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 341664								
	C. SHARON	\$520.00	\$52.00	\$25.00	\$597.00				
	Corequisite: Take the following GS-107L-40.								
ONL	GS-107-41 341667								
	C. SHARON	\$520.00	\$52.00	\$25.00	\$597.00				
	Corequisite: Take the following GS-107L-41.								

GS-107L ASTRONOMY LAB, 0 CREDIT

Lab course for GS-107

Corequisites: GS-107

ONL	GS-107L-40 341669								
	C. SHARON	\$0.00	\$0.00	\$0.00	\$0.00				
	Corequisite: Take the following GS-107-40.								

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	GS-107L-41 341671					
	C. SHARON	\$0.00	\$0.00	\$0.00	\$0.00	
	Corequisite: Take the following GS-107-41.					

Geographic Information Systems

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

GIS-101 MAPS AND GEOSPATIAL TECHNOLOGY, 4 CREDITS

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

ONL LCT	GIS-101-01 341257					
	A. ARMEN	\$520.00	\$52.00	\$30.00	\$602.00	

GIS-201 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS, 4 CREDITS

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

ONL LCT	GIS-201-01 341259					
	A. ARMEN	\$520.00	\$52.00	\$40.00	\$612.00	

Geography

GEO-100 INTRODUCTION TO PHYSICAL GEOGRAPHY, 4 CREDITS

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

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

ONL	GEO-100-01 341683					
	C. FELDMAN	\$520.00	\$52.00	\$101.32	\$673.32	
	Online textbook included in section fees.					

GEO-110 CULTURAL & HUMAN GEOGRAPHY, 4 CREDITS

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

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

ONL NCT	GEO-110-01 341684					
	C. FELDMAN	\$520.00	\$52.00	\$0.00	\$572.00	

GEO-130 INTRODUCTION TO ENVIRONMENTAL GEOGRAPHY, 4 CREDITS

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.

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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	
Recommended Prerequisites: WRD-090 or placement in WRD-098						
ONL	GEO-130-01 341685					
	A. ARMEN	\$520.00	\$52.00	\$117.50	\$689.50	
	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 341687					
	C. FELDMAN	\$780.00	\$78.00	\$45.00	\$903.00V	
	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 341640 MW					
	A. KOTASH	\$520.00	\$52.00	\$50.00	\$622.00	
	Corequisite: Take 1 of the following G-101L-01, G-101L-02.					
REM	G-101-02 341643 TTH					
	A. KOTASH	\$520.00	\$52.00	\$50.00	\$622.00	
	This class has an in-person lab requirement. Corequisite: Take 1 of the following G-101L-01, G-101L-02.					
REM	G-101-15 341645 T					
	J. WOODCOCK	\$520.00	\$52.00	\$50.00	\$622.00	
	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 341647 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 341649 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 341651 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.

Corequisites: G-201L

Prerequisites: WRD-090 or placement in WRD-098

Course Listing

2025/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	G-201-01 341653 MW A. KOTASH Corequisite: Take 1 of the following G-201L-01, G-201L-02.					\$520.00	\$52.00	10-11:20 AM	\$50.00	\$622.00
REM	G-201-02 341654 TTH A. KOTASH This section has an in-person lab requirement. Corequisite: Take 1 of the following G-201L-01, G-201L-02.					\$520.00	\$52.00	3-4:20 PM	\$50.00	\$622.00
REM	G-201-15 341655 T J. WOODCOCK This section has an in-person lab requirement. Corequisite: Take the following G-201L-15.					\$520.00	\$52.00	6-8:50 PM	\$50.00	\$622.00
G-201L GENERAL GEOLOGY LAB, 0 CREDIT Lab course for G-201 Corequisites: G-201										
OC LCT	G-201L-01 341656 T A. KOTASH Corequisite: Take 1 of the following G-201-01, G-201-02.					\$0.00	\$0.00	9-11:50 AM	\$0.00	\$0.00
OC LCT	G-201L-02 341658 W A. KOTASH Corequisite: Take 1 of the following G-201-01, G-201-02.					\$0.00	\$0.00	1-3:50 PM	\$0.00	\$0.00
HAR LCT	G-201L-15 341660 TH J. WOODCOCK Corequisite: Take the following G-201-15.					\$0.00	\$0.00	6-8:50 PM	\$0.00	\$0.00
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 340752 Y. SMITH					\$390.00	\$39.00		\$0.00	\$429.00
GRN-280 GERONTOLOGY/CWE, 2-6 CREDITS Cooperative work experience. Acquaint gerontology students with the roles and related activities of organizations serving the elderly. This course provides an opportunity to apply theories and techniques learned in the classroom. May be repeated for up to 6 credits. Required: Student Petition.										
Prerequisite or Corequisite: HS-170 Corequisites: HS-270										
HAR HYB LCT	GRN-280-01 340753 J. LOVELESS Required: Student Petition.					\$780.00	\$78.00		\$45.00	\$903.00V
Health										
HE-163 BODY & DRUGS I: INTRODUCTION TO ABUSE & ADDICTION, 3 CREDITS The first of a four-course sequence, this course examines the history of the use of addictive drugs, the definition of addiction, psychosocial and neurobiological causes of drug and behavioral addiction, addictive drug classifications, and the history of/introduction to addiction treatment, and access and utilize effective resources to improve and maintain mental and physical wellbeing.										
ONL	HE-163-01 341675 T. PANTAGES					\$390.00	\$39.00		\$0.00	\$429.00
ONL	HE-163-02 341677 T. PANTAGES					\$390.00	\$39.00		\$0.00	\$429.00
HE-164 BODY & DRUGS II: ALCOHOL, 3 CREDITS The second of a four-course offering. Covers beverage alcohol as a drug, the history of alcohol use/abuse, physiological and psychological effects of alcohol use on the user, and the impact of that use on those around the user and on society at large, access and utilize effective resources to improve and maintain mental and physical wellbeing. Prerequisites: HE-163										
ONL	HE-164-01 341678 T. PANTAGES					\$390.00	\$39.00		\$0.00	\$429.00
HE-201 PERSONAL TRAINING, 3 CREDITS Students will follow the curriculum for the National Council on Strength and Fitness (NCSF) Certified Personal Trainer certification. The course will guide students through the expectations, requirements, processes and knowledge to prepare to become a certified Personal Trainer through the NCSF. Through videos, lecture and self-study, students will be prepared to take the NCSF Certified Personal Training exam, which is offered through the NCSF and is not included in the course. Recommended Prerequisites: PE-240										
ONL	HE-201-01 341680 T. NELSON					\$390.00	\$39.00		\$0.00	\$429.00
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 341682 J. BUEL					\$390.00	\$39.00		\$0.00	\$429.00
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 341686 T. NELSON					\$390.00	\$39.00		\$0.00	\$429.00
HE-223 SPORTS NUTRITION, 3 CREDITS Examination of nutrition as it relates to the demands of exercise and competitive sport. Emphasis on the relationship of diet and exercise to optimal health and performance. This course can lead to a certification as a sports nutritionist through the NCSF.										
ONL	HE-223-01 341688 J. BUEL					\$390.00	\$39.00		\$0.00	\$429.00
HE-249 MENTAL HEALTH, 3 CREDITS Designed for each student to understand and improve their personal mental health. Teaches theories of mental health as well as practical strategies for improving one's level of mental health. Analyzes factors that may impede optimal mental health, again with practical solutions for minimizing/avoiding such factors.										
REM NCT	HE-249-01 341689 MW K. WOODS					\$390.00	\$39.00	1-2:20 PM	\$0.00	\$429.00
HE-250 PERSONAL HEALTH, 3 CREDITS										

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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
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.								HAR HYB	HP-100-01	345264 F				8-5:00 PM	
									S. COOPER			\$130.00	\$13.00	\$15.00	\$158.00
									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 11/14/2025 on the Harmony Campus. More information will be given in the first couple weeks of class.						
ONL	HE-250-01	341693													
	J. RHODEN			\$390.00	\$39.00	\$0.00	\$429.00								
ONL	HE-250-02	341697													
	J. RHODEN			\$390.00	\$39.00	\$0.00	\$429.00								
	Meets: 11/3-12/13.							HP-110	MEDICAL TERMINOLOGY. 4 CREDITS						

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

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

ONL	HE-252-01	341698	K. ARIZO		\$390.00	\$39.00	\$35.00	\$464.00
ONL	HE-252-03	341700	T. NELSON		\$390.00	\$39.00	\$35.00	\$464.00
ONL	HE-252-05	341701	K. WOODS		\$390.00	\$39.00	\$35.00	\$464.00

Health & Fitness**HPE-295 HEALTH & FITNESS FOR LIFE, 3 CREDITS**

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

Recommended: A completed physical by a doctor

ONL	HPE-295-01	341752	T. NELSON		\$390.00	\$39.00	\$30.00	\$459.00
ONL	HPE-295-02	341757	J. BUEL		\$390.00	\$39.00	\$30.00	\$459.00
ONL	HPE-295-03	341758	J. RHODEN		\$390.00	\$39.00	\$30.00	\$459.00

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

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

Recommended: Computer access with internet capabilities

Recommended Prerequisites: WRD-098

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	345267	W. HARTJE	\$520.00	\$52.00	\$156.75	\$728.75
			Online textbook included in section fees.				
ONL	HP-110-02	345266	S. DAVENPORT	\$520.00	\$52.00	\$156.75	\$728.75
			Online textbook included in section fees.				
ONL	HP-110-03	345268	T. BOYD	\$520.00	\$52.00	\$156.75	\$728.75
			Online textbook included in section fees.				
ONL	HP-110-04	345361	T. BOYD	\$520.00	\$52.00	\$156.75	\$728.75
			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	345262	S. DAVENPORT		\$390.00	\$39.00	\$0.00	\$429.00
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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 NCT	HST-101-01	341750 W						10-11:50 AM
	P. MCFARLAND		\$520.00	\$52.00	\$0.00		\$572.00	
ONL NCT	HST-101-02	341753	P. MCFARLAND		\$520.00	\$52.00	\$0.00	\$572.00

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	341754	P. MCFARLAND		\$520.00	\$52.00	\$0.00	\$572.00
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HST-137 HISTORY OF SCIENCE, MEDICINE, & TECHNOLOGY IN WESTERN CIVILIZATION, 4 CREDITS

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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	Tuition	Fee	Total	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Tuition	Fee	Total	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Tuition	Fee	Total	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Tuition	Fee	Total	
<p>Traces the major developments in western civilization in the fields of science, medicine and technology from ancient Greece to the present. Includes an examination of the biographies of prominent scientists, doctors and engineers.</p> <p>Recommended Prerequisites: WRD-090 or placement in WRD-098</p> <p>ONL LCT HST-137-01 341755 P. MCFARLAND \$520.00 \$52.00 \$0.00 \$572.00</p> <p>HST-201 HISTORY OF THE UNITED STATES, 4 CREDITS Covers the period in American history from first European contact through the Age of Jackson. Prerequisite or Corequisite: WRD-098 or placement in WR-121Z Recommended: Sequence of HST-201, HST-202, and HST-203 is taken in order</p> <p>OC HST-201-01 341756 MW 1-2:50 PM J. PARKER \$520.00 \$52.00 \$0.00 \$572.00</p> <p>ONL HST-201-02 341760 J. PARKER \$520.00 \$52.00 \$0.00 \$572.00</p> <p>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</p> <p>OC HST-280-01 341763 P. MCFARLAND \$780.00 \$78.00 \$45.00 \$903.00V Required: Student Petition. Corequisite: Take the following CWE-281-06.</p>																												<p>ONL NCT HOR-115-02 341709 E. ROBERTS \$130.00 \$13.00 \$15.00 \$158.00 Meets: Online 9/29-10/31.</p> <p>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.</p> <p>OC NCT HOR-118-01 341710 MW 3-4:50 PM G. LOEFFLER \$520.00 \$52.00 \$15.00 \$587.00</p> <p>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.</p> <p>OC NCT HOR-124-01 341712 W 8-11:50 AM D. ROSTAD \$390.00 \$39.00 \$75.00 \$504.00</p> <p>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.</p> <p>OC NCT HOR-130-01 341715 TH 8-11:50 AM F. KILDERS \$390.00 \$39.00 \$35.00 \$464.00</p> <p>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.</p> <p>OC HYB LCT HOR-212-01 341718 F 8-11:50 AM D. ROSTAD \$260.00 \$26.00 \$65.00 \$351.00 Meets: 10/3-10/31.</p> <p>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. Prerequisites: HOR-229 Recommended Prerequisites: CS-120 or comparable computer skills</p> <p>ONL NCT HOR-213-01 347174 TBA \$390.00 \$39.00 \$60.00 \$489.00 The course will utilize Vectorworks, a free design software available to students.</p> <p>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.</p>

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OC LCT	HOR-223-01 341720 MW C. KONIECZKA					\$520.00	\$52.00	1-2:50 PM	\$30.00	\$602.00
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 341722 TH A. CHASTAIN					\$390.00	\$39.00	1-4:50 PM	\$60.00	\$489.00
HOR-225 ARBORICULTURE I, 3 CREDITS Management of trees in residential, commercial, and urban landscapes. Follows course materials prepared by the International Society of Arboriculture (ISA). Topics covered include tree anatomy, selection, installation, response to damage, soil characteristics, pruning techniques and diagnosis of pest problems. Prepares student for HOR-260.										
OC HYB	HOR-225-01 341726 T E. ROBERTS					\$390.00	\$39.00	2-4:50 PM	\$25.00	\$454.00
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 341727 T F. KILDERS					\$520.00	\$52.00	8-11:50 AM	\$45.00	\$617.00
OC HYB NCT	HOR-226-02 341729 W M. PHILLIPS					\$520.00	\$52.00	6-8:30 PM	\$15.00	\$587.00
HOR-235 WEED IDENTIFICATION, 2 CREDITS Identification and life cycles of weeds commonly found in landscapes, nurseries, and farms.										
REM NCT	HOR-235-01 341730 T F. KILDERS					\$260.00	\$26.00	6-7:50 PM	\$20.00	\$306.00
Meets: Remote 9/30-10/28 on day and time listed, plus additional online hours.										
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.										
OC HYB LCT	HOR-236-01 341733 T E. ROBERTS					\$260.00	\$26.00	6-7:50 PM	\$40.00	\$326.00
Meets: In-person 11/4-12/2, plus additional online hours.										
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 341735 F D. ROSTAD					\$130.00	\$13.00	8-11:50 AM	\$50.00	\$193.00
Meets: 11/7-12/5.										
HOR-262 TREEWOR 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 341737 F E. ROBERTS					\$260.00	\$26.00	10-12:30 PM 1-4:30 PM	\$95.00	\$381.00
If you have arboriculture industry experience and wish to take this class, contact april.chastain@clackamas.edu.										
HOR-264 TREEWOR 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										
OC NCT	HOR-264-01 341739 F E. ROBERTS					\$260.00	\$26.00	10-12:30 PM 1-4:30 PM	\$95.00	\$381.00
If you have arboriculture industry experience and wish to take this class, contact april.chastain@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 341741 C. KONIECZKA					\$390.00	\$39.00		\$45.00	\$474.00
Required: Student Petition. Contact: chrisk@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 341745 C. KONIECZKA					\$780.00	\$78.00		\$45.00	\$903.00
Required: Student Petition. Contact: chrisk@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.										

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2025/FA

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Corequisites: CWE-281															
Required: Students are expected to work a minimum of 90 job site hours															
OC NCT	HOR-282-01 341748														
	C. KONIECZKA			\$390.00	\$39.00	\$45.00	\$474.00								
	Required: Student Petition. Contact: chrisk@clackamas.edu.														
	Corequisite: Take the following CWE-281-06.														
HOR-285 ORGANIC FARMING/CWE, 3 CREDITS															
Cooperative work experience. On-the-job experience working with an agricultural business/farm. Students are expected to work a minimum of 90 job site hours. May be repeated for up to 6 credits. Required: Student Petition.															
Corequisites: CWE-281															
Required: Students are expected to work a minimum of 90 job site hours															
OC NCT	HOR-285-01 341751														
	C. KONIECZKA			\$390.00	\$39.00	\$45.00	\$474.00								
	Required: Student Petition. Contact: chrisk@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- 342057 F														
	01														
	L. CERVANTES			\$0.00	\$0.00	\$0.00	\$0.00								
	Requerido: petición del estudiante. Meets: 12/5. Fee: \$80.														
	Eventbrite registration at https://bit.ly/horteventbrite Contact horticulture@clackamas.edu with questions.														
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- 342067 FS														
	01														
	K. MCCALED			\$0.00	\$0.00	\$0.00	\$0.00								
	Required: Student Petition. Two-day workshop on 11/7 & 11/8. Fee: \$160. Eventbrite registration at https://bit.ly/horteventbrite Contact Loretta Mills at lorettam@clackamas.edu with questions.														
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.															

OC	XHOR-C06A- 342074 F														
	01														
	G. COOKE		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00								
	Required: Student Petition. Meets: Nov 21. Fee \$40.														
	Eventbrite registration at https://bit.ly/horteventbrite Contact horticulture@clackamas.edu with questions.														

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 341734 TH														
	01														
	C. BAKER			\$390.00	\$39.00	\$0.00	\$429.00								
	This class meets every other Thursday (10/9, 10/23, 11/6, 11/20, 12/4) from 10:00AM to 11:50AM.														
ONL LCT	HS-100-02 341736														
	01														
	C. BAKER			\$390.00	\$39.00	\$0.00	\$429.00								

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 or HS-154															
Recommended Prerequisites: At least 30 credits of the Human Services program, including 6 credits from HS-100, HS-103, HS-154, HS-156, and HS-206															
ONL	HS-170-01 341738														
	01														
	J. LOVELESS			\$130.00	\$13.00	\$0.00	\$143.00								
	Required: Student Petition.														

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 341740														
	01														
	C. BAKER			\$390.00	\$39.00	\$0.00	\$429.00								

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															

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 341734 TH								
	C. BAKER					\$390.00	\$39.00	\$0.00	\$429.00
	This class meets every other Thursday (10/9, 10/23, 11/6, 11/20, 12/4) from 10:00AM to 11:50AM.								
ONL LCT	HS-100-02 341736								
	C. BAKER					\$390.00	\$39.00	\$0.00	\$429.00

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 or HS-154

Recommended Prerequisites: At least 30 credits of the Human Services program, including 6 credits from HS-100, HS-103, HS-154, HS-156, and HS-206

ONL	HS-170-01 341738								
	J. LOVELESS					\$130.00	\$13.00	\$0.00	\$143.00
	Required: Student Petition.								

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 341740								
	C. BAKER					\$390.00	\$39.00	\$0.00	\$429.00

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

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	Instructor	Tuition	Fee	Crs. Fee	Total	
OC HYB	HS-210-01	341742 T		1-2:50 PM		
	C. BAKER	\$390.00	\$39.00	\$0.00	\$429.00	
	This class meets every other Tuesday (10/7, 10/21, 11/4, 11/18, 12/2) from 1:00PM to 2:50PM.					

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	341744 T		10-11:50 AM		
	C. BAKER	\$260.00	\$26.00	\$0.00	\$286.00	
	This class meets every other Tuesday (10/7, 10/21, 11/4, 11/18, 12/2) from 10:00AM to 11:50AM.					

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	341746				
	J. LOVELESS	\$780.00	\$78.00	\$45.00	\$903.00V	
	Required: Student Petition.					

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	341747				
	J. LOVELESS	\$780.00	\$78.00	\$45.00	\$903.00V	
	Required: Student Petition.					

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	341749				
	J. LOVELESS	\$780.00	\$78.00	\$45.00	\$903.00V	
	Required: Student Petition.					

Industrial Maintenance Technology**IMT-104 READING SCHEMATICS AND SYMBOLS, 2 CREDITS**

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	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time		
	Instructor	Tuition	Fee	Crs. Fee	Total	
OC	IMT-104-01	341759 T		6:30 -8:20 PM		
	C. CONNORS	\$260.00	\$26.00	\$102.50	\$388.50	

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	341764 MW		9-11:50 AM		
	C. CONNORS	\$390.00	\$39.00	\$153.75	\$582.75	

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	340980 MW		10-11:50 AM		
	M. JONES	\$520.00	\$52.00	\$10.00	\$582.00	

J-215 COLLEGE NEWS: WRITING & PHOTOGRAPHY, 4 CREDITS

Students work as writers, photographers and editors on The Clackamas Print, the college's student-run news website, newspaper and social media sites. Students study and produce journalism stories and photos. In doing so, they learn different writing styles, photography rules, ethical standards of news gathering and the rights of a free press in a democracy. May be repeated for up to 8 credits.

Recommended Prerequisites: Placement in WR-121Z

OC	J-215-01	340981 MW		1-2:50 PM		
	M. JONES	\$520.00	\$52.00	\$10.00	\$582.00	

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	340983 T		10-11:50 AM		
	J. SONNENMAIR	\$520.00	\$52.00	\$10.00	\$582.00	
	Additional hours online.					

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

2025/FA

Course No							Course Title, Credits							Course No							Course Title, Credits						
Section No		Crs Reg.	Days (M,T,W,Th,F,S,SU)		Time	Total	Section No		Crs Reg.	Days (M,T,W,Th,F,S,SU)		Time	Total	Section No		Crs Reg.	Days (M,T,W,Th,F,S,SU)		Time	Total							
Instructor <td></td> <td colspan="2">Tuition</td> <td>Fee</td> <td>Crs. Fee</td> <td colspan="2">Instructor</td> <td></td> <td colspan="2">Tuition</td> <td>Fee</td> <td>Crs. Fee</td> <td>Total</td> <td colspan="2">Instructor</td> <td></td> <td colspan="2">Tuition</td> <td>Fee</td> <td>Crs. Fee</td> <td>Total</td>			Tuition		Fee	Crs. Fee	Instructor			Tuition		Fee	Crs. Fee	Total	Instructor			Tuition		Fee	Crs. Fee	Total					
REM NCT	J-221-01	340985	T		10-11:50 AM		OC	J-235-01	341001	MW		1-2:50 PM			OC	J-235-01	341001	MW		1-2:50 PM							
J. SONNENMAIR \$520.00 \$52.00 \$10.00 \$582.00							M. JONES \$520.00 \$52.00 \$0.00 \$572.00																				
Additional hours online.																											
J-225	INTERMEDIATE COLLEGE NEWS: WRITING & PHOTOGRAPHY, 4 CREDITS						J-280	JOURNALISM/CWE, 2-6 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.							Cooperative work experience. Provides the student with on-the-job experience and training related to journalism. Required: Student Petition.																				
Prerequisites: J-215							Corequisites: CWE-281																				
oc	J-225-01	340991	MW		1-2:50 PM		ONL NCT	J-280-01	341002						ONL NCT	J-280-01	341002										
M. JONES \$520.00 \$52.00 \$0.00 \$572.00							M. JONES \$780.00 \$78.00 \$45.00 \$903.00V							Required: Student Petition.													
J-226	INTRODUCTION TO COLLEGE NEWS: DESIGN & PRODUCTION, 4 CREDITS						J-280A	PUBLIC RELATIONS/CWE, 2-6 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.							Cooperative work experience. Provides the student with on-the-job experience and training related to public relations. Required: Student Petition.																				
Recommended Prerequisites: Placement in WR-121Z							Corequisites: CWE-281																				
oc	J-226-01	340993	T		1-4:50 PM		ONL NCT	J-280A-01	341012						ONL NCT	J-280A-01	341012										
M. JONES \$520.00 \$52.00 \$10.00 \$582.00							M. JONES \$780.00 \$78.00 \$45.00 \$903.00V							Required: Student Petition.													
J-227	INTERMEDIATE COLLEGE NEWS: DESIGN & PRODUCTION, 4 CREDITS						Library																				
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.							LIB-101 INTRODUCTION TO LIBRARY RESEARCH, 1 CREDIT																				
Prerequisites: J-226							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.																				
oc	J-227-01	340995	T		1-4:50 PM		ONL NCT	LIB-101-01	341767						ONL NCT	LIB-101-01	341767										
M. JONES \$520.00 \$52.00 \$0.00 \$572.00							TBA \$0.00 \$0.00 \$0.00 \$0.00							Meets: 9/29-11/29.													
J-228	ADVANCED COLLEGE NEWS: DESIGN & PRODUCTION, 4 CREDITS						ONL NCT	LIB-101-02	341768						ONL NCT	LIB-101-02	341768										
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.							TBA \$0.00 \$0.00 \$0.00 \$0.00							Meets: 9/29-11/29.													
Prerequisites: J-227							ONL NCT LIB-101-03 341770																				
oc	J-228-01	340997	T		1-4:50 PM		TBA \$0.00 \$0.00 \$0.00 \$0.00							Meets: 9/29-11/29.													
M. JONES \$520.00 \$52.00 \$0.00 \$572.00																											
J-235	ADVANCED COLLEGE NEWS: WRITING & PHOTOGRAPHY, 4 CREDITS						Machine Tool Technology																				
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.							MTT-111 MANUAL MACHINING I, 4 CREDITS																				
Prerequisites: J-225							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 Prerequisites: Placement in WR-121Z							Recommended Prerequisite or Corequisite: MFG-104 and MTH-050																				
oc	J-228-01	340997	T		1-4:50 PM		oc	MTT-111-01	341809	MW		8-11:50 AM			oc	MTT-111-01	341809	MW		8-11:50 AM							
M. JONES \$520.00 \$52.00 \$0.00 \$572.00							J. CARLSTON \$520.00 \$52.00 \$205.00 \$777.00							J. TRAVER													
J-235	ADVANCED COLLEGE NEWS: WRITING & PHOTOGRAPHY, 4 CREDITS						MTT-121	CNC I: SET-UP AND OPERATION, 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.							This is the first course in the CNC sequence. Students will learn basic skills including how to properly set-up and operate both CNC milling and turning centers. Students will also learn G & M codes related to basic machine set-up and operation. Designed for persons with little or no previous CNC experience.																				
Prerequisites: J-225							oc MTT-121-01 341813 TTH 8-11:50 AM																				
Recommended Prerequisites: Placement in WR-121Z							J. CARLSTON \$520.00 \$52.00 \$205.00 \$777.00																				
							oc MTT-121-02 341818 TTH 5-8:50 PM																				
							J. CARLSTON \$520.00 \$52.00 \$205.00 \$777.00																				

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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

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	341820 TTH			12-3:50 PM	
	C. LETTENMAIER	\$520.00	\$52.00	\$205.00		\$777.00

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	341821 MW			1-3:50 PM	
	C. LETTENMAIER	\$390.00	\$39.00	\$153.75		\$582.75

Manufacturing Technology

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

MFG-103 MACHINING FOR FABRICATION & MAINTENANCE, 3 CREDITS

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

Prerequisites: MTH-050 or higher

OC NCT	MFG-103-01	341772 TTH			12:30 -3:20 PM	
	J. CARLSTON	\$390.00	\$39.00	\$153.75		\$582.75

MFG-104 PRINT READING, 3 CREDITS

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

OC	MFG-104-01	341773 TTH			3:30 -4:50 PM	
	M. BABCOCK	\$390.00	\$39.00	\$153.75		\$582.75

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

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

OC	MFG-106-01	341775 M			4:30 -7:20 PM	
	M. BABCOCK	\$390.00	\$39.00	\$153.75		\$582.75

MFG-107 INDUSTRIAL SAFETY & FIRST AID, 3 CREDITS

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

OC HYB NCT	MFG-107-01	341778 F			1-3:50 PM	
	L. HILLYARD	\$390.00	\$39.00	\$153.75		\$582.75

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	341781 F			8-10:50 AM	
	A. ARISTIZABAL	\$390.00	\$39.00	\$153.75		\$582.75

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	341785 MW			8-9:20 AM	
	C. LETTENMAIER	\$130.00	\$13.00	\$51.25		\$194.25

Required: Student Petition.

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	341793 F			5-7:50 PM	
	B. KARM	\$390.00	\$39.00	\$153.75		\$582.75

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	341795 TTH			5-6:20 PM	
	C. CONNORS	\$390.00	\$39.00	\$153.75		\$582.75

MFG-221 MATERIALS SCIENCE, 3 CREDITS

Introduces metallurgy and material science. Extractive and physical metallurgy will be covered. Specific topics include heat treatment, materials analysis, the iron carbon phase diagram, composites, ceramics and industrial plastics.

Recommended Prerequisites: MTH-050

OC	MFG-221-01	341798 TTH			9-11:50 AM	
	M. BABCOCK	\$390.00	\$39.00	\$153.75		\$582.75

MFG-271 MASTERCAM MILL I, 4 CREDITS

Course Listing

2025/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 NCT	MFG-271-01 341802 TTH							4:30 -8:20 PM		
	C. LETTENMAIER					\$520.00	\$52.00		\$205.00	\$777.00

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

Cooperative work experience. Practical experience in the manufacturing trades. Coordination of instruction will occur with industry and the manufacturing and cooperative work departments. May be repeated for up to 6 credits. Required: Student Petition.

Corequisites: CWE-281

ONL NCT	MFG-280-01 341803									
	C. CONNORS					\$780.00	\$78.00		\$75.00	\$933.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.									

XMFG-0008 WORK SESSIONS: MAKERSPACE, 0 CREDIT

The de Asis Makerspace workshop where creative people from all walks of life can have access to the tools they will need to create prototypes, models and masterpieces. Participants will have the ability to use equipment ranging from basic woodworking machinery and 3-D printing to CNC milling, plasma and laser.

oc	XMFG-0008-01	342076 F						5-8:50 PM		
	C. CONNORS					\$0.00	\$0.00		\$0.00	\$0.00
oc	XMFG-0008-02	342078 F						5-8:50 PM		
	C. CONNORS					\$0.00	\$0.00		\$0.00	\$0.00
oc	XMFG-0008-03	342080 F						5-8:50 PM		
	C. CONNORS					\$0.00	\$0.00		\$0.00	\$0.00
oc	XMFG-0008-04	342082 F						5-8:50 PM		
	C. CONNORS					\$0.00	\$0.00		\$0.00	\$0.00
oc	XMFG-0008-05	342083 F						5-8:50 PM		
	C. CONNORS					\$0.00	\$0.00		\$0.00	\$0.00
oc	XMFG-0008-06	342084 F						5-8:50 PM		
	C. CONNORS					\$0.00	\$0.00		\$0.00	\$0.00
oc	XMFG-0008-07	342086 F						5-8:50 PM		
	C. CONNORS					\$0.00	\$0.00		\$0.00	\$0.00
oc	XMFG-0008-08	342087 F						5-8:50 PM		
	C. CONNORS					\$0.00	\$0.00		\$0.00	\$0.00
oc	XMFG-0008-09	342089 F						5-8:50 PM		
	C. CONNORS					\$0.00	\$0.00		\$0.00	\$0.00
oc	XMFG-0008-10	342091 F						5-8:50 PM		
	C. CONNORS					\$0.00	\$0.00		\$0.00	\$0.00

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.

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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
Prerequisites: MTH-010 with a C or better, or placement in MTH-020										
OC NCT	MTH-020-01 341777 TTH							10-11:50 AM		
	M. NICKAS					\$520.00	\$52.00		\$20.00	\$592.00
ONL NCT	MTH-020-02 341783									
	M. NICKAS					\$520.00	\$52.00		\$20.00	\$592.00
	Meets: 10/13-12/13.									

MTH-020ES FUNDAMENTOS DE ARITMÉTICA II, 4 CREDITS

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

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

HAR NCT ESPAÑOL	MTH-020ES-01 341786 TTH							10-11:50 AM		
	A. ARISTIZABAL					\$520.00	\$52.00		\$20.00	\$592.00
HAR NCT ESPAÑOL	MTH-020ES-01ASE 341787 TTH							10-11:50 AM		
	A. ARISTIZABAL					\$0.00	\$0.00		\$0.00	\$0.00
	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 341788 TTH							10-11:50 AM		
	M. PRICE					\$520.00	\$52.00		\$20.00	\$592.00
OC LCT	MTH-050-02 341791 MW							3-4:50 PM		
	A. ARISTIZABAL					\$520.00	\$52.00		\$20.00	\$592.00
OC LCT	MTH-050-04 341796 MW							10-11:50 AM		
	M. PRICE					\$520.00	\$52.00		\$20.00	\$592.00

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 341799 F							5-8:50 PM		
	A. ARISTIZABAL					\$520.00	\$52.00		\$20.00	\$592.00
REM NCT ESPAÑOL	MTH-050ES-02 345338 S							8-11:50 AM		
	A. ARISTIZABAL					\$520.00	\$52.00		\$20.00	\$592.00

MTH-060 ALGEBRA I, 4 CREDITS

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

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

OC NCT	MTH-060-01 341801 TTH							1-2:50 PM		
	E. MEUSER					\$520.00	\$52.00		\$20.00	\$592.00
OC NCT	MTH-060-02 345198 TTH							10-11:50 AM		
	E. KELLY					\$520.00	\$52.00		\$20.00	\$592.00

Course Listing

2025/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 NCT	MTH-060-15	341811	MW					9-10:50 AM		
	A. ARISTIZABAL					\$520.00	\$52.00	\$20.00		\$592.00
HAR NCT	MTH-060-16	341815	TTH					6-7:50 PM		
	B. WEBBER					\$520.00	\$52.00	\$20.00		\$592.00

MTH-065 ALGEBRA II, 4 CREDITS

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

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

OC NCT	MTH-065-01	341819	MW					1-2:50 PM		
	A. HALL					\$520.00	\$52.00	\$20.00		\$592.00
OC NCT	MTH-065-02	341824	MW					3-4:50 PM		
	J. KUOHA					\$520.00	\$52.00	\$20.00		\$592.00
OC NCT	MTH-065-03	341827	TTH					10-11:50 AM		
	J. KUOHA					\$520.00	\$52.00	\$20.00		\$592.00
OC NCT	MTH-065-04	345201	TTH					1-2:50 PM		
	A. HALL					\$520.00	\$52.00	\$20.00		\$592.00
HAR NCT	MTH-065-15	341830	MW					9-10:50 AM		
	A. ARISTIZABAL					\$520.00	\$52.00	\$20.00		\$592.00
HAR NCT	MTH-065-16	341831	TTH					6-7:50 PM		
	B. WEBBER					\$520.00	\$52.00	\$20.00		\$592.00

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	341804	M					5-5:50 PM		
	M. LAFORCE					\$130.00	\$13.00	\$10.00		\$153.00

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	341805	T					5-5:50 PM		
	J. NURMI					\$130.00	\$13.00	\$10.00		\$153.00

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	341807	W					2-2:50 PM		
	G. CARR					\$130.00	\$13.00	\$10.00		\$153.00

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

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-095-01	341832	MW					10-11:50 AM		
	S. PRUYN					\$520.00	\$52.00	\$20.00		\$592.00
OC NCT	MTH-095-02	341836	MW					1-2:50 PM		
	S. PRUYN					\$520.00	\$52.00	\$20.00		\$592.00
OC NCT	MTH-095-03	341837	TTH					10-11:50 AM		
	J. HEVEL					\$520.00	\$52.00	\$20.00		\$592.00
OC NCT	MTH-095-04	341838	TTH					1-2:50 PM		
	M. CHASE					\$520.00	\$52.00	\$20.00		\$592.00
OC NCT	MTH-095-05	341840	MW					3-4:50 PM		
	K. PHILLIPS					\$520.00	\$52.00	\$20.00		\$592.00
OC NCT	MTH-095-06	345207	TTH					8-9:50 AM		
	M. CHASE					\$520.00	\$52.00	\$20.00		\$592.00
HAR NCT	MTH-095-15	341844	TTH					6-7:50 PM		
	M. HUNTER					\$520.00	\$52.00	\$20.00		\$592.00

MTH-098 COLLEGE MATH FOUNDATIONS, 4 CREDITS

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	341847	TTH					10-11:20 AM		
	K. MERCER					\$520.00	\$52.00	\$20.00		\$592.00
OC HYB NCT	MTH-098-02	341851	MW					10-11:20 AM		
	M. YANNOTTA					\$520.00	\$52.00	\$20.00		\$592.00
OC HYB NCT	MTH-098-03	345210	MW					1-2:20 PM		
	S. VALDES					\$520.00	\$52.00	\$20.00		\$592.00
ONL NCT	MTH-098-10	341854								
	M. JOSI					\$520.00	\$52.00	\$20.00		\$592.00
ONL NCT	MTH-098-11	341856								
	M. JOSI					\$520.00	\$52.00	\$20.00		\$592.00

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	341858	TTH					10-11:20 AM		
	E. MEUSER					\$520.00	\$52.00	\$20.00		\$592.00
OC HYB NCT	MTH-105Z-02	341862	TTH					3-4:20 PM		
	S. VALDES					\$520.00	\$52.00	\$20.00		\$592.00
OC HYB NCT	MTH-105Z-03	341864	TTH					1-2:20 PM		
	S. VALDES					\$520.00	\$52.00	\$20.00		\$592.00
OC HYB NCT	MTH-105Z-04	341865	MW					1-2:20 PM		
	J. KUOHA					\$520.00	\$52.00	\$20.00		\$592.00
ONL NCT	MTH-105Z-10	341866								
	M. YANNOTTA					\$520.00	\$52.00	\$20.00		\$592.00

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ESPAÑOL: Enseñado en español

LCT: Low-Cost Text
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Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
ONL NCT	MTH-105Z-11 341867		M. YANNOTTA			\$520.00	\$52.00	\$20.00		\$592.00
ONL NCT	MTH-105Z-12 341868		J. KUOHA			\$520.00	\$52.00	\$20.00		\$592.00
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.										
Prerequisites: MTH-095 with a C or better, or placement in MTH-111Z										
Recommended Prerequisites: WRD-098 or placement in WR-121Z										
OC NCT	MTH-111Z-01 341870 TTH		F. CARTER			\$520.00	\$52.00	\$20.00		\$592.00
OC NCT	MTH-111Z-02 341875 MW		F. CARTER			\$520.00	\$52.00	\$20.00		\$592.00
OC NCT	MTH-111Z-03 341876 TTH		B. WEBBER			\$520.00	\$52.00	\$20.00		\$592.00
OC NCT	MTH-111Z-04 341878 MW		K. PHILLIPS			\$520.00	\$52.00	\$20.00		\$592.00
OC HYB NCT	MTH-111Z-10 341880 TBA		F. CARTER			\$520.00	\$52.00	\$20.00		\$592.00
This is an online section that meets for in-person orientation and testing dates only.										
HAR NCT	MTH-111Z-15 341884 TTH		C. WARNER			\$520.00	\$52.00	\$20.00		\$592.00
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 341885 TTH		K. AMREIN			\$520.00	\$52.00	\$20.00		\$592.00
OC NCT	MTH-112Z-02 341890 TTH		K. AMREIN			\$520.00	\$52.00	\$20.00		\$592.00
OC NCT	MTH-112Z-03 345209 MW		M. HAUGEN			\$520.00	\$52.00	\$20.00		\$592.00
OC NCT	MTH-112Z-04 345212 MW		B. WEBBER			\$520.00	\$52.00	\$20.00		\$592.00
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 placement in MTH-111Z										
Recommended Prerequisites: WRD-098 or placement in WR-121Z										
OC NCT	MTH-211-01 341896 TTH		E. KELLY			\$520.00	\$52.00	\$20.00		\$592.00
MTH-251Z DIFFERENTIAL CALCULUS, 4 CREDITS										
This course explores limits, continuity, derivatives, and their applications for real-valued functions of a single variable. These topics will be explored graphically, numerically, and symbolically in real-life applications. This course emphasizes abstraction, problem-solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of technology.										
Prerequisites: MTH-112Z with a C or better, or placement in MTH-251Z										
Recommended Prerequisites: WRD-098 or placement in WR-121Z										
OC NCT	MTH-251Z-01 341906 MW		K. PHILLIPS			\$520.00	\$52.00	\$20.00		\$592.00
OC NCT	MTH-251Z-02 341912 TTH		M. PRICE			\$520.00	\$52.00	\$20.00		\$592.00
OC NCT	MTH-251Z-03 345213 MW		M. PRICE			\$520.00	\$52.00	\$20.00		\$592.00
MTH-252Z INTEGRAL CALCULUS, 4 CREDITS										
This course explores Riemann sums, definite integrals, and indefinite integrals for real-valued functions of a single variable. These topics will be explored graphically, numerically, and symbolically in real-life applications. This course emphasizes abstraction, problem-solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of technology.										
Prerequisites: MTH-251Z with a C or better										
Recommended Prerequisites: WRD-098 or placement in WR-121Z										
OC NCT	MTH-252Z-01 341914 TTH		M. PARTNOF			\$520.00	\$52.00	\$20.00		\$592.00
OC NCT	MTH-252Z-02 341918 MW		M. PARTNOF			\$520.00	\$52.00	\$20.00		\$592.00
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 NCT	MTH-254-01 341921 MW		A. HALL			\$650.00	\$65.00	\$20.00		\$735.00

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-231 & BI-232 & BI-233

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 340777 TH		S. DAVENPORT			\$520.00	\$52.00	\$152.00		\$724.00
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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.

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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

Prerequisites: BI-120, or BI-231 & BI-232 & BI-233

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	340778				
	S. PARKER		\$390.00	\$39.00	\$25.00	\$454.00

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-231 & BI-232 & BI-233

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	340779 T			9-11:50 AM	
	S. DAVENPORT		\$130.00	\$13.00	\$100.00	\$243.00
	S. PARKER					
HAR	MA-152L-02	340780 TH			9-11:50 AM	
	S. DAVENPORT		\$130.00	\$13.00	\$100.00	\$243.00
	S. PARKER					

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-231 & BI-232 & BI-233

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	340781 T			1-2:50 PM	
	S. DAVENPORT		\$520.00	\$52.00	\$40.00	\$612.00

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-231 & BI-232 & BI-233

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	340782 W			9-10:50 AM	
	S. PARKER		\$260.00	\$26.00	\$0.00	\$286.00

Music

MUP-102 WIND ENSEMBLE, 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

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	340817 TTH			3-4:30 PM	
	L. CAMPBELL		\$130.00	\$13.00	\$0.00	\$143.00

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	340818 M			12-12:50 PM	
	C. DOGGETT		\$130.00	\$13.00	\$0.00	\$143.00
	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	340819 MW			3-4:30 PM	
	L. CAMPBELL		\$130.00	\$13.00	\$0.00	\$143.00

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	340820 TTH			3-4:50 PM	
	K. HOLLINGSWORTH		\$260.00	\$26.00	\$52.00	\$338.00
	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.					

MUP-125 ADVANCED VOCAL ENSEMBLE, 2 CREDITS

An advanced vocal performance ensemble open by audition only. Open to majors and students with vocal experience, sight-reading ability. AVE will travel to perform and a minimum three-term commitment is highly encouraged.

OC LCT	MUP-125-01	340821 MW			3-4:50 PM	
	K. HOLLINGSWORTH		\$260.00	\$26.00	\$52.00	\$338.00
	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.					

MUP-141 COLLEGE ORCHESTRA, 1 CREDIT

Campus Locations:

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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
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 340822 TBA		L. CAMPBELL			\$130.00	\$13.00	\$0.00		\$143.00
Required: Student Petition.										
MUP-150 CONTEMPORARY MUSIC ENSEMBLE, 2 CREDITS										
This course is a performance ensemble open to all musicians who wish to play pop, rock, popular music. May be repeated for up to 12 credits.										
Required: Pass proficiency audition										
OC NCT	MUP-150-01 340823 MW		K. DEITZ			\$260.00	\$26.00	\$50.00		\$336.00
K. HOLLINGSWORTH										
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.										
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 340824 TH		D. TUTMARK			\$130.00	\$13.00	\$85.00		\$228.00
Guitar Ensemble.										
OC NCT	MUP-158-02 340825 TBA		G. HARRIS			\$130.00	\$13.00	\$85.00		\$228.00
Saxophone Quartet.										
OC NCT	MUP-158-03 340826 TBA		TBA			\$130.00	\$13.00	\$85.00		\$228.00
Brass Quintet.										
OC NCT	MUP-158-04 340827 TBA		TBA			\$130.00	\$13.00	\$85.00		\$228.00
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 340886 TTH		L. CAMPBELL			\$130.00	\$13.00	\$0.00		\$143.00
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										
OC NCT	MUP-204-01 340888 M		C. DOGGETT			\$130.00	\$13.00	\$0.00		\$143.00
Required: 1 additional hour per week TBA.										
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 340892 MW		L. CAMPBELL			\$130.00	\$13.00	\$0.00		\$143.00
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 340894 TTH		K. HOLLINGSWORTH			\$260.00	\$26.00	\$52.00		\$338.00
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.										
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 340896 MW		K. HOLLINGSWORTH			\$260.00	\$26.00	\$52.00		\$338.00
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.										
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 340897 TBA		L. CAMPBELL			\$130.00	\$13.00	\$0.00		\$143.00
Required: Student Petition.										
MUS-101 MUSIC FUNDAMENTALS, 3 CREDITS										
Introduction to fundamentals of reading and writing music. Designed for non-majors or majors needing substantial preparation for MUS-111.										
ONL NCT	MUS-101-01 340971		J. HEDBERG			\$390.00	\$39.00	\$10.00		\$439.00
MUS-102 APPLIED MUSIC FUNDAMENTALS, 3 CREDITS										

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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	
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.							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.						
OC NCT	MUS-102-01	340974	T		10-11:20 AM								
			TH		10-11:20 AM								
	K. HOLLINGSWORTH	\$390.00	\$39.00	\$10.00		\$439.00							
MUS-105 MUSIC APPRECIATION, 3 CREDITS							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						
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: MTH-095 or placement in MTH-111Z; WRD-098 or placement in WR-121Z						
ONL NCT	MUS-105-01	340976					OC NCT	MUS-111-01	340999	TTH		10-11:20 AM	
	J. HEDBERG	\$390.00	\$39.00	\$0.00		\$429.00		R. OLASON	\$390.00	\$39.00	\$0.00		\$429.00
MUS-106 AUDIO RECORDING AT HOME, 1 CREDIT							MUS-111L MUSIC NOTATION SOFTWARE I, 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.							Introduces students to Finale (music notation software) on Macintosh computers.						
OC NCT	MUS-106-01	340979	F		6:30 -8:50 PM		OC NCT	MUS-111L-01	341003	M		10-11:50 AM	
			S		9-5:50 PM			D. FLESCHNER	\$130.00	\$13.00	\$44.00		\$187.00
	B. ROSE	\$130.00	\$13.00	\$99.00		\$242.00	MUS-114 AURAL SKILLS I, 2 CREDITS						
	Meets: 10/24 & 10/25.						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.						
MUS-107 INTRODUCTION TO AUDIO RECORDING I, 3 CREDITS							Corequisites: MUS-111						
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-114-01	341005	TTH		1-1:50 PM	
OC LCT	MUS-107-01	340982	M		6:30 -9:20 PM			R. OLASON	\$260.00	\$26.00	\$0.00		\$286.00
	D. BADSTUBNER	\$390.00	\$39.00	\$99.00		\$528.00	MUS-127 KEYBOARD SKILLS I, 2 CREDITS						
OC LCT	MUS-107-02	340986	M		1-3:50 PM		Develops basic keyboard skills required for study of tonal harmony and various musical activities such as vocal and instrumental rehearsals, music education and composition.						
	D. BADSTUBNER	\$390.00	\$39.00	\$99.00		\$528.00	Corequisites: MUS-111, MUS-111L, MUS-114						
MUS-108 INTRODUCTION TO AUDIO RECORDING II, 3 CREDITS							Recommended: Some experience in reading treble and bass clef, or MUS-131, MUS-132, or MUS-133 with a C or better						
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.							OC NCT	MUS-127-01	341008	TTH		2-2:50 PM	
								R. OLASON	\$260.00	\$26.00	\$10.00		\$296.00
Prerequisites: MUS-107							MUS-131 GROUP PIANO: PIANO FOR PLEASURE, 1 CREDIT						
OC LCT	MUS-108-01	340989	T		6:30 -9:20 PM		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.						
	D. BADSTUBNER	\$390.00	\$39.00	\$99.00		\$528.00	OC LCT	MUS-131-01	341010	TTH		9-9:50 AM	
MUS-109 INTRODUCTION TO AUDIO RECORDING III, 3 CREDITS								T. STOJANOVIC	\$130.00	\$13.00	\$85.00		\$228.00
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.							MUS-137 GROUP GUITAR I, 1 CREDIT						
Prerequisites: MUS-108							For beginning to intermediate players. Covers finger picking, lead guitar, rock and popular styles, music reading, and music theory. Students provide own instrument.						
OC LCT	MUS-109-01	340994	T		6:30 -9:20 PM		OC NCT	MUS-137-01	341015	TH		10-11:50 AM	
	D. BADSTUBNER	\$390.00	\$39.00	\$99.00		\$528.00		D. TUTMARK	\$130.00	\$13.00	\$85.00		\$228.00
MUS-111 MUSIC THEORY I, 3 CREDITS							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	341022					ONL NCT	MUS-141-01	341022				
	D. FLESCHNER	\$390.00	\$39.00	\$0.00		\$429.00		D. FLESCHNER	\$390.00	\$39.00	\$0.00		\$429.00

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2025/FA

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Instructor		Tuition	Fee	Crs. Fee	Total	

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	341023 T		1-3:50 PM		
	A. HAAK	\$390.00	\$39.00	\$99.00	\$528.00	

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	340737 F		6:30 -8:50 PM		
	B. ROSE	\$130.00	\$13.00	\$99.00	\$242.00	
	Meets: 10/17 & 10/18.					

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	341034 W		6:30 -9:20 PM		
	D. BADSTUBNER	\$390.00	\$39.00	\$99.00	\$528.00	

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	341037 TH		12-1:00 PM		
	L. CAMPBELL	\$0.00	\$0.00	\$0.00	\$0.00	
	Required: Music major meeting 10/2 room N119 12-1 pm.					

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	341039 W		12-12:50 PM		
	J. ISRAELS	\$130.00	\$13.00	\$0.00	\$143.00	
	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	341049 MW		10-11:50 AM		
	K. DEITZ	\$520.00	\$52.00	\$0.00	\$572.00	
	Required: Attendance at three concert field trips TBA.					
ONL NCT	MUS-206-02	341054				
	J. HEDBERG	\$520.00	\$52.00	\$0.00	\$572.00	

MUS-207 ADVANCED AUDIO RECORDING & MIXING I: RECORDING TECHNIQUES, 3 CREDITS

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

This course 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	345179 TH		6:30 -9:20 PM		
	D. BADSTUBNER	\$390.00	\$39.00	\$0.00	\$429.00	

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 NCT	MUS-211-01	341057 MW		10-11:20 AM		
	R. OLASON	\$390.00	\$39.00	\$269.00	\$698.00	

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 NCT	MUS-214-01	341059 MW		2-2:50 PM		
	R. OLASON	\$260.00	\$26.00	\$85.00	\$371.00	

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-103, MUS-109, MUS-113L, and MUP-150

OC NCT	MUS-218-01	341063 M		12-12:50 PM		
	K. HOLLINGSWORTH	\$130.00	\$13.00	\$0.00	\$143.00	

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 NCT	MUS-224-01	341065 MW		1-1:50 PM		
	R. OLASON	\$260.00	\$26.00	\$85.00	\$371.00	

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.

Prerequisites: MUS-144

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OC NCT	MUS-242-01 M. BAIRD	345180 T		\$390.00	\$39.00	6:30 -9:20 PM \$0.00	\$429.00	OC NCT	MUP-100-04 J. ISRAELS	340786 TBA		\$130.00	\$13.00	\$225.00	\$368.00
MUS-247 SOUND FOR MEDIA, 3 CREDITS								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.							
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.								OC NCT	MUP-100-05 B. MICHAEL	340787 TBA		\$130.00	\$13.00	\$225.00	\$368.00
Recommended: Experience using a DAW (Digital Audio Workstation) or video editing software								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.							
OC NCT	MUS-247-01 B. ROSE	340738 W		\$390.00	\$39.00	3-5:50 PM \$0.00	\$429.00	OC NCT	MUP-100-06 C. AVERILL	340788 TBA		\$130.00	\$13.00	\$225.00	\$368.00
MUS-280 MUSIC/CWE, 2-6 CREDITS								Required: Student Petition. Cello Lessons.							
Cooperative work experience. Provides students with on-the-job work experience in the field of music. Required: Student Petition.								OC NCT	MUP-100-07 K. DEITZ	340789 TBA		\$130.00	\$13.00	\$225.00	\$368.00
Corequisites: CWE-281								Required: Student Petition. Bass Lessons.							
Prerequisites: MUS-107, MUS-140, and MUS-142								OC NCT	MUP-100-08 D. TUTMARK	340790 TBA		\$130.00	\$13.00	\$225.00	\$368.00
ONL NCT	MUS-280-01 C. DOGGETT	341068		\$780.00	\$78.00	\$144.00	\$1,002.00V	OC NCT	MUP-100-09 A. CSIKOS	340791 TBA		\$130.00	\$13.00	\$225.00	\$368.00
Required: Student Petition. Corequisite: Take the following CWE-281-06.								Required: Student Petition. Guitar Lessons.							
ONL NCT	MUS-280-02 G. HARRIS	341071		\$780.00	\$78.00	\$144.00	\$1,002.00V	OC NCT	MUP-100-10 G. HARRIS	340792 TBA		\$130.00	\$13.00	\$225.00	\$368.00
Required: Student Petition. Corequisite: Take the following CWE-281-06.								Required: Student Petition. Saxophone Lessons.							
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 L. CLINE	341105 M		\$0.00	\$0.00	6:30 -9:20 PM \$0.00	\$0.00	OC NCT	MUP-100-11 J. KLAUSE	340793 TBA		\$130.00	\$13.00	\$225.00	\$368.00
Music: Individual Lessons - Non-Music Majors								Required: Student Petition. Trumpet Lessons.							
MUP-100 INDIVIDUAL LESSONS: NON-MUSIC MAJORS, 1 CREDIT								OC NCT	MUP-100-12 C. DOGGETT	340794 TBA		\$130.00	\$13.00	\$225.00	\$368.00
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.								Required: Student Petition. Percussion & Drum Set Lessons.							
OC NCT	MUP-100-01 K. POLITZER	340783 TBA		\$130.00	\$13.00	\$225.00	\$368.00	OC NCT	MUP-100-13 S. TIEDEMANN	340795 TBA		\$130.00	\$13.00	\$225.00	\$368.00
Required: Student Petition. Jazz Piano Lessons.								Required: Student Petition. Flute Lessons.							
OC NCT	MUP-100-02 Y. MIYAMA	340784 TBA		\$130.00	\$13.00	\$225.00	\$368.00	OC NCT	MUP-100-14 T. STOJANOVIC	340796 TBA		\$130.00	\$13.00	\$225.00	\$368.00
Required: Student Petition. Piano Lessons.								Required: Student Petition. Piano Lessons.							
OC NCT	MUP-100-03 D. FLESCHNER	340785 TBA		\$130.00	\$13.00	\$225.00	\$368.00	OC NCT	MUP-100-15 C. LEE	340797 TBA		\$130.00	\$13.00	\$225.00	\$368.00
Required: Student Petition. Rock, Blues, and Pop Piano Lessons.								Required: Student Petition. Oboe Lessons.							
OC NCT	MUP-100-04 J. ISRAELS	340786 TBA		\$130.00	\$13.00	\$225.00	\$368.00	OC NCT	MUP-100-16 B. GARDINER	340798 TBA		\$130.00	\$13.00	\$225.00	\$368.00
Required: Student Petition. Jazz Piano Lessons.								Required: Student Petition. Percussion Lessons.							
OC NCT	MUP-100-05 Y. MIYAMA	340787 TBA		\$130.00	\$13.00	\$225.00	\$368.00	OC NCT	MUP-100-17 L. CAMPBELL	340799 TBA		\$130.00	\$13.00	\$225.00	\$368.00
Required: Student Petition. Piano Lessons.								Required: Student Petition.							
OC NCT	MUP-100-06 C. AVERILL	340788 TBA		\$130.00	\$13.00	\$225.00	\$368.00	OC NCT	MUP-100-21 K. POLITZER	340800 TBA		\$260.00	\$26.00	\$450.00	\$736.00
Required: Student Petition. Saxophone Lessons.								Required: Student Petition. Jazz Piano Lessons.							
OC NCT	MUP-100-07 K. DEITZ	340789 TBA		\$130.00	\$13.00	\$225.00	\$368.00	OC NCT	MUP-100-22 Y. MIYAMA	340801 TBA		\$260.00	\$26.00	\$450.00	\$736.00
Required: Student Petition. Bass Lessons.								Required: Student Petition. Piano Lessons.							
OC NCT	MUP-100-08 D. TUTMARK	340790 TBA		\$130.00	\$13.00	\$225.00	\$368.00	OC NCT	MUP-100-23 D. FLESCHNER	340802 TBA		\$260.00	\$26.00	\$450.00	\$736.00
Required: Student Petition. Guitar Lessons.								Required: Student Petition. Rock, Blues, and Pop Piano Lessons.							
OC NCT	MUP-100-09 A. CSIKOS	340791 TBA		\$130.00	\$13.00	\$225.00	\$368.00	OC NCT	MUP-100-24 J. ISRAELS	340803 TBA		\$260.00	\$26.00	\$450.00	\$736.00
Required: Student Petition. Guitar Lessons.															

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OC NCT	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. MUP-100-25 340804 TBA B. MICHAEL \$260.00 \$26.00 \$450.00 \$736.00 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. MUP-100-26 340805 TBA C. AVERILL \$260.00 \$26.00 \$450.00 \$736.00 Required: Student Petition. Cello Lessons. MUP-100-27 340806 TBA K. DEITZ \$260.00 \$26.00 \$450.00 \$736.00 Required: Student Petition. Bass Lessons. MUP-100-28 340807 TBA D. TUTMARK \$260.00 \$26.00 \$450.00 \$736.00 Required: Student Petition. Guitar Lessons. MUP-100-29 340808 TBA A. CSIKOS \$260.00 \$26.00 \$450.00 \$736.00 Required: Student Petition. Guitar Lessons. MUP-100-30 340809 TBA G. HARRIS \$260.00 \$26.00 \$450.00 \$736.00 Required: Student Petition. Saxophone Lessons. MUP-100-31 340810 TBA J. KLAUSE \$260.00 \$26.00 \$450.00 \$736.00 Required: Student Petition. Trumpet Lessons. MUP-100-32 340811 TBA C. DOGGETT \$260.00 \$26.00 \$450.00 \$736.00 Required: Student Petition. Percussion & Drum Set Lessons. MUP-100-33 340812 TBA S. TIEDEMANN \$260.00 \$26.00 \$450.00 \$736.00 Required: Student Petition. Flute Lessons. MUP-100-34 340813 TBA T. STOJANOVIC \$260.00 \$26.00 \$450.00 \$736.00 Required: Student Petition. Piano Lessons. MUP-100-35 340814 TBA C. LEE \$260.00 \$26.00 \$450.00 \$736.00 Required: Student Petition. Oboe Lessons. MUP-100-36 340815 TBA B. GARDINER \$260.00 \$26.00 \$450.00 \$736.00 Required: Student Petition. Percussion Lessons. MUP-100-37 340816 TBA L. CAMPBELL \$260.00 \$26.00 \$450.00 \$736.00 Required: Student Petition.									
OC NCT	MUP-171-02 340830 TBA T. STOJANOVIC \$260.00 \$26.00 \$450.00 \$736.00 Required: Student Petition.									
	MUP-171J INDIVIDUAL LESSONS: JAZZ PIANO, 2 CREDITS Required: College-level performance ability									
OC NCT	MUP-171J-01 340831 TBA K. POLITZER \$260.00 \$26.00 \$450.00 \$736.00 Required: Student Petition.									
	MUP-171R INDIVIDUAL LESSONS: ROCK, BLUES, POP PIANO, 2 CREDITS Required: College-level performance ability									
OC NCT	MUP-171R-01 340832 TBA D. FLESCNER \$260.00 \$26.00 \$450.00 \$736.00 Required: Student Petition.									
	MUP-172 INDIVIDUAL LESSONS: ORGAN, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189									
OC NCT	MUP-172-01 340833 TBA J. HOLLAND \$260.00 \$26.00 \$450.00 \$736.00 Required: Student Petition.									
	MUP-174 INDIVIDUAL LESSONS: VOICE, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189									
OC NCT	MUP-174-01 340834 TBA J. ISRAELS \$260.00 \$26.00 \$450.00 \$736.00 Required: Student Petition. 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.									
OC NCT	MUP-174-02 340835 TBA B. MICHAEL \$260.00 \$26.00 \$450.00 \$736.00 Required: Student Petition. 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.									
	MUP-174J INDIVIDUAL LESSONS: JAZZ VOICE, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189									
OC NCT	MUP-174J-01 340836 TBA J. ISRAELS \$260.00 \$26.00 \$450.00 \$736.00 Required: Student Petition. 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.									
OC NCT	MUP-174J-02 340837 TBA B. MICHAEL \$260.00 \$26.00 \$450.00 \$736.00 Required: Student Petition. 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.									
	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 340829 TBA Y. MIYAMA \$260.00 \$26.00 \$450.00 \$736.00 Required: Student Petition.									
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Required: College-level performance ability						
OC NCT	MUP-174R-01 340838 TBA J. ISRAELS Required: Student Petition. 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.		\$260.00	\$26.00	\$450.00	\$736.00
OC NCT	MUP-174R-02 340839 TBA B. MICHAEL Required: Student Petition. 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.		\$260.00	\$26.00	\$450.00	\$736.00
MUP-175 INDIVIDUAL LESSONS: VIOLIN, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189						
OC NCT	MUP-175-01 340840 TBA TBA Required: Student Petition.		\$260.00	\$26.00	\$450.00	\$736.00
MUP-176 INDIVIDUAL LESSONS: VIOLA, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189						
OC NCT	MUP-176-01 340841 TBA H. OSEAS Required: Student Petition.		\$260.00	\$26.00	\$450.00	\$736.00
MUP-177 INDIVIDUAL LESSONS: CELLO, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189						
OC NCT	MUP-177-01 340842 TBA C. AVERILL Required: Student Petition.		\$260.00	\$26.00	\$450.00	\$736.00
MUP-178 INDIVIDUAL LESSONS: BASS, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189						
OC NCT	MUP-178-01 340843 TBA K. DEITZ Required: Student Petition.		\$260.00	\$26.00	\$450.00	\$736.00
MUP-178J INDIVIDUAL LESSONS: JAZZ BASS, 2 CREDITS Required: College-level performance ability						
OC NCT	MUP-178J-01 340844 TBA K. DEITZ Required: Student Petition.		\$260.00	\$26.00	\$450.00	\$736.00
OC NCT	MUP-178J-02 340845 TBA T. WAKELING Required: Student Petition.		\$260.00	\$26.00	\$450.00	\$736.00
MUP-178R INDIVIDUAL LESSONS: ROCK, BLUES, POP BASS, 2 CREDITS Required: College-level performance ability						
OC NCT	MUP-178R-01 340846 TBA K. DEITZ Required: Student Petition.		\$260.00	\$26.00	\$450.00	\$736.00
MUP-179 INDIVIDUAL LESSONS: HARP, 2 CREDITS						

Course No	Course Title, Credits					
	Section No Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU) Tuition	Fee	Time Crs. Fee	Total
Required: College-level performance ability Corequisites: MUS-189						
OC NCT	MUP-179-01 340847 TBA TBA Required: Student Petition.		\$260.00	\$26.00	\$450.00	\$736.00
MUP-180 INDIVIDUAL LESSONS: GUITAR, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189						
OC NCT	MUP-180-01 340848 TBA D. TUTMARK Required: Student Petition.		\$260.00	\$26.00	\$450.00	\$736.00
MUP-180J INDIVIDUAL LESSONS: JAZZ GUITAR, 2 CREDITS Required: College-level performance ability						
OC NCT	MUP-180J-01 340849 TBA J. RADSLIFF Required: Student Petition.		\$260.00	\$26.00	\$450.00	\$736.00
MUP-180R INDIVIDUAL LESSONS: ROCK, BLUES, POP GUITAR, 2 CREDITS Required: College-level performance ability						
OC NCT	MUP-180R-01 340850 TBA A. CSIKOS Required: Student Petition.		\$260.00	\$26.00	\$450.00	\$736.00
MUP-181 INDIVIDUAL LESSONS: FLUTE, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189						
OC NCT	MUP-181-01 340851 TBA S. TIEDEMANN Required: Student Petition.		\$260.00	\$26.00	\$450.00	\$736.00
MUP-181J INDIVIDUAL LESSONS: JAZZ FLUTE, 2 CREDITS Required: College-level performance ability						
OC NCT	MUP-181J-01 340854 TBA G. HARRIS Required: Student Petition.		\$260.00	\$26.00	\$450.00	\$736.00
MUP-182 INDIVIDUAL LESSONS: OBOE, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189						
OC NCT	MUP-182-01 340855 TBA C. LEE Required: Student Petition.		\$260.00	\$26.00	\$450.00	\$736.00
MUP-183 INDIVIDUAL LESSONS: CLARINET, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189						
OC NCT	MUP-183-01 340856 TBA L. DE MARTINO Required: Student Petition.		\$260.00	\$26.00	\$450.00	\$736.00
MUP-183J INDIVIDUAL LESSONS: JAZZ CLARINET, 2 CREDITS Required: College-level performance ability						
OC NCT	MUP-183J-01 340857 TBA TBA Required: Student Petition.		\$260.00	\$26.00	\$450.00	\$736.00
MUP-184 INDIVIDUAL LESSONS: SAXOPHONE, 2 CREDITS						

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Course Listing

2025/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
Required: College-level performance ability Corequisites: MUS-189										
OC NCT	MUP-184-01 340858 TBA		G. HARRIS			\$260.00	\$26.00	\$450.00		\$736.00
Required: Student Petition.										
MUP-184J INDIVIDUAL LESSONS: JAZZ SAXOPHONE, 2 CREDITS Required: College-level performance ability										
OC NCT	MUP-184J-01 340859 TBA		G. HARRIS			\$260.00	\$26.00	\$450.00		\$736.00
Required: Student Petition.										
MUP-185 INDIVIDUAL LESSONS: BASSOON, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189										
OC NCT	MUP-185-01 340861 TBA		N. BUETTI			\$260.00	\$26.00	\$450.00		\$736.00
Required: Student Petition.										
MUP-186 INDIVIDUAL LESSONS: TRUMPET, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189										
OC NCT	MUP-186-01 340863 TBA		J. KLAUSE			\$260.00	\$26.00	\$450.00		\$736.00
Required: Student Petition.										
MUP-186J INDIVIDUAL LESSONS: JAZZ TRUMPET, 2 CREDITS Required: College-level performance ability										
OC NCT	MUP-186J-01 340865 TBA		Q. WALKER			\$260.00	\$26.00	\$450.00		\$736.00
Required: Student Petition.										
MUP-187 INDIVIDUAL LESSONS: FRENCH HORN, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189										
OC NCT	MUP-187-01 340866 TBA		R. OLASON			\$260.00	\$26.00	\$450.00		\$736.00
Required: Student Petition.										
MUP-188 INDIVIDUAL LESSONS: TROMBONE, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189										
OC NCT	MUP-188-01 340867 TBA		L. CAMPBELL			\$260.00	\$26.00	\$450.00		\$736.00
Required: Student Petition.										
OC NCT	MUP-188-02 340868 TBA		C. RENEAU			\$260.00	\$26.00	\$450.00		\$736.00
Required: Student Petition.										
MUP-188J INDIVIDUAL LESSONS: JAZZ TROMBONE, 2 CREDITS Required: College-level performance ability										
OC NCT	MUP-188J-01 340869 TBA		L. CAMPBELL			\$260.00	\$26.00	\$450.00		\$736.00
Required: Student Petition.										
MUP-189 INDIVIDUAL LESSONS: EUPHONIUM, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189										
OC NCT	MUP-189-01 340871 TBA					\$260.00	\$26.00	\$450.00		\$736.00
Required: Student Petition.										
MUP-190 INDIVIDUAL LESSONS: TUBA, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189										
OC NCT	MUP-190-01 340873 TBA					\$260.00	\$26.00	\$450.00		\$736.00
Required: Student Petition.										
MUP-191 INDIVIDUAL LESSONS: PERCUSSION, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189										
OC NCT	MUP-191-01 340875 TBA		B. GARDINER			\$260.00	\$26.00	\$450.00		\$736.00
Required: Student Petition.										
MUP-191J INDIVIDUAL LESSONS: JAZZ PERCUSSION, 2 CREDITS Required: College-level performance ability										
OC NCT	MUP-191J-01 340879 TBA		C. DOGGETT			\$260.00	\$26.00	\$450.00		\$736.00
Required: Student Petition.										
MUP-191R INDIVIDUAL LESSONS: ROCK, BLUES, POP DRUMSET, 2 CREDITS Required: College-level performance ability										
OC NCT	MUP-191R-01 340881 TBA		C. DOGGETT			\$260.00	\$26.00	\$450.00		\$736.00
Required: Student Petition.										
MUP-192T INDIVIDUAL LESSONS: AUDIO TECH, 2 CREDITS Required: College-level performance ability										
OC NCT	MUP-192T-01 340882 TBA		M. BAIRD			\$260.00	\$26.00	\$450.00		\$736.00
Required: Student Petition. Electronic Music Lessons.										
OC NCT	MUP-192T-02 340884 TBA		D. BADSTUBNER			\$260.00	\$26.00	\$450.00		\$736.00
Required: Student Petition. Audio Recording Lessons.										
OC NCT	MUP-192T-03 340885 TBA		R. SOMMERS			\$260.00	\$26.00	\$450.00		\$736.00
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 340899 TBA		Y. MIYAMA			\$260.00	\$26.00	\$450.00		\$736.00
OC NCT	MUP-271-02 340901 TBA		T. STOJANOVIC			\$260.00	\$26.00	\$450.00		\$736.00
MUP-271J INDIVIDUAL LESSONS: JAZZ PIANO, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189										
OC NCT	MUP-271J-01 340903 TBA		T. STOJANOVIC			\$260.00	\$26.00	\$450.00		\$736.00
Required: Student Petition.										

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 340899 TBA		Y. MIYAMA			\$260.00	\$26.00	\$450.00		\$736.00
OC NCT	MUP-271-02 340901 TBA		T. STOJANOVIC			\$260.00	\$26.00	\$450.00		\$736.00

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

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	Instructor									
Prerequisites: MUP-171J (6 credits)										
Required: Sophomore-level performance ability										
OC NCT	MUP-271J-01	340904 TBA								
	K. POLITZER					\$260.00	\$26.00	\$450.00		\$736.00
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	340905 TBA								
	D. FLESCNER					\$260.00	\$26.00	\$450.00		\$736.00
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	340907 TBA								
	J. HOLLAND					\$260.00	\$26.00	\$450.00		\$736.00
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	340909 TBA								
	J. ISRAELS					\$260.00	\$26.00	\$450.00		\$736.00
OC NCT	MUP-274-02	340910 TBA								
	B. MICHAEL					\$260.00	\$26.00	\$450.00		\$736.00
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	340911 TBA								
	J. ISRAELS					\$260.00	\$26.00	\$450.00		\$736.00
OC NCT	MUP-274J-02	340912 TBA								
	B. MICHAEL					\$260.00	\$26.00	\$450.00		\$736.00
MUP-274R INDIVIDUAL LESSONS: ROCK, BLUES, POP VOICE, 2 CREDITS										
Prerequisites: MUP-174R (6 credits)										
Required: Sophomore-level performance ability										
OC NCT	MUP-274R-01	340914 TBA								
	J. ISRAELS					\$260.00	\$26.00	\$450.00		\$736.00
OC NCT	MUP-274R-02	340915 TBA								
	B. MICHAEL					\$260.00	\$26.00	\$450.00		\$736.00
MUP-275 INDIVIDUAL LESSONS: VIOLIN, 2 CREDITS										
Prerequisites: MUP-175 (6 credits)										
Corequisites: MUS-189										
Required: Sophomore-level performance ability										
OC NCT	MUP-275-01	340917 TBA								
	TBA					\$260.00	\$26.00	\$450.00		\$736.00
MUP-276 INDIVIDUAL LESSONS: VIOLA, 2 CREDITS										
Prerequisites: MUP-176 (6 credits)										
Corequisites: MUS-189										
Required: Sophomore-level performance ability										
OC NCT	MUP-276-01	340918 TBA								
	H. OSEAS					\$260.00	\$26.00	\$450.00		\$736.00
MUP-277 INDIVIDUAL LESSONS: CELLO, 2 CREDITS										
Prerequisites: MUP-177 (6 credits)										
Corequisites: MUS-189										
Required: Sophomore-level performance ability										
OC NCT	MUP-277-01	340919 TBA								
	C. AVERILL					\$260.00	\$26.00	\$450.00		\$736.00
MUP-278 INDIVIDUAL LESSONS: BASS, 2 CREDITS										
Prerequisites: MUP-178 (6 credits)										
Corequisites: MUS-189										
Required: Sophomore-level performance ability										
OC NCT	MUP-278-01	340920 TBA								
	K. DEITZ					\$260.00	\$26.00	\$450.00		\$736.00
MUP-278J INDIVIDUAL LESSONS: JAZZ BASS, 2 CREDITS										
Prerequisites: MUP-178J (6 credits)										
Required: Sophomore-level performance ability										
OC NCT	MUP-278J-01	340921 TBA								
	K. DEITZ					\$260.00	\$26.00	\$450.00		\$736.00
OC NCT	MUP-278J-02	340923 TBA								
	T. WAKELING					\$260.00	\$26.00	\$450.00		\$736.00
MUP-278R INDIVIDUAL LESSONS: ROCK, BLUES, POP BASS, 2 CREDITS										
Prerequisites: MUP-178R (6 credits)										
Required: Sophomore-level performance ability										
OC NCT	MUP-278R-01	340924 TBA								
	K. DEITZ					\$260.00	\$26.00	\$450.00		\$736.00
MUP-279 INDIVIDUAL LESSONS: HARP, 2 CREDITS										
Prerequisites: MUP-179 (6 credits)										
Corequisites: MUS-189										
Required: Sophomore-level performance ability										
OC NCT	MUP-279-01	340925 TBA								
	TBA					\$260.00	\$26.00	\$450.00		\$736.00
MUP-280 INDIVIDUAL LESSONS: GUITAR, 2 CREDITS										
Prerequisites: MUP-180 (6 credits)										
Corequisites: MUS-189										
Required: Sophomore-level performance ability										
OC NCT	MUP-280-01	340926 TBA								
	D. TUTMARK					\$260.00	\$26.00	\$450.00		\$736.00
MUP-280J INDIVIDUAL LESSONS: JAZZ GUITAR, 2 CREDITS										
Prerequisites: MUP-180J (6 credits)										
Required: Sophomore-level performance ability										
OC NCT	MUP-280J-01	340927 TBA								
	J. RADSLIFF					\$260.00	\$26.00	\$450.00		\$736.00
MUP-280R INDIVIDUAL LESSONS: ROCK, BLUES, POP GUITAR, 2 CREDITS										
Prerequisites: MUP-180R (6 credits)										
Required: Sophomore-level performance ability										
OC NCT	MUP-280R-01	340930 TBA								
	A. CSIKOS					\$260.00	\$26.00	\$450.00		\$736.00
MUP-281 INDIVIDUAL LESSONS: FLUTE, 2 CREDITS										
Prerequisites: MUP-181 (6 credits)										
Corequisites: MUS-189										
Required: Sophomore-level performance ability										

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OC NCT	MUP-281-01 340932 TBA S. TIEDEMANN					\$260.00	\$26.00	\$450.00		\$736.00
MUP-281J INDIVIDUAL LESSONS: JAZZ FLUTE, 2 CREDITS Prerequisites: MUP-181J (6 credits) Required: Sophomore-level performance ability										
OC NCT	MUP-281J-01 340934 TBA G. HARRIS					\$260.00	\$26.00	\$450.00		\$736.00
MUP-282 INDIVIDUAL LESSONS: OBOE, 2 CREDITS Prerequisites: MUP-182 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC NCT	MUP-282-01 340935 TBA C. LEE					\$260.00	\$26.00	\$450.00		\$736.00
MUP-283 INDIVIDUAL LESSONS: CLARINET, 2 CREDITS Prerequisites: MUP-183 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC NCT	MUP-283-01 340938 TBA L. DE MARTINO					\$260.00	\$26.00	\$450.00		\$736.00
MUP-283J INDIVIDUAL LESSONS: JAZZ CLARINET, 2 CREDITS Prerequisites: MUP-183J (6 credits) Required: Sophomore-level performance ability										
OC NCT	MUP-283J-01 340940 TBA TBA					\$260.00	\$26.00	\$450.00		\$736.00
MUP-284 INDIVIDUAL LESSONS: SAXOPHONE, 2 CREDITS Prerequisites: MUP-184 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC NCT	MUP-284-01 340941 TBA G. HARRIS					\$260.00	\$26.00	\$450.00		\$736.00
MUP-284J INDIVIDUAL LESSONS: JAZZ SAXOPHONE, 2 CREDITS Prerequisites: MUP-184J (6 credits) Required: Sophomore-level performance ability										
OC NCT	MUP-284J-01 340943 TBA G. HARRIS					\$260.00	\$26.00	\$450.00		\$736.00
MUP-285 INDIVIDUAL LESSONS: BASSOON, 2 CREDITS Prerequisites: MUP-185 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC NCT	MUP-285-01 340945 TBA N. BUETTI					\$260.00	\$26.00	\$450.00		\$736.00
MUP-286 INDIVIDUAL LESSONS: TRUMPET, 2 CREDITS Prerequisites: MUP-186 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC NCT	MUP-286-01 340948 TBA J. KLAUSE					\$260.00	\$26.00	\$450.00		\$736.00
MUP-286J INDIVIDUAL LESSONS: JAZZ TRUMPET, 2 CREDITS Prerequisites: MUP-186J (6 credits) Required: Sophomore-level performance ability										
OC NCT	MUP-286J-01 340949 TBA Q. WALKER					\$260.00	\$26.00	\$450.00		\$736.00
MUP-287 INDIVIDUAL LESSONS: FRENCH HORN, 2 CREDITS Prerequisites: MUP-187 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC NCT	MUP-287-01 340952 TBA R. OLASON					\$260.00	\$26.00	\$450.00		\$736.00
MUP-288 INDIVIDUAL LESSONS: TROMBONE, 2 CREDITS Prerequisites: MUP-188 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC NCT	MUP-288-01 340954 TBA L. CAMPBELL					\$260.00	\$26.00	\$450.00		\$736.00
MUP-288J INDIVIDUAL LESSONS: JAZZ TROMBONE, 2 CREDITS Prerequisites: MUP-188J (6 credits) Required: Sophomore-level performance ability										
OC NCT	MUP-288J-01 340956 TBA L. CAMPBELL					\$260.00	\$26.00	\$450.00		\$736.00
MUP-289 INDIVIDUAL LESSONS: EUPHONIUM, 2 CREDITS Prerequisites: MUP-189 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC NCT	MUP-289-01 340958 TBA TBA					\$260.00	\$26.00	\$450.00		\$736.00
MUP-290 INDIVIDUAL LESSONS: TUBA, 2 CREDITS Prerequisites: MUP-190 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC NCT	MUP-290-01 340961 TBA TBA					\$260.00	\$26.00	\$450.00		\$736.00
MUP-291 INDIVIDUAL LESSONS: PERCUSSION, 2 CREDITS Prerequisites: MUP-191 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC NCT	MUP-291-01 340962 TBA B. GARDINER					\$260.00	\$26.00	\$450.00		\$736.00
MUP-291J INDIVIDUAL LESSONS: JAZZ PERCUSSION, 2 CREDITS Prerequisites: MUP-191J (6 credits) Required: Sophomore-level performance ability										
OC NCT	MUP-291J-01 340964 TBA C. DOGGETT					\$260.00	\$26.00	\$450.00		\$736.00
MUP-291R INDIVIDUAL LESSONS: ROCK, BLUES, POP DRUMSET, 2 CREDITS Prerequisites: MUP-191R (6 credits) Required: Sophomore-level performance ability										
OC NCT	MUP-291R-01 340966 TBA C. DOGGETT					\$260.00	\$26.00	\$450.00		\$736.00
MUP-292T INDIVIDUAL LESSONS: AUDIO TECH, 2 CREDITS Prerequisites: MUP-192T (6 credits) Required: Sophomore-level performance ability										

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OC NCT	MUP-292T-01 340967 TBA M. BAIRD Electronic Music Lessons.					\$260.00	\$26.00	\$450.00	\$736.00
OC NCT	MUP-292T-02 340968 TBA D. BADSTUBNER Audio Recording Lessons.					\$260.00	\$26.00	\$450.00	\$736.00
OC NCT	MUP-292T-03 340970 TBA R. SOMMERS Live Sound Lessons.					\$260.00	\$26.00	\$450.00	\$736.00

Nursing

The Nursing program at Clackamas Community College is a full partner in the Oregon Consortium for Nursing Education (OCNE). The curriculum in OCNE nursing programs is a competency-based curriculum developed in collaboration with Oregon Health & Science University (OHSU) and other community colleges around the state. This curriculum, which has been approved by the Oregon State Board of Education as well as the Oregon State Board of Nursing, can ultimately culminate in a Baccalaureate of Science Degree with a focus in Nursing on the community college campus offered by OHSU.

Admission into the nursing program is by special application only. Acceptance to the nursing program allows for co-enrollment to Clackamas Community College and Oregon Health & Science University, School of Nursing.

The Nursing Assistant course, while not required to enter the Nursing program, provides a strong foundation regarding the delivery of care to clients in various settings.

NRS-110 FOUNDATIONS OF NURSING - HEALTH PROMOTION, 6 CREDITS

This course introduces the learner to framework of the OCNE curriculum. The emphasis on health promotion across the life span includes learning about self-health as well as patient health practices. To support self and patient health practices, students learn to access research evidence about healthy lifestyle patterns and risk factors for disease/illness, apply growth and development theory, interview patients in a culturally sensitive manner, work as members of a multidisciplinary team giving and receiving feedback about performance, and use reflective thinking about their practice as nursing students. Populations studied in the course include children, adults, older adults and the family experiencing a normal pregnancy. Includes classroom and clinical learning experiences. The clinical portion of the course includes practice with therapeutic communication skills and selected core nursing skills identified in the OCNE Core Nursing Skills document.

Required: Acceptance into the CCC nursing program

Corequisites: NRS-110C and NRS-230

HAR	NRS-110-01 341073 WTH	9-3:00 PM
	M	9-2:00 PM
	C. BURT	\$780.00 \$78.00 \$500.00 \$1,358.00
	T. VANDERWERF	

NRS-110C FOUNDATIONS OF NURSING - HEALTH PROMOTION CLINICAL, 3 CREDITS

This course introduces the learner to framework of the OCNE curriculum. The emphasis on health promotion across the life span includes learning about self-health as well as client health practices. To support self and client health practices, students learn to access research evidence about healthy lifestyle patterns and risk factors for disease/illness, apply growth and development theory, interview clients in a culturally sensitive manner, work as members of a multidisciplinary team giving and receiving feedback about performance, and use reflective thinking about their practice as nursing students. Populations studied in the course include children, adults, older adults and the family experiencing a normal pregnancy. Includes classroom and clinical learning experiences.

Required: Acceptance into the CCC nursing program

Corequisites: NRS-110 and NRS-230

HAR	NRS-110C-01 341075 T	9-10:50 AM
	C. BURT	\$390.00 \$39.00 \$360.00 \$789.00
	T. VANDERWERF	
HAR	NRS-110C-02 341079 T	11-12:50 PM
	C. BURT	\$390.00 \$39.00 \$360.00 \$789.00
	T. VANDERWERF	
HAR	NRS-110C-03 341081 T	1:30 -3:20 PM
	C. BURT	\$390.00 \$39.00 \$360.00 \$789.00
	T. VANDERWERF	

NRS-222 NURSING IN ACUTE CARE II & END OF LIFE, 4 CREDITS

This course builds on NRS-112, focusing on more complex and/or unstable patient care conditions, some of which may result in death. These patient care conditions require strong noticing and rapid decision making skills. Evidence base is used to support appropriate focused assessments, and effective, efficient nursing interventions. Life span and developmental factors, cultural variables, and legal aspects of care frame the ethical decision-making employed in patient choices for treatment or palliative care for disorders with an acute trajectory. Case scenarios incorporate prioritizing care needs, delegation and supervision, and family and patient teaching for either discharge planning or end-of-life care. Exemplars include acute conditions affecting multiple body systems. Includes classroom and clinical learning experiences.

Required: Acceptance into the CCC nursing program

Prerequisites: NRS-112, NRS-112C, and NRS-233

Corequisites: NRS-222C

HAR	NRS-222-01 341087 M	8:30 -10:50 AM
	M	12-3:00 PM
	K. RICHARDS	\$520.00 \$52.00 \$198.00 \$770.00

NRS-222C NURSING IN ACUTE CARE II & END OF LIFE CLINICAL, 5 CREDITS

This course builds on NRS-112, and focuses on more complex and/or unstable patient care conditions, some of which may result in death. These patient care conditions require strong noticing and rapid decision making skills. Evidence base is used to support appropriate focused assessments, and effective, efficient nursing interventions. Life span and developmental factors, cultural variables, and legal aspects of care frame the ethical decision-making employed in patient choices for treatment or palliative care within the acute care setting. Case scenarios incorporate prioritizing care needs, delegation and supervision, and family and patient teaching for either discharge planning or end-of-life care. Exemplars include acute conditions affecting multiple body systems. Includes classroom and clinical learning experiences.

Required: Acceptance into the CCC nursing program

Prerequisites: NRS-112, NRS-112C, and NRS-233

Corequisites: NRS-222

HAR	NRS-222C-01 341089 T	7-7:20 PM
	K. RICHARDS	\$650.00 \$65.00 \$378.00 \$1,093.00

Campus Locations:

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

Distance Education Notification:

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

Other Coding Translations:

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

ESPAÑOL: Enseñado en español

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

Course No	Course Title, Credits						Course No	Course Title, Credits					
	Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)		Time	Total		Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)		Time	Total
HAR	NRS-222C-02	341091	W			7-7:20 PM	HAR HYB	NUR-100-01	341096	TW		8-12:30 PM	
	K. RICHARDS		\$650.00	\$65.00		\$378.00		M. BAKER		\$845.00	\$84.50	\$350.00	\$1,279.50
HAR	NRS-222C-03	341092	F			7-7:20 PM		S. ELLSBERG					
	K. RICHARDS		\$650.00	\$65.00		\$378.00		Required: Student Petition. Application required to enter the					
HAR	NRS-222C-04	341093	TH			7-7:20 PM		course. Application details can be found on the webpage.					
	K. RICHARDS		\$650.00	\$65.00		\$378.00		Mandatory Orientation will be held in person on the Harmony					
HAR	NRS-222C-05	341094	TH			7-7:20 PM		Campus for those conditionally accepted into the course.					
	K. RICHARDS		\$650.00	\$65.00		\$378.00		Please see the Nursing Assistant webpage for dates and					

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	NRS-230-01	341095 F					8:30 -10:20 AM	
	K. RICHARDS				\$390.00	\$39.00	\$210.00	\$639.00

NUR-100 NURSING ASSISTANT I, 6.5 CREDITS

This course provides the student with the skills to perform basic level nursing care. Certified Nursing Assistants are defined by law as people who assist licensed nursing personnel in the provision of nursing care. Prepares the student to perform routine nursing assistant tasks to clients in sub-acute care settings as well as in the community. Includes didactic and skills lab instruction. Major topics covered include: collaboration with health care team, communication & interpersonal skills, person-centered care, infection control and prevention, safety and emergency procedures, assisting with activities of daily living, mental health and social service needs of clients, technical skills, acquiring observation and reporting skills, documentation of care provided and end-of-life care. Upon successful completion of this course, students may apply for the Oregon State Board of Nursing certification exam for nursing assistants (CNA 1). This course is approved by the Oregon State Board of Nursing. Required: Student Petition.

Required: Must be at least 18 years of age; High School Diploma or equivalent; Must be formally accepted by Health Sciences Admissions and attend a mandatory orientation session. During the orientation, students will start the process for completing all non-academic requirements. Non-academic requirements include: Immunizations (MMR, Varicella, Tdap, Hep B, COVID-19, seasonal Flu); complete a Criminal Background Check; Drug Screen; Tuberculosis test; BLS/CPR for Healthcare Providers certification through American Heart Association (AHA)

Corequisites: NUR-100C

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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	341098 TBA						
	J. LAFRANCE				\$0.00	\$0.00	\$0.00	\$0.00
	Required: Student Petition.							
HAR	NUR-100C-02	341099 TBA						
	J. LAFRANCE				\$0.00	\$0.00	\$0.00	\$0.00
	Required: Student Petition.							
HAR	NUR-100C-03	341100 TBA						
	M. BAKER				\$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 HYB NCT	PHL-101-01	341927 TH					1-2:50 PM	
	K. SEVERSON				\$520.00	\$52.00	\$0.00	\$572.00
	Visit Dye Learning Center on the Oregon City campus to inquire about the PHL-101 full-term library loan.							

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	341934 W					1-2:50 PM	
	M. BAILEY				\$520.00	\$52.00	\$0.00	\$572.00
ONL NCT	PHL-102-02	341931						
	M. BAILEY				\$520.00	\$52.00	\$0.00	\$572.00

PHL-103 CRITICAL REASONING, 4 CREDITS

Helps students identify and understand the process by which they themselves and others arrive at conclusions; improves their critical reasoning skills; introduces basic logical concepts of argument; and gives opportunity for students to apply course skills to relevant matters.

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

ONL LCT	PHL-103-01	341936						
	K. HADDIX				\$520.00	\$52.00	\$0.00	\$572.00

Course No Course Title, Credits							Course No Course Title, Credits						
	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time		Total		Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time		Total
	Instructor		Tuition	Fee	Crs. Fee			Instructor		Tuition	Fee	Crs. Fee	
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 is an online course with embedded skills demonstrations to help prepare students for the in-person skills lab.													
Corequisites: PHB-112 and PHB-115													
Recommended Prerequisites: BI-120, or BI-101 & BI-102, or BI-231 & BI-232 & BI-233. HP-110, and WR-101 or WR-121Z													
ONL	PHB-110-01	341101											
	E. ZUNIGA		\$650.00	\$65.00	\$0.00	\$715.00							
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.													
Corequisites: PHB-110 and PHB-115													
Recommended Prerequisites: BI-120, or BI-101 & BI-102, or BI-231 & BI-232 & BI-233. HP-110, and WR-101 or WR-121Z													
HAR	PHB-112-01	341102	WF		9-12:00 PM								
	T. BOYD			\$260.00	\$26.00	\$150.00	\$436.00						
	E. ZUNIGA												
HAR	PHB-112-02	341103	WF		1-4:00 PM								
	J. ALLISON			\$260.00	\$26.00	\$150.00	\$436.00						
	E. ZUNIGA												
PHB-115 PROFESSIONALISM FOR PHLEBOTOMISTS, 1 CREDIT													
Introduces professionalism in the healthcare setting and prepares students for clinical placement.													
Required: 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	341104											
	E. ZUNIGA			\$130.00	\$13.00	\$100.00	\$243.00						
Physical Education													
PE-185 PHYSICAL ACTIVITY CLASSES, 1 CREDIT													
Recommended: Current physical examination before enrolling													
OC NCT	BASEBALL TECHNIQUES I, 1 CREDIT												
	PE-185-006	345249	MTWTH		3-4:50 PM								
	J. HOPPEL			\$130.00	\$13.00	\$30.00	\$173.00						
	Meets: 9/8-10/6. Required: Student Petition.												
oc	BASKETBALL, MEN'S CNDTNG I, 1 CREDIT												
	PE-185-004	345250	MWF		12-12:50 PM								
	C. WEGNER			\$130.00	\$13.00	\$30.00	\$173.00						
	Required: Student Petition.												
OC NCT	BASKETBALL, WOMEN'S CNDTNG I, 1 CREDIT												
	PE-185-005	345241	MWF		3-3:50 PM								
	K. GUELSDORF			\$130.00	\$13.00	\$30.00	\$173.00						
	J. MARTINEAU												
	Required: Student Petition.												
ONL NCT	CROSS TRAINING I, 1 CREDIT												
	PE-185-031	345247											
	B. STAMME			\$130.00	\$13.00	\$30.00	\$173.00						
ONL NCT	CROSS TRAINING I, 1 CREDIT												
	PE-185-028	345248											
	B. STAMME			\$130.00	\$13.00	\$30.00	\$173.00						
ONL NCT	CROSS TRAINING I, 1 CREDIT												
	PE-185-034	345325											
	B. STAMME			\$130.00	\$13.00	\$30.00	\$173.00						
OC NCT	SOFTBALL TECHNIQUES I, 1 CREDIT												
	PE-185-064	345245	MTWTH		1-2:50 PM								
	J. BUEL			\$130.00	\$13.00	\$30.00	\$173.00						
	Meets: 9/8-10/10. Required: Student Petition.												
OC NCT	TRACK FUNDAMENTALS I, 1 CREDIT												
	PE-185-082	345244	MWF		1:30 -2:20 PM								
	K. MCHONE			\$130.00	\$13.00	\$30.00	\$173.00						
	Required: Student Petition.												
ONL NCT	WALK, JOG, FITNESS I, 1 CREDIT												
	PE-185-025	341839											
	K. MCHONE			\$130.00	\$13.00	\$30.00	\$173.00						
ONL NCT	WEIGHT TRAINING I, 1 CREDIT												
	PE-185-018	341835											
	C. WEGNER			\$130.00	\$13.00	\$30.00	\$173.00						
OC NCT	WEIGHT TRAINING I, 1 CREDIT												
	PE-185-039	341848	TTH		10-11:20 AM								
	C. WEGNER			\$130.00	\$13.00	\$30.00	\$173.00						
OC NCT	WRESTLING CONDITIONING I, 1 CREDIT												
	PE-185-076	345246	MTWTHF		6:30 -7:50 AM								
	R. SANCHEZ			\$130.00	\$13.00	\$30.00	\$173.00						
	Meets: 9/2-10/3. Required: Student Petition.												
ONL NCT	YOGA I, 1 CREDIT												
	PE-185-008	341833											
	E. HANCOCK			\$130.00	\$13.00	\$30.00	\$173.00						
PE-194 PROFESSIONAL ACTIVITIES, 1 CREDIT													
Team skills and strategy courses. Designed to provide the student with basic skills and methodology necessary to conduct physical fitness programs in the school, corporate, and community setting. Emphasis is placed on fitness concepts, techniques of weight training and aerobic exercises to encourage life-long physical activity. Course offerings are: baseball, basketball, cross-country, soccer, softball, track and field, volleyball, and wrestling. Required: Student Petition.													
OC NCT	SOCCER SKILLS & STRATEGIES, 1 CREDIT												
	PE-194-03	345243	MW		11-12:20 PM								
	T. LEWIS			\$130.00	\$13.00	\$30.00	\$173.00						
	Required: Student Petition.												
OC NCT	VOLLEYBALL SKILLS & STRATEGIES, 1 CREDIT												
	PE-194-04	345242	TTH		6-7:20 PM								
	A. ITAMI			\$130.00	\$13.00	\$30.00	\$173.00						
	Required: Student Petition.												
PE-240	STRENGTH & CONDITIONING THEORY & TECHNIQUES, 3 CREDITS												

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VAR: Variable credit class

ESPAÑOL: Enseñado en español

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

An overview of introductory exercise physiology, biomechanics, program design, and exercise techniques that prepares students to design and implement physical training programs and exercise for clients and athletes.

OC HYB NCT	PE-240-01	341860 W			11-11:50 AM	
	K. MCHONE		\$390.00	\$39.00	\$0.00	\$429.00

PE-270 SPORT AND EXERCISE PSYCHOLOGY, 3 CREDITS

The course is designed to provide students with the basic understanding and knowledge of psychological skills used to improve physical performance in themselves, peers, teammates, and athletes they coach. The course would be well-suited for athletes, coaches, or exercise leaders.

ONL NCT	PE-270-01	341861				
	K. MCHONE		\$390.00	\$39.00	\$0.00	\$429.00

PE-280 PHYSICAL EDUCATION/CWE, 2-6 CREDITS

Cooperative work experience. Provides students with on-the-job experience and training related to the Physical Education field. Covers job problems and procedures, evaluation of students' job performance by qualified college staff and site supervision. May be repeated for up to 12 credits. Required: Student Petition.

Corequisites: CWE-281

ONL NCT	PE-280-01	341863				
	T. NELSON		\$780.00	\$78.00	\$45.00	\$903.00V
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	341877				
	C. SHARON		\$520.00	\$52.00	\$25.00	\$597.00

PH-121L ASTRONOMY LAB, 0 CREDIT

Lab course for PH-121L

Corequisites: PH-121

ONL	PH-121L-40	341881				
	C. SHARON		\$0.00	\$0.00	\$0.00	\$0.00

PH-122 GENERAL ASTRONOMY, 4 CREDITS

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

Prerequisites: PH-121 or GS-107

Corequisites: PH-122L

ONL	PH-122-40	341883				
	C. SHARON		\$520.00	\$52.00	\$20.00	\$592.00

PH-122L GENERAL ASTRONOMY LAB, 0 CREDIT

Lab course for PH-122

Corequisites: PH-122

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	PH-122L-40	341886				
	C. SHARON		\$0.00	\$0.00	\$0.00	\$0.00

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	341887 MW			11-12:20 PM	
	E. ALHATMI		\$650.00	\$65.00	\$50.00	\$765.00

PH-201L GENERAL PHYSICS LAB, 0 CREDIT

Lab course for PH-201

Corequisites: PH-201 and PH-201S

OC	PH-201L-01	341888 T			9-11:50 AM	
	E. ALHATMI		\$0.00	\$0.00	\$0.00	\$0.00
OC	PH-201L-02	341889 T			1-3:50 PM	
	G. BOSTROM		\$0.00	\$0.00	\$0.00	\$0.00
OC	PH-201L-03	341891 TH			1-3:50 PM	
	G. BOSTROM		\$0.00	\$0.00	\$0.00	\$0.00
OC	PH-201L-04	341894 F			11-1:50 PM	
	G. BOSTROM		\$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	341895 MW			12:25 -12:50 PM	
	E. ALHATMI		\$0.00	\$0.00	\$0.00	\$0.00

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	341897 MW			11-12:20 PM	
	G. BOSTROM		\$650.00	\$65.00	\$50.00	\$765.00
OC LCT	PH-211-02	341899 MW			1-2:20 PM	
	G. BOSTROM		\$650.00	\$65.00	\$50.00	\$765.00

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

Lab course for PH-211

Corequisites: PH-211 and PH-211S

OC	PH-211L-01	341901 T			9-11:50 AM	
	E. ALHATMI		\$0.00	\$0.00	\$0.00	\$0.00
OC	PH-211L-02	341902 T			1-3:50 PM	
	G. BOSTROM		\$0.00	\$0.00	\$0.00	\$0.00
OC	PH-211L-03	341903 TH			1-3:50 PM	
	G. BOSTROM		\$0.00	\$0.00	\$0.00	\$0.00
OC	PH-211L-04	341904 F			11-1:50 PM	
	G. BOSTROM		\$0.00	\$0.00	\$0.00	\$0.00

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Course Listing

2025/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
PH-211S	GENERAL PHYSICS WITH CALCULUS SEMINAR, 0 CREDIT									
Seminar course for PH-211										
Corequisites: PH-211 and PH-211L										
oc	PH-211S-01	341905	TH					4-4:50 PM		
	G. BOSTROM					\$0.00	\$0.00	\$0.00		\$0.00
oc	PH-211S-02	341907	F					10-10:50 AM		
	G. BOSTROM					\$0.00	\$0.00	\$0.00		\$0.00
oc	PH-211S-03	341908	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	PS-200-01	341939								
	J. HITE					\$520.00	\$52.00	\$0.00		\$572.00

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-090 or placement in WRD-098

ONL	PS-201-01	341940								
	J. HITE					\$520.00	\$52.00	\$0.00		\$572.00

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	341944								
	J. HITE					\$780.00	\$78.00	\$45.00		\$903.00V
	D. LOUGEE									
Required: Student Petition. Corequisite: Take the following CWE-281-06.										

Psychology

PSY-101 HUMAN RELATIONS, 3 CREDITS

Focuses on developing skills and strategies necessary to build and maintain successful personal and professional relationships. Applies psychological principles to understanding relationships with ourselves and others in social, workplace, and digital contexts. Includes an overview of basic psychology principles in addition to skill development in the following areas: dealing with emotions, interpersonal communication, developing close relationships, resolving conflicts, and managing stress. Includes individual and group activities, lecture, and discussions with an emphasis on student participation.

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

oc NCT	PSY-101-01	341945	MW					1-2:20 PM		
	E. SAUBER					\$390.00	\$39.00	\$0.00		\$429.00

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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	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
ONL NCT	PSY-101-02	341950	M. MALLATT			\$390.00	\$39.00	\$0.00		\$429.00
ONL NCT	PSY-101-03	341952	M. MALLATT			\$390.00	\$39.00	\$0.00		\$429.00
HAR	PSY-101-04	341953	MW			\$390.00	\$39.00	\$0.00	10-11:20 AM	\$429.00
	J. VELEZ									

PSY-201Z INTRODUCTION TO PSYCHOLOGY I, 4 CREDITS

Introduction to the science and application of psychology. Emphasis will be placed on psychological concepts, theories, and principles related to: Research Methods, Behavioral Neuroscience, Consciousness, Sensation/Perception, Learning, Memory, Thinking and Intelligence, and related topics.

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

OC NCT	PSY-201Z-01	341956	TTH					8-9:50 AM		
	J. KISSLER					\$520.00	\$52.00	\$0.00		\$572.00
OC NCT	PSY-201Z-02	341958	TTH					10-11:50 AM		
	J. KISSLER					\$520.00	\$52.00	\$0.00		\$572.00
ONL	PSY-201Z-03	341959				\$520.00	\$52.00	\$0.00		\$572.00
	S. TOBIN									

PSY-202Z INTRODUCTION TO PSYCHOLOGY II, 4 CREDITS

Introduction to the science and application of psychology. Emphasis will be placed on psychological concepts, theories, and principles related to: Personality, Social Psychology, Health and Well-Being, Motivation and Emotion, Disorders, Therapies, Lifespan Development, and related topics.

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

OC NCT	PSY-202Z-01	341961	MW					1-2:50 PM		
	J. KISSLER					\$520.00	\$52.00	\$0.00		\$572.00
ONL NCT	PSY-202Z-02	341964				\$520.00	\$52.00	\$0.00		\$572.00
	I. MANCINELLI-FRANCONI									

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 HYB	PSY-215-01	341965	T					1-2:50 PM		
	S. KISER					\$520.00	\$52.00	\$0.00		\$572.00
ONL NCT	PSY-215-02	341968				\$520.00	\$52.00	\$0.00		\$572.00
	T. THOMAS									
ONL	PSY-215-03	341969				\$520.00	\$52.00	\$87.25		\$659.25
	K. KRASKA									
Online textbook included in section fees.										
HAR	PSY-215-04	341970	MW					1-2:50 PM		
	J. VELEZ					\$520.00	\$52.00	\$0.00		\$572.00
ONL NCT	PSY-215-05	347182				\$520.00	\$52.00	\$0.00		\$572.00
	I. MANCINELLI-FRANCONI									

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	341972	MW					10-11:50 AM		
	E. SAUBER					\$520.00	\$52.00	\$0.00		\$572.00

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
ONL NCT	PSY-219-02 341975		E. SAUBER			\$520.00	\$52.00	\$0.00		\$572.00
ONL	PSY-219-03 341977		S. KISER			\$520.00	\$52.00	\$0.00		\$572.00

PSY-231 INTRODUCTION TO HUMAN SEXUALITY, 4 CREDITS

Introduction to research and theories of human sexual behavior, including: sexual relationships, communication and intimacy, sex roles, the development of gender, social trends regarding sexuality, human sexual response, biology of sexuality, and conception.

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

OC NCT	PSY-231-01 341980 TTH		E. SAUBER			\$520.00	\$52.00	\$0.00		\$572.00
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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 341983		J. KISSLER			\$780.00	\$78.00	\$45.00		\$903.00V
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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

ONL	R-102-01 341987		J. SHELTON			\$520.00	\$52.00	\$0.00		\$572.00
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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 341989		J. SHELTON			\$520.00	\$52.00	\$0.00		\$572.00
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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.

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

ONL	R-210-01 341991		J. SHELTON			\$520.00	\$52.00	\$0.00		\$572.00
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R-280 RELIGION/CWE, 2-6 CREDITS (VAR)

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

Corequisites: CWE-281

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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-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 341909		S. PAVEY			\$780.00	\$78.00	\$307.50	\$1,165.50V
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Required: Student Petition. Corequisite: Take the following CWE-281-06.

Small Business Development Center

Registration for these workshops does not require college admission. E-mail bizcenter@clackamas.edu for online registration instructions.

For more information on these classes or other questions regarding your small business needs, contact the Small Business Development Center (SBDC) at 503-594-0738. Website: www.oregonsbdc.org/clackamas

SBM-010 REAL ESTATE BROKER LICENSE, 0 CREDIT

Prepares students to qualify for the Oregon Real Estate Broker's License exam by studying statutes, rules and anti-discrimination laws pertaining to the licensing and professional real estate activity required by all licensees of the State of Oregon.

REM	SBM-010-01FA TBA	345373 TH	6-9:00 PM 9-5:00 PM
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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 TBA	345374 T	6-8:00 PM
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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.

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-020-05FA	345375	T					6:30 -9:30 PM		
	J. SELBY									
REM	SBM-020-06FA	345376	T					6:30 -9:30 PM		
	J. SELBY									
REM	SBM-020-07FA	345377	T					6:30 -9:30 PM		
	J. SELBY									
REM	SBM-020-08FA	345378	T					6:30 -9:30 PM		
	J. SELBY									
SBM-021	SMALL BUSINESS MANAGEMENT I GROWTH WHEEL, 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	345394	TH					1-4:00 PM		
	R. CAMPBELL									
SBM-024	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 hands-on, 9 month 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	SBM-024-01FA	345395	TH					1-4:00 PM		
	D. TOURNEY									
HAR HYB	SBM-024-02FA	345507	TH					1-4:00 PM		
	D. TOURNEY									
HAR HYB	SBM-024-03FA	345508	TH					1-4:00 PM		
	D. TOURNEY									
SBM-028	CONTRACTOR ESSENTIALS MANAGEMENT SBM 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-028-01FA	345396								
	D. TOURNEY									
SBM-029	NEXT LEVEL CONTRACTING: ADVANCED BUSINESS STRATEGIES FOR CONTRACTORS SBM II, 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	345399	W					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.										
REM	SBM-031-01FA	345410	T					6:30 -8:00 PM		
	D. TOURNEY									
XSBM-0003	GOING INTO BUSINESS, 0 CREDIT									
Going Into Business orientation introduces the steps you need to take to start-up and successfully operate a small business in Oregon. Before you go too far, find out what it takes to start up your own business. This workshop will help you assess whether business ownership is the right path for you. Discover what resources are available to you for researching, starting-up, financing, and managing your new business.										
REM	XSBM-0003-01FA	345219	TH					6:30 -9:30 PM		
	J. SELBY									
REM	XSBM-0003-02FA	345220	TH					6:30 -9:30 PM		
	J. SELBY									
REM	XSBM-0003-03FA	345222	TH					6:30 -9:30 PM		
	J. SELBY									
XSBM-0010	PREPARING FOR THE CCB EXAM, 0 CREDIT									
This class will prepare students to qualify for and successfully pass the Construction Contractors Board (CCB) exam required for contractor certification in Oregon. The class is taught by a certified CCB education provider and fulfills the CCB pre-exam educational requirement as stipulated under Oregon Revised Statute 701.280.										
HAR	XSBM-0010-30FA	345223	THF					8-5:00 PM		
	O. FERRER									
HAR	XSBM-0010-31FA	345224	THF					8-5:00 PM		
	O. FERRER									
REM	XSBM-0010-32FA	345225	MTH					5:30 -7:00 PM		
	O. FERRER									
HAR	XSBM-0010-33FA	345226	THF					8-5:00 PM		
	O. FERRER									
HAR	XSBM-0010-34FA	345254	THF					8-5:00 PM		
	TBA									
HAR	XSBM-0010-35FA	345255	THF					8-5:00 PM		
	TBA									
HAR	XSBM-0010-36FA	345256	THF					8-5:00 PM		
	TBA									
HAR	XSBM-0010-37FA	345257	THF					8-5:00 PM		
	TBA									

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XSBM-0011 QUICKBOOKS PRO: PART I, 0 CREDIT

Learn how to set up and use QuickBooks. Students enter company, customer and vendor information, produce invoices, accept payments, make deposits and pay bills using QuickBooks.

HAR	XSBM-0011-22FA	345258 W						6-9:00 PM		
	C. WEESNER									

XSBM-0012 QUICKBOOKS PRO: PART II, 0 CREDIT

In this continuation class, topics include creating and customizing forms and reports, basic job costing, memorizing transactions and reconciling bank and credit card statements.

HAR	XSBM-0012-22FA	345259 S						9-5:00 PM		
	C. WEESNER									

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

This class is designed to help those students who have successfully completed the Preparing for the CCB Exam class gain a basic understanding of recordkeeping and entry level estimating practices.

ONL	XSBM-0024-40FA	345260								
	D. TOURNEY									

Sociology

SOC-204Z INTRODUCTION TO SOCIOLOGY, 4 CREDITS

Introduces the central concepts, theories, and methods that define the sociological approach to investigating the social forces that shape our lives. Topics may include social structure, culture, socialization, race, class, gender, sexuality, and inequality.

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

OC HYB	SOC-204Z-01	341997 W						10-11:50 AM		
	E. PFEIFER		\$520.00	\$52.00	\$0.00			\$572.00		
OC HYB	SOC-204Z-02	341999 TH						1-2:50 PM		
	E. PFEIFER		\$520.00	\$52.00	\$0.00			\$572.00		

SOC-205Z SOCIAL CHANGE AND INSTITUTIONS, 4 CREDITS

Sociological analysis of social institutions, such as family, education, health care, the economy, and the state. Includes an examination of connections among institutions and their impact on patterns of inequality and individual outcomes. Examines the forces and dynamics behind social change, such as social movements, culture, economic forces, technologies, and the environment.

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

ONL LCT	SOC-205Z-01	342004								
	J. LOVELESS		\$520.00	\$52.00	\$0.00			\$572.00		

SOC-206Z SOCIAL PROBLEMS, 4 CREDITS

Applies the sociological perspective to the study of social problems, including their social construction, causes, and consequences. Explores the complexities surrounding their solutions, such as how solutions are socially constructed and policy proposals from sociologists and social movements. Topics may include poverty, discrimination, interpersonal violence, crime, addiction, ecological crises, war/global conflict, and health inequality.

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

OC HYB	SOC-206Z-01	342011 TH						10-11:50 AM		
	E. PFEIFER		\$520.00	\$52.00	\$0.00			\$572.00		
OC HYB	SOC-206Z-02	345253 W						1-2:50 PM		
	E. PFEIFER		\$520.00	\$52.00	\$0.00			\$572.00		

SOC-207 SOCIAL STRATIFICATION & SOCIAL SYSTEMS, 4 CREDITS

This course explores the inequality that exists in our society. Social stratification is the unequal distribution of resources and opportunities in a society. Issues like gender, race, poverty, education and capitalism will be explored and discussed in an attempt to understand their impact on the inequality that we experience in our society. Various sociological theories will be introduced and utilized to explore and enhance our understanding of these issues.

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

ONL LCT	SOC-207-01	345342								
	J. LOVELESS		\$520.00	\$52.00	\$0.00			\$572.00		

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	SOC-210-01	342009								
	J. LOVELESS		\$520.00	\$52.00	\$0.00			\$572.00		

SOC-280 SOCIOLOGY/CWE, 2-6 CREDITS (VAR)

Cooperative work experience. This course allows students who are already working in the field of sociology to earn college credit for that work. Required: Student Petition.

Corequisites: CWE-281

OC	SOC-280-01	342013								
	E. PFEIFER		\$780.00	\$78.00	\$45.00			\$903.00V		
	Required: Student Petition. Corequisite: Take the following CWE-281-06.									

Statistics

STAT-243Z ELEMENTARY STATISTICS I, 4 CREDITS

A first course in statistics focusing on the interpretation and communication of statistical concepts. Introduces exploratory data analysis, descriptive statistics, sampling methods and distributions, point and interval estimates, hypothesis tests for means and proportions, and elements of probability and correlation. Technology will be used when appropriate.

Prerequisites: MTH-105Z or MTH-111Z with a C or better, or placement in STAT-243Z

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

OC HYB NCT	STAT-243Z-01	342025 W						10-11:50 AM		
	K. AMREIN		\$520.00	\$52.00	\$20.00			\$592.00		
OC NCT	STAT-243Z-02	342027 MW						3-4:50 PM		
	T. BIEBER		\$520.00	\$52.00	\$20.00			\$592.00		
OC NCT	STAT-243Z-03	342028 TTH						10-11:50 AM		
	M. YANNOTTA		\$520.00	\$52.00	\$20.00			\$592.00		

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	STAT-243Z-04 342029 TTH							1-2:50 PM		
	T. BIEBER					\$520.00	\$52.00	\$20.00		\$592.00
ONL NCT	STAT-243Z-10 345214									
	K. MERCER					\$520.00	\$52.00	\$20.00		\$592.00

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. 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 341018									
	A. MOON					\$520.00	\$52.00	\$110.00		\$682.00

TA-111 FUNDAMENTALS OF TECHNICAL THEATRE, 4 CREDITS

First class of a three part series. Basic study and practice in the collaborative techniques of mounting various types of productions for presentation. Includes basic principles and techniques in stage design, construction, and lighting. Flexible laboratory sessions available. Students must attend a performance as well as participate in the focus and strike (10 total hours) of a production. Students are required to maintain an independent journal/study (12 total hours) of outside class activity and/or observations of Technical Theatre applications.

OC NCT	TA-111-01 341020 TTH							1-3:50 PM		
	C. WHITTEN					\$520.00	\$52.00	\$35.00		\$607.00

TA-121 COSTUMING I, 3 CREDITS

First in a three-part series. Study and practice in theatrical costuming techniques for various types of live theatrical productions. Students will analyze scripts, research historical background, and study period fashion to develop character wardrobes. This is a project-based course where students will construct and tailor costume and prop pieces for cast members. No experience necessary; limited seats.

OC NCT	TA-121-01 341026 MW							10-12:50 PM		
	TBA					\$390.00	\$39.00	\$0.00		\$429.00

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 341029 MW							10-11:50 AM		
	A. MOON					\$520.00	\$52.00	\$35.00		\$607.00

TA-153 THEATRE REHEARSAL & PERFORMANCE, 1-3 CREDITS (VAR)

Training in theatre production through intensive study and rehearsal of scenes and plays for public performance. May be repeated for up to 6 credits. Required: Student Petition.

Required: Successful audition/interview

Recommended Prerequisites: TA-141 and TA-142, or TA-143; or TA-111 and TA-112, or TA-113

OC NCT	TA-153-01 341033 MWF							3-5:50 PM		
	A. MOON					\$390.00	\$39.00	\$25.00		\$454.00V
	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
TA-195	STUDENT PERFORMANCE SHOWCASE, 1-3 CREDITS (VAR)									

Training in special forms of theatrical presentation through in-class intensive preparation, study, and program development for public presentation, including comedy improvisation, stand-up comedy, and student directed one-act plays. Roles in one-act plays require a successful audition. Other opportunities open to all. May be repeated for up to 6 credits.

OC NCT	TA-195-01 341041 MWF							12-2:50 PM		
	C. WHITTEN					\$390.00	\$39.00	\$35.00		\$464.00V
	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. 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 341047 TTH							1-3:50 PM		
	C. WHITTEN					\$520.00	\$52.00	\$35.00		\$607.00

TA-253 THEATRE REHEARSAL & PERFORMANCE, 1-3 CREDITS (VAR)

Intermediate training in theatre production through intensive study and rehearsal of scenes and plays for public performance. May be repeated for up to 6 credits. Required: Student Petition.

Required: Successful audition/interview

Recommended Prerequisites: TA-153

OC NCT	TA-253-01 341051 MWF							3-5:50 PM		
	A. MOON					\$390.00	\$39.00	\$25.00		\$454.00V
	Required: Student Petition.									

TA-280 THEATRE/CWE, 2-6 CREDITS

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 341056									
	C. WHITTEN					\$780.00	\$78.00	\$45.00		\$903.00V
	Required: Student Petition.									

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

Training in special forms of theatrical presentation through in-class intensive preparation, study, and program development for public presentation, including comedy improvisation, stand-up comedy, and student directed one-act plays. Roles in one-act plays require a successful audition. Other opportunities open to all. May be repeated for up to 6 credits.

OC NCT	TA-295-01 341061 MWF							12-2:50 PM		
	C. WHITTEN					\$390.00	\$39.00	\$35.00		\$464.00V
	Meets: Improv 12-12:50pm, One-Acts 1-1:50pm, Stand-Up 2-2:50pm.									

Water & Environmental Technology

Campus Locations:

HAR: Harmony Community Campus
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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
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ESPAÑOL: Enseñado en español

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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
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	341915 M					6-8:50 PM								
	M. LA FORCE		\$390.00	\$39.00	\$15.00	\$444.00									
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	341916 T					6-8:50 PM								
	J. NURMI		\$390.00	\$39.00	\$15.00	\$444.00									
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	341917 TWTWTF					8-3:50 PM								
	J. NURMI		\$390.00	\$39.00	\$0.00	\$429.00									
Meets: 12/9-12/12. 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	341919 MTWTFH					8-5:00 PM								
	M. LA FORCE		\$520.00	\$52.00	\$4.00	\$576.00									
Required: Student Petition. Meets: 12/8-12/12.															
oc	WET-109-02	341922 MTWTFH					8-5:00 PM								
	M. LA FORCE		\$520.00	\$52.00	\$4.00	\$576.00									
Meets: 9/15-9/19.															
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	341924 M					6-8:50 PM								
	M. LA FORCE		\$390.00	\$39.00	\$15.00	\$444.00									
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	341925 T					6-8:50 PM								
	J. NURMI		\$390.00	\$39.00	\$15.00	\$444.00									
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	341926 M					2-4:50 PM								
	M. LA FORCE		\$520.00	\$52.00	\$0.00	\$572.00									
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	341928 T					9-12:50 PM								
	G. CARR		\$390.00	\$39.00	\$15.00	\$444.00									
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	341929													
	M. LA FORCE		\$650.00	\$65.00	\$45.00	\$760.00									
Required: Student Petition. Corequisite: Take the following CWE-281-03.															
WET-241 AQUATIC MICROBIOLOGY, 4 CREDITS															
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.															
Prerequisites: BI-204															
oc	WET-241-01	341932 TBA													
		MW					9-11:50 AM								
	J. NURMI		\$520.00	\$52.00	\$40.00	\$612.00									
WET-242 HYDRAULICS FOR WATER & WASTEWATER, 3 CREDITS															
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.															
Prerequisites: WET-122															
oc	WET-242-01	341933 MW					12:30 -1:50 PM								
	M. LA FORCE		\$390.00	\$39.00	\$15.00	\$444.00									
WET-245 INSTRUMENTATION & CONTROL, 4 CREDITS															
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.															

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Course Listing

2025/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 HYB	WET-245-01	341935 W			4-5:50 PM	
	G. CARR		\$520.00	\$52.00	\$40.00	\$612.00

WET-280 WATER & ENVIRONMENTAL PROJECTS II, 5 CREDITS

Cooperative work experience. Practical work experience in a municipal industrial treatment, distribution, or collection system. Placement in consulting firms, federal and state regulatory agencies, BLM, BPA, and other regulated governmental organizations. Practical experience in a municipal, public or private wastewater treatment facility of specific activated sludge design. Process loading criteria, data acquisition and trend charting, and relevant sanitary process strategies will be addressed.

Corequisites: CWE-281

ONL	WET-280-01	341937				
	M. LA FORCE		\$650.00	\$65.00	\$45.00	\$760.00
	Required: Student Petition. Corequisite: Take the following CWE-281-03.					

XWET-C001 1-DAY CROSS CONNECTION SPECIALIST UPDATE, 0.70 CEUS

Update on code information or any changes in the program.

oc	XWET-C001-	342093 F			8-3:50 PM	
	31					
	J. NURMI		\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 11/7. Fee: \$100.00. Go to ccc-wet.eventbrite.com to sign up.					

XWET-C002 1-DAY TESTER RENEWAL, 0.70 CEUS

Update on OARs and hands on testing to recertify student for backflow assembly certification through the State of Oregon.

oc	XWET-C002-	342097 F			8-3:50 PM	
	11					
	M. LA FORCE		\$0.00	\$0.00	\$0.00	\$0.00
	J. NURMI					
	Meets: 10/3. Fee: \$100.00. Go to ccc-wet.eventbrite.com to sign up.					
oc	XWET-C002-	342101 F			8-3:50 PM	
	12					
	M. LA FORCE		\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 12/5. Fee: \$100.00. Go to ccc-wet.eventbrite.com to sign up.					

XWET-C003 2-DAY TESTER RETRAIN/RENEWAL, 1.40 CEUS

Review of backflow prevention assemblies used for water/wastewater system cross connection control. Review will include overview of hydraulics and degree of hazards, proper backflow installation procedures, and approved testing/troubleshooting procedures. Students will learn to identify common, actual, and potential cross connection hazards; students will be introduced to the basic requirements for carrying out a cross connection program. Upon successful hands on and written exam completion, students will be issued certificate of completion by OBT/CCC and transcribed for appropriate number of CEUs. Students will be able to apply to Oregon Health Department for recertification by that agency.

oc	XWET-C003-	342103 THF			8-3:50 PM	
	21					
	M. LA FORCE		\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 10/16-10/17. Fee: \$200.00. Go to ccc-wet.eventbrite.com to sign up.					

oc	XWET-C003-	342105 THF			8-3:50 PM	
	22					
	M. LA FORCE		\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 11/13-11/14. Fee: \$200.00. Go to ccc-wet.eventbrite.com to sign up.					

XWET-C004 4-DAY CROSS CONNECTION SPECIALIST COURSE, 3.20 CEUS

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.

oc	XWET-C004-	342107 TWTHF			8-3:50 PM	
	41					
	J. NURMI		\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 12/9-12/12 Fee: \$400.00. Go to ccc-wet.eventbrite.com to sign up. This is an in-person-only workshop.					

XWET-C005 5-DAY BACKFLOW TESTER COURSE, 4.00 CEUS

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-	342110 MTWTHF			8-5:00 PM	
	51					
	M. LA FORCE		\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 12/8-12/12. Fee: \$500.00. Go to ccc-wet.eventbrite.com to sign up.					
oc	XWET-C005-	342111 MTWTHF			8-5:00 PM	
	52					
	M. LA FORCE		\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 9/15-9/19. Fee: \$500.00. 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	341938 TH			2-4:50 PM	
	D. PODKOWA		\$390.00	\$39.00	\$219.00	\$648.00
oc	WLD-100-02	341941 T			6-8:50 PM	
	D. PODKOWA		\$390.00	\$39.00	\$219.00	\$648.00

WLD-102 INTRODUCTION TO WELDING, 2 CREDITS

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Course Listing

2025/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		

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	341943 F		6-9:50 PM		
	A. TOWN	\$260.00	\$26.00	\$146.00	\$432.00	
OC NCT	WLD-102-02	341946 S		9-12:50 PM		
	K. DRURY	\$260.00	\$26.00	\$146.00	\$432.00	
OC NCT	WLD-102-03	341947 S		2-5:50 PM		
	K. DRURY	\$260.00	\$26.00	\$146.00	\$432.00	

WLD-102ES INTRODUCCIÓN A LA SOLDADURA, 2 CREDITS

Diseñado para soldaderos 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	WLD-102ES-01	341948 S		6-9:50 PM		
	F. PAXTOR	\$260.00	\$26.00	\$146.00	\$432.00	

WLD-103 BLACKSMITHING & TRADITIONAL IRON WORKING, 2 CREDITS

This course introduces the student to basic blacksmithing techniques and processes, as well as terminology, steel types, heat treating and tool making. Multiple projects allow the student to practice the varied methods of manual metal forming. No welding experience required.

OC LCT	WLD-103-01	341949 F		6-9:50 PM		
	M. TIZO	\$260.00	\$26.00	\$146.00	\$432.00	
OC LCT	WLD-103-02	341951 SU		10-1:50 PM		
	M. TIZO	\$260.00	\$26.00	\$146.00	\$432.00	

WLD-110 WELDER CERTIFICATION, 4 CREDITS

This course provides theory and practical instruction to become a certified welder. Students will choose a welding process (flux core arc welding, shielded metal arc welding, or gas tungsten arc welding) for certification. Material needed for practice welding will be provided. Students will take a welding certification exam at the end of the class. May be repeated for up to 12 credits.

OC NCT	WLD-110-01	341954 MW		8-11:50 AM		
	D. PODKOWA	\$520.00	\$52.00	\$432.00	\$1,004.00	
	Required: Student Petition.					
OC NCT	WLD-110-02	341957 MW		1-4:50 PM		
	R. THOMAS	\$520.00	\$52.00	\$432.00	\$1,004.00	
	Required: Student Petition.					
OC NCT	WLD-110-03	341960 MW		6-9:50 PM		
	M. TIZO	\$520.00	\$52.00	\$432.00	\$1,004.00	
	Required: Student Petition.					
OC NCT	WLD-110-04	341962 TTH		8-11:50 AM		
	D. BATES	\$520.00	\$52.00	\$432.00	\$1,004.00	
	Required: Student Petition.					
OC NCT	WLD-110-05	341963 TTH		6-9:50 PM		
	B. MULLIGAN	\$520.00	\$52.00	\$432.00	\$1,004.00	
	Required: Student Petition.					
OC NCT	WLD-110-06	341966 TTH		1-4:50 PM		
	B. MULLIGAN	\$520.00	\$52.00	\$432.00	\$1,004.00	
	Required: Student Petition.					

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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		

OC	WLD-110-07	347178 TTH		12:01 -1:50 AM		
				MW		
	K. DRURY	\$520.00	\$52.00	\$432.00	\$1,004.00	
	Required: Student Petition.					

WLD-111 SHIELDED METAL ARC WELDING (STICK), 8 CREDITS

Provides students with the opportunity to acquire knowledge and skills to set up and operate equipment to perform fillet and groove welds in all positions with the SMAW process. Oxy-fuel cutting, air carbon arc cutting and gouging will be covered. Welding codes, standards, and specifications will be reviewed.

OC NCT	WLD-111-01	341967 MTWTH		6-9:50 PM		
	J. PHELPS	\$1,040.00	\$104.00	\$584.00	\$1,728.00	

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	341973 MW		6-9:50 PM		
	J. PHELPS	\$520.00	\$52.00	\$292.00	\$864.00	
OC NCT	WLD-111A-02	341974 MTWTH		7:30 -9:20 AM		
	R. ABBOTT	\$520.00	\$52.00	\$292.00	\$864.00	
OC NCT	WLD-111A-03	341979 MTWTH		1:15 -3:05 PM		
	R. ABBOTT	\$520.00	\$52.00	\$292.00	\$864.00	
OC NCT	WLD-111A-04	341982 MTWTH		3:30 -5:20 PM		
	R. ABBOTT	\$520.00	\$52.00	\$292.00	\$864.00	

WLD-111B SHIELDED METAL ARC WELDING (STICK), 4 CREDITS

The second half of WLD-111 which provides the opportunity to acquire additional knowledge and skills needed to perform more advanced fillet and groove welds in vertical and overhead positions with the SMAW process. Welding codes, standards, and specifications will be reviewed.

Prerequisites: WLD-111A

OC NCT	WLD-111B-01	341985 TTH		6-9:50 PM		
	J. PHELPS	\$520.00	\$52.00	\$292.00	\$864.00	
OC NCT	WLD-111B-02	341986 MTWTH		7:30 -9:20 AM		
	R. ABBOTT	\$520.00	\$52.00	\$292.00	\$864.00	
OC NCT	WLD-111B-03	341990 MTWTH		1:15 -3:05 PM		
	R. ABBOTT	\$520.00	\$52.00	\$292.00	\$864.00	
OC NCT	WLD-111B-04	341993 MTWTH		3:30 -5:20 PM		
	R. ABBOTT	\$520.00	\$52.00	\$292.00	\$864.00	

WLD-113 GAS METAL ARC WELDING/FLUX CORE ARC WELDING (WIREFEED), 8 CREDITS

Provides students with the opportunity to acquire knowledge and skills to set up and operate equipment to perform fillet and groove welds in all positions with the Gas Metal Arc and Flux Core Arc Welding processes. Oxy-fuel cutting, and air carbon arc cutting and gouging will be covered. Welding codes, standards and specifications will be reviewed.

OC	WLD-113-01	341996 MTWTH		8-11:50 AM		
	R. THOMAS	\$1,040.00	\$104.00	\$584.00	\$1,728.00	

WLD-113A GAS METAL ARC WELDING/FLUX CORE ARC WELDING (WIREFEED), 4 CREDITS

The first half of WLD-113 which provides the opportunity to acquire knowledge and skills to set up and operate equipment to perform fillet welds in flat and horizontal positions with the Gas Metal Arc and Flux Core Arc Welding processes. Oxy-fuel cutting, air carbon arc cutting and gouging will be covered.

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
Instructor	Tuition	Fee	Crs. Fee			
OC	WLD-113A-01 341998 MW				8-11:50 AM	
	R. THOMAS	\$520.00	\$52.00	\$292.00	\$864.00	

WLD-113B GAS METAL ARC WELDING/FLUX CORE ARC WELDING (WIREFEED), 4 CREDITS

The second half of WLD-113 which provides the opportunity to acquire additional knowledge and skills needed to perform more advanced fillet and groove welds in vertical and overhead positions with the Gas Metal Arc and Flux Core Arc Welding processes. Welding codes, standards, and specifications will be reviewed.

Prerequisites: WLD-113A

OC	WLD-113B-01 342000 TTH				8-11:50 AM	
	R. THOMAS	\$520.00	\$52.00	\$292.00	\$864.00	

WLD-115 GAS TUNGSTEN ARC WELDING (GTAW), 8 CREDITS

Provides students with the opportunity to acquire knowledge and skills to set up and operate equipment to perform fillet and groove welds in all positions with the Gas Tungsten Arc Welding process. Plasma arc cutting will be covered. Welding codes, standards, and specifications will be reviewed.

OC	WLD-115-02 345134 TWTHF				12:01 -1:50 AM	
	K. DRURY	\$1,040.00	\$104.00	\$584.00	\$1,728.00	
		0				

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 345135 TTH				12:01 -1:50 AM	
	K. DRURY	\$520.00	\$52.00	\$292.00	\$864.00	
					10-11:59 PM	

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 345136 TTH				10-11:59 PM	
	K. DRURY	\$520.00	\$52.00	\$292.00	\$864.00	
					12:01 -1:50 AM	

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 342002 MW				6-9:50 PM	
	M. TIZO	\$520.00	\$52.00	\$292.00	\$864.00	
OC	WLD-150-02 342005 MW				8-11:50 AM	
	D. PODKOWA	\$520.00	\$52.00	\$292.00	\$864.00	

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

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
Instructor	Tuition	Fee	Crs. Fee			
	Provides instruction in reading and interpretation of prints and symbols common in welding industry. Participants will learn interpretation and application of blueprint views. Includes basic layout techniques and math review. American Welding Society symbols, International Standards Organization symbols, pipe welding symbols, and inspection symbols are covered.					

Prerequisites: WLD-100

OC	WLD-200-01 342007 T				2-5:00 PM	
	D. PODKOWA	\$390.00	\$39.00	\$219.00	\$648.00	

WLD-210 PIPE WELDING, 4 CREDITS

Provides beginning theory and practical instruction in the Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux Core Arc Welding (FCAW), or Gas Tungsten Arc Welding (GTAW) processes on steel plate and pipe. The specific projects include: stringer beads, fillet and groove welds on plate with root and cover proficiency, pipe cutting using the oxy-fuel process, pipe beveling and groove welds on pipes in all positions. The student may choose which process or processes will be used to complete the lab assignments.

Prerequisites: WLD-111, or WLD-111A and WLD-111B. WLD-113, or WLD-113A and WLD-113B. WLD-115, or WLD-115A and WLD-115B. WLD-150 or prior experience in SMAW, GMAW, FCAW, or GTAW

OC NCT	WLD-210-01 342010 MW				1-4:50 PM	
	R. THOMAS	\$520.00	\$52.00	\$292.00	\$864.00	
	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 342012 TTH				6-9:50 PM	
	B. MULLIGAN	\$520.00	\$52.00	\$292.00	\$864.00	

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 342014 MW				1-4:50 PM	
	R. THOMAS	\$520.00	\$52.00	\$292.00	\$864.00	
	Required: Student Petition.					

WLD-213 ADVANCED GAS METAL ARC WELDING/FLUX CORE ARC WELDING, 4 CREDITS

This course provides the opportunity for students to acquire the knowledge and skills needed to perform quality fillet and groove welds in all positions using the Gas Metal Arc Welding (GMAW) and Flux Core Arc Welding (FCAW) processes. Advanced welding theory and procedures will also be included.

Prerequisites: WLD-113; or WLD-113A and WLD-113B

OC NCT	WLD-213-01 342015 TTH				8-11:50 AM	
	D. BATES	\$520.00	\$52.00	\$292.00	\$864.00	

WLD-250 WELDING FABRICATION I BEGINNING PROJECT, 4 CREDITS

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

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

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

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

Course Listing

2025/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
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 B. MULLIGAN	342017	TTH			1-4:50 PM	
				\$520.00	\$52.00	\$292.00	\$864.00
WLD-251	WELDING FABRICATION II INTERMEDIATE PROJECT, 4 CREDITS						
This course consists of lecture and lab. Students will use the skills learned in WLD-250, such as blueprint reading, layout, sketching, bills of materials, job cost calculations, measuring, fitting, cutting and welding, and apply them to more challenging projects. Students will be assigned intermediate fabrication projects. The student will be responsible for all aspects of managing the project to successful completion.							
Prerequisites: WLD-250							
OC NCT	WLD-251-01 B. MULLIGAN	342021	TTH			1-4:50 PM	
				\$520.00	\$52.00	\$292.00	\$864.00
WLD-252	WELDING FABRICATION III ADVANCED PROJECT, 4 CREDITS						
This course consists of lecture and lab. Students will use the skills learned in WLD-250 and WLD-251, such as blueprint reading, layout, sketching, bills of materials, job cost calculations, measuring, fitting, cutting and welding, and apply them to advanced projects. Students will be assigned advanced fabrication projects. The student will be responsible for all aspects of managing the project to successful completion.							
Prerequisites: WLD-251							
OC NCT	WLD-252-01 B. MULLIGAN	342024	TTH			1-4:50 PM	
				\$520.00	\$52.00	\$292.00	\$864.00
WLD-261	WELDING SPECIAL PROJECTS, 1-2 CREDITS (VAR)						
Allows students to improve their welding skills while working on instructor-approved projects. May be repeated for up to 12 credits.							
OC NCT	WLD-261-01 R. THOMAS	342026	M	\$260.00	\$26.00	8-11:50 AM	\$432.00V
	Required: Student Petition.						
OC NCT	WLD-261-02 R. THOMAS	342030	M	\$260.00	\$26.00	1-4:50 PM	\$432.00V
	Required: Student Petition.						
OC NCT	WLD-261-03 J. PHELPS	342033	M	\$260.00	\$26.00	6-9:50 PM	\$432.00V
	Required: Student Petition.						
OC NCT	WLD-261-05 R. THOMAS	342045	T	\$260.00	\$26.00	8-11:50 AM	\$432.00V
	Required: Student Petition.						
OC NCT	WLD-261-07 J. PHELPS	342035	T	\$260.00	\$26.00	6-9:50 PM	\$432.00V
	Required: Student Petition.						
OC NCT	WLD-261-08 K. DRURY	345139	T W	\$260.00	\$26.00	10-11:59 PM 12:01 -1:50 AM	\$432.00V
	Required: Student Petition.						
OC NCT	WLD-261-09 R. THOMAS	342036	W	\$260.00	\$26.00	8-11:50 AM	\$432.00V
	Required: Student Petition.						

Campus Locations:
HAR: Harmony Community Campus
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ESPAÑOL: Enseñado en español
LCT: Low-Cost Text
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Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
Instructor	Tuition	Fee	Crs. Fee			
OC NCT	WLD-261-10	342037 W			1-4:50 PM	
	R. THOMAS	\$260.00	\$26.00	\$146.00	\$432.00V	
	Required: Student Petition.					
OC NCT	WLD-261-11	342038 W			6-9:50 PM	
	J. PHELPS	\$260.00	\$26.00	\$146.00	\$432.00V	
	Required: Student Petition.					
OC NCT	WLD-261-13	342046 TH			8-11:50 AM	
	R. THOMAS	\$260.00	\$26.00	\$146.00	\$432.00V	
	Required: Student Petition.					
OC NCT	WLD-261-14	345141 TH			1-4:50 PM	
	B. MULLIGAN	\$260.00	\$26.00	\$146.00	\$432.00V	
	Required: Student Petition.					
OC NCT	WLD-261-15	342039 TH			6-9:50 PM	
	J. PHELPS	\$260.00	\$26.00	\$146.00	\$432.00V	
	Required: Student Petition.					
OC NCT	WLD-261-16	345142 TH			10-11:59 PM	
		F			12:01 -1:50 AM	
	K. DRURY	\$260.00	\$26.00	\$146.00	\$432.00V	
	Required: Student Petition.					
OC NCT	WLD-261-19	342040 F			6-9:50 PM	
	M. TIZO	\$260.00	\$26.00	\$146.00	\$432.00V	
	Required: Student Petition.					
OC NCT	WLD-261-20	342041 S			9-12:50 PM	
	K. DRURY	\$260.00	\$26.00	\$146.00	\$432.00V	
	Required: Student Petition.					
OC NCT	WLD-261-21	342042 S			2-5:50 PM	
	K. DRURY	\$260.00	\$26.00	\$146.00	\$432.00V	
	Required: Student Petition.					
OC NCT	WLD-261-23	342043 SU			10-1:50 PM	
	M. TIZO	\$260.00	\$26.00	\$146.00	\$432.00V	
	Required: Student Petition.					

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	342047				
	D. BATES	\$780.00	\$78.00	\$45.00	\$903.00V	
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					
XWLD-0001	AMERICAN WELDING SOCIETY (WLD) CERTIFICATION 1 PLATE TEST, 0 CREDIT					
Welder certification in accordance with AWS D1.1 for one position for students enrolled in any CCC welding course.						
oc	XWLD-0001-01	342112 TBA				
	B. MULLIGAN	\$0.00	\$0.00	\$140.00	\$140.00	
	Required: Student Petition.					
XWLD-0002	AMERICAN WELDING SOCIETY CERTIFICATION 2 PLATE OR 1 PIPE TEST, 0 CREDIT					
Welder certification in any two positions, in accordance with AWS D1.1 for students enrolled in any CCC welding course.						
oc	XWLD-0002-01	342114 TBA				
	B. MULLIGAN	\$0.00	\$0.00	\$280.00	\$280.00	
	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
XWLD-0003	AMERICAN WELDING SOCIETY CERTIFICATION RETAKE TEST, 0 CREDIT									
Welder certification on retest in any position, in accordance with AWS D1.1 for students enrolled in any CCC welding course. Required: Student Petition.										

oc	XWLD-0003-01	342116 TBA								
	B. MULLIGAN	\$0.00	\$0.00	\$25.00	\$25.00					
Required: Student Petition.										

Women's Studies

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

Examines the history of the representation of women, the history of US feminism and the development of Women's Studies as an academic discipline. Critically explores social issues relevant to women's lives, including gender-expression, marginalization, reproduction, sexuality, economic status and the experience of violence.

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

OC NCT	WS-101-01	342164 TTH								
	K. SEVERSON	\$520.00	\$52.00	\$0.00	\$572.00					
ONL NCT	WS-101-02	342165								
	K. SEVERSON	\$520.00	\$52.00	\$0.00	\$572.00					

World Languages

ASL-101 FIRST-YEAR AMERICAN SIGN LANGUAGE I, 4 CREDITS

First term of a three-term introductory course. Everyday communication is the centerpiece of each lesson. Topics revolve around sharing information about ourselves and our environment. Grammar is introduced in context, with an emphasis on developing question and answering skills. Strategies are presented to help the student maintain a conversation.

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

oc	ASL-101-01	341251 MW								
	A. ELLIS	\$520.00	\$52.00	\$10.00	\$582.00					
One-time textbook purchase for ASL-101 & ASL-102.										
oc	ASL-101-02	341255 MW								
	A. ELLIS	\$520.00	\$52.00	\$10.00	\$582.00					
One-time textbook purchase for ASL-101 & ASL-102.										
ONL	ASL-101-03	341258								
	A. ELLIS	\$520.00	\$52.00	\$10.00	\$582.00					
One-time textbook purchase for ASL-101 & ASL-102.										

ASL-102 FIRST-YEAR AMERICAN SIGN LANGUAGE II, 4 CREDITS

Second term of a three-term introductory course. Emphasis will be on increasing communicative abilities. Course will focus on language functions such as making requests, describing others, and/or telling a short story. Grammar and vocabulary will also be emphasized throughout the course.

Prerequisites: ASL-101 with a C or better

ONL	ASL-102-01	341260								
	A. ELLIS	\$520.00	\$52.00	\$10.00	\$582.00					
One-time textbook purchase for ASL-101 & ASL-102.										

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.

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Prerequisites: ASL-103 with a C or better

REM	ASL-201-01	341261 TTH								
	A. ELLIS	\$520.00	\$52.00	\$10.00	\$582.00					
One-time textbook purchase for ASL-103 & ASL-201.										

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	341573 TTH								
	E. HERNANDEZ	\$520.00	\$52.00	\$10.00	\$582.00					

FR-201 SECOND-YEAR FRENCH I, 4 CREDITS

The second year of academic French expands on first-year French in the review of essential grammar structures, the use of more advanced grammar, and cross-cultural discussion and analysis. Emphasis is on communication skills, stressing both oral proficiency and written expression.

Prerequisites: FR-103

OC NCT	FR-201-01	341577 TTH								
	E. HERNANDEZ	\$520.00	\$52.00	\$10.00	\$582.00					

FR-211 INTERMEDIATE FRENCH CONVERSATION, 3 CREDITS

First term of a three-term series in intermediate development of speaking and listening proficiency through creative activities such as discussions of excerpts from contemporary French-language media, presentations, games, role-plays, debates, pair and group work. This course is ideally suited as a language elective or for personal enrichment. Materials, topics and level of difficulty will parallel work in FR-201.

Prerequisites: FR-103 with a C or better

OC NCT	FR-211-01	341579 TTH								
	E. HERNANDEZ	\$390.00	\$39.00	\$10.00	\$439.00					

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	341690 MW								
	T. NIKOLOPOULOS	\$520.00	\$52.00	\$10.00	\$582.00					

SPN-101 FIRST-YEAR SPANISH I, 4 CREDITS

First of a three-term foundational, multimedia course for beginners. Initial emphasis is on speaking and listening comprehension, with secondary emphasis on reading and writing. Various cultural themes are presented.

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

OC NCT	SPN-101-01	342016 TTH								
	A. METHADZOVIC	\$520.00	\$52.00	\$10.00	\$582.00					
OC NCT	SPN-101-02	342018 TTH								
	A. METHADZOVIC	\$520.00	\$52.00	\$10.00	\$582.00					
ONL NCT	SPN-101-03	342019								
	E. HERNANDEZ	\$520.00	\$52.00	\$10.00	\$582.00					
ONL NCT	SPN-101-04	345187								
	A. METHADZOVIC	\$520.00	\$52.00	\$10.00	\$582.00					

Course Listing

2025/FA

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
		Instructor		Tuition Fee	Crs. Fee	
SPN-102	FIRST-YEAR SPANISH II, 4 CREDITS					
Second of a three-term foundational, multimedia course for beginners. Initial emphasis is on speaking and listening comprehension, with secondary emphasis on reading and writing. Various cultural themes are presented.						
Prerequisites: SPN-101						
Recommended Prerequisites: WRD-098 or placement in WR-121Z						
ONL NCT	SPN-102-01 342020	A. METHADZOVIC		\$520.00 \$52.00	\$10.00	\$582.00
SPN-201	SECOND-YEAR SPANISH I, 4 CREDITS					
First of a three-term intermediate, multimedia course. Focus is on speaking, listening comprehension, reading and writing. Explores cultural differences among Spanish-speaking countries and between the latter and European-American culture.						
Prerequisites: SPN-103 or Student Petition						
ONL NCT	SPN-201-01 342022	V. SHORT		\$520.00 \$52.00	\$10.00	\$582.00

Writing

WR-101	WORKPLACE WRITING, 4 CREDITS					
Students in this course learn and practice basic modes of technical writing, including summaries, process analysis, instructions, and reports.						
Prerequisites: WRD-098 or placement in WR-101 or WR-121Z						
OC HYB LCT	WR-101-01 342034 T	L. ORMANDY		\$520.00 \$52.00	\$19.00	\$591.00
ONL LCT	WR-101-02 342048	C. ZIMMERLY-BECK		\$520.00 \$52.00	\$19.00	\$591.00
WR-121Z	COMPOSITION I, 4 CREDITS					
WR-121Z engages students in the study and practice of critical thinking, reading, and writing. The course focuses on analyzing and composing across varied rhetorical situations and in multiple genres. Students will apply key rhetorical concepts flexibly and collaboratively throughout their writing and inquiry processes.						
Prerequisites: WRD-098 or placement in WR-121Z						
OC LCT	WR-121Z-01 342049 MW	E. WILDER-TACK		\$520.00 \$52.00	\$19.00	\$591.00
OC LCT	WR-121Z-02 342054 MW	J. DAVIS		\$520.00 \$52.00	\$19.00	\$591.00
OC LCT	WR-121Z-03 342056 MW	TBA		\$520.00 \$52.00	\$19.00	\$591.00
OC LCT	WR-121Z-04 342058 TTH	S. WARREN		\$520.00 \$52.00	\$19.00	\$591.00
OC LCT	WR-121Z-05 342060 TTH	J. BEREZHNOY		\$520.00 \$52.00	\$19.00	\$591.00
OC LCT	WR-121Z-06 342062 TTH	J. BEREZHNOY		\$520.00 \$52.00	\$19.00	\$591.00
OC LCT	WR-121Z-07 342065 TTH	M. SCHUMACHER		\$520.00 \$52.00	\$19.00	\$591.00
OC HYB LCT	WR-121Z-08 342066 M	C. BURNELL		\$520.00 \$52.00	\$19.00	\$591.00
OC HYB LCT	WR-121Z-09 342069 M	C. BURNELL		\$520.00 \$52.00	\$19.00	\$591.00
OC HYB LCT	WR-121Z-10 342071 M	M. SCHUMACHER		\$520.00 \$52.00	\$19.00	\$591.00
OC HYB	WR-121Z-11 342073 T	TBA		\$520.00 \$52.00	\$19.00	\$591.00

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
		Instructor		Tuition Fee	Crs. Fee	
OC HYB	WR-121Z-12 342075 T	S. WARREN		\$520.00 \$52.00	\$19.00	\$591.00
OC HYB LCT	WR-121Z-13 342077 T	S. WARREN		\$520.00 \$52.00	\$19.00	\$591.00
OC HYB LCT	WR-121Z-14 342079 W	W. DAWKINS		\$520.00 \$52.00	\$19.00	\$591.00
HAR LCT	WR-121Z-15 342081 MW	J. PONS		\$520.00 \$52.00	\$19.00	\$591.00
HAR HYB	WR-121Z-16 342085 M	M. SCHUMACHER		\$520.00 \$52.00	\$19.00	\$591.00
ONL LCT	WR-121Z-17 342088	M. WARREN		\$520.00 \$52.00	\$19.00	\$591.00
ONL LCT	WR-121Z-18 342090	T. DODGE		\$520.00 \$52.00	\$19.00	\$591.00
ONL LCT	WR-121Z-19 342092	T. DODGE		\$520.00 \$52.00	\$19.00	\$591.00
ONL LCT	WR-121Z-20 342094	T. DODGE		\$520.00 \$52.00	\$19.00	\$591.00
ONL LCT	WR-121Z-21 342095	R. MURPHY		\$520.00 \$52.00	\$19.00	\$591.00
ONL LCT	WR-121Z-22 342096	R. DAVIS		\$520.00 \$52.00	\$19.00	\$591.00
ONL LCT	WR-121Z-23 342098	R. DAVIS		\$520.00 \$52.00	\$19.00	\$591.00
ONL LCT	WR-121Z-24 342099	R. DAVIS		\$520.00 \$52.00	\$19.00	\$591.00
ONL	WR-121Z-25 342100	B. EHLERS		\$520.00 \$52.00	\$19.00	\$591.00

WR-122Z COMPOSITION II, 4 CREDITS

WR-122Z builds on concepts and processes emphasized in WR-121Z, engaging with inquiry, research, and argumentation in support of students' development as writers. The course focuses on composing and revising in research-based genres through the intentional use of rhetorical strategies. Students will find, evaluate, and interpret complex material, including lived experience; use this to frame and pursue their own research questions; and integrate material purposefully into their own compositions.

Prerequisites: WR-121Z with a C or better

OC LCT	WR-122Z-01 342109 MW	J. BRYANT-TRERISE		\$520.00 \$52.00	\$19.00	\$591.00
OC LCT	WR-122Z-02 342113 TTH	R. MURPHY		\$520.00 \$52.00	\$19.00	\$591.00
OC LCT	WR-122Z-03 342115 TTH	M. SCHUMACHER		\$520.00 \$52.00	\$19.00	\$591.00
OC HYB	WR-122Z-04 342117 M	S. NIZIOLEK		\$520.00 \$52.00	\$19.00	\$591.00
OC HYB	WR-122Z-05 342118 T	R. MURPHY		\$520.00 \$52.00	\$19.00	\$591.00
OC HYB LCT	WR-122Z-06 342120 W	S. NIZIOLEK		\$520.00 \$52.00	\$19.00	\$591.00
ONL	WR-122Z-07 342121	M. WARREN		\$520.00 \$52.00	\$19.00	\$591.00
ONL LCT	WR-122Z-08 342122	R. MURPHY		\$520.00 \$52.00	\$19.00	\$591.00
ONL LCT	WR-122Z-09 342124	S. PESZNECKER		\$520.00 \$52.00	\$19.00	\$591.00
ONL LCT	WR-122Z-10 342125	C. BURNELL		\$520.00 \$52.00	\$19.00	\$591.00

WR-124ES ESCRITURA DE ENSAYOS DE NIVEL UNIVERSITARIO EN ESPAÑOL, 4 CREDITS

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
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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				
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.								ONL LCT	WR-227Z-04	342135	J. MCALPINE				
Required: Estudiantes deben leer y escribir a nivel universitario, en Español, antes de comenzar el curso								ONL	WR-227Z-05	342136	J. MCALPINE	\$520.00	\$52.00	\$19.00	\$591.00
Prerequisites: WRD-098ES o tener un nivel de evaluación de WR-124ES								ONL	WR-227Z-06	347218	TBA	\$520.00	\$52.00	\$19.00	\$591.00
Recommended Prerequisite or Corequisite: FYE-101ES								WR-241 FICTION WRITING I, 4 CREDITS							
								Introduction to the theory, art and creative practice of fiction writing, with specific emphasis on short prose forms.							
								Prerequisites: WRD-098 or placement in WR-121Z							
REM LCT	WR-124ES-01	342128	TH				5-6:00 PM	OC HYB LCT	WR-241-01	342138	T			1-2:50 PM	
ESPAÑOL	A. DEFREESE			\$520.00	\$52.00	\$19.00	\$591.00		N. ROSEVEAR			\$520.00	\$52.00	\$19.00	\$591.00
Meets remotely 10/2, 10/30, & 11/20; additional hours completed online.								WR-246 PUBLISHING LITERATURE: READING AND REVISING FOR PUBLICATION, 4 CREDITS							
WR-127 SCHOLARSHIP ESSAY WRITING, 1 CREDIT								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.							
Introduces scholarship resources and the application process. Examines and applies the concept of 'telling the story of me,' and drafting, revising, and editing a complete scholarship application essay.								Prerequisites: WRD-098 or placement in WR-121Z							
ONL LCT	WR-127-01	342129						oc	WR-246-01	345320	TTH			10-11:50 AM	
	S. PESZNECKER		\$0.00	\$0.00	\$19.00	\$19.00			M. WARREN			\$520.00	\$52.00	\$60.00	\$632.00
Meets: 9/29-10/31.								WR-270 CREATIVE NONFICTION WRITING II: FOOD WRITING, 4 CREDITS							
WR-128 INTRODUCTION TO APA STYLE & DOCUMENTATION, 1 CREDIT								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.							
Introduces American Psychological Association (APA) style and documentation, including document format, in-text citation, and References page. Includes style and documentation for narrative and academic papers. Students will work with provided sources. Recommended for pre-nursing and nursing students, allied health students, and STEM and social science students.								Recommended Prerequisites: WRD-098 or placement in WR-121Z							
Prerequisites: WR-121Z with a C or better								ONL LCT	WR-270-01	342139					
ONL LCT	WR-128-01	342130							N. ROSEVEAR			\$520.00	\$52.00	\$19.00	\$591.00
	S. PESZNECKER		\$0.00	\$0.00	\$19.00	\$19.00		WRD-090 INTRODUCTORY COLLEGE READING & WRITING 1, 4 CREDITS							
WR-140 INTRODUCTION TO WRITING CREATIVELY, 4 CREDITS								Students discuss a variety of short, pre-college-level readings, and learn a process for developing their own paragraphs and very short essays (up to two pages). Other topics include becoming an independent reader, summarizing, and writing academically.							
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.								Prerequisites: Placement in WRD-090							
Recommended Prerequisites: WRD-098 or placement in WR-121Z								OC LCT	WRD-090-01	342140	MW			10-11:50 AM	
OC HYB LCT	WR-140-01	342131	TTH				3-4:50 PM		W. DAWKINS			\$520.00	\$52.00	\$19.00	\$591.00
	R. DAVIS		\$520.00	\$52.00	\$19.00	\$591.00		OC LCT	WRD-090-02	342142	TTH			1-2:50 PM	
WR-227Z TECHNICAL WRITING, 4 CREDITS									A. WARREN			\$520.00	\$52.00	\$19.00	\$591.00
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.								ONL LCT	WRD-090-03	342144					
Prerequisites: WR-121Z with a C or better									A. WARREN			\$520.00	\$52.00	\$19.00	\$591.00
OC LCT	WR-227Z-01	342132	TTH				10-11:50 AM	WRD-098 INTRODUCTORY COLLEGE READING & WRITING 2, 4 CREDITS							
	L. ORMANDY		\$520.00	\$52.00	\$19.00	\$591.00		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.							
OC HYB LCT	WR-227Z-02	342133	T				3-4:50 PM	Prerequisites: WRD-090 or placement in WRD-098							
	L. ORMANDY		\$520.00	\$52.00	\$19.00	\$591.00		OC LCT	WRD-098-01	342146	MW			1-2:50 PM	
ONL LCT	WR-227Z-03	342134							E. WILDER-TACK			\$520.00	\$52.00	\$19.00	\$591.00
	A. WARREN		\$520.00	\$52.00	\$19.00	\$591.00		OC LCT	WRD-098-02	342148	TTH			10-11:50 AM	
									J. PONS			\$520.00	\$52.00	\$19.00	\$591.00

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Course Listing

2025/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		
ONL LCT	WRD-098-03	342150														
	M. WARREN		\$520.00	\$52.00	\$19.00	\$591.00										
ONL LCT	WRD-098-04	342152														
	M. WARREN		\$520.00	\$52.00	\$19.00	\$591.00										
ONL LCT	WRD-098-05	347219														
	M. WARREN		\$520.00	\$52.00	\$19.00	\$591.00										
HAR LCT	WRD-098-15	342158 MW														
	J. PONS		\$520.00	\$52.00	\$19.00	\$591.00										

WRD-098ES INTRODUCCIÓN A LA LECTURA Y ESCRITURA DE NIVEL UNIVERSITARIO 2, 4 CREDITS

Preparación para la escritura a nivel de cursos universitarios. El alumnado dialogará sobre una variedad de lecturas, en español, a nivel introductorio o pre-universitario, desarrollarán y perfeccionarán sus ensayos (máximo de tres páginas) por medio del proceso de revisión y múltiples bosquejos. Otros temas incluyen: tener confianza como lector, buscar y encontrar información, y citar las fuentes por medio de citas informales.

Prerequisites: Tener un nivel de evaluación de WRD-098ES

ONL ESPAÑOL	WRD-098ES-01	342162				
	A. DEFRESE		\$520.00	\$52.00	\$19.00	\$591.00

XWR-0001 CHRYSALIS WOMEN WRITERS, 0 CREDIT

This club is for CCC students and non-students to support the creation of, practice of, and critique of creative writing. An honest and supportive critique group, welcomes both new and established women writers. Newcomers are welcome to attend without reading their own work until they are comfortable doing so. This workshop is led by local author Patricia Lichen.

OC HYB LCT	XWR-0001-01	342169 W				
	P. LICHEN		\$0.00	\$0.00	\$0.00	\$0.00
This workshop will be held via Zoom.						

Zoology

Z-201 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.

Prerequisites: MTH-095 or placement in MTH-111Z

Corequisites: Z-201L

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

oc	Z-201-01	342119 MW				
	J. BOWN		\$520.00	\$52.00	\$55.00	\$627.00

Z-201L GENERAL ZOOLOGY LAB, 0 CREDIT

Lab course for Z-201

Corequisites: Z-201

oc	Z-201L-01	342123 W				
	J. BOWN		\$0.00	\$0.00	\$0.00	\$0.00

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COMMUNITY EDUCATION

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

Back this fall by popular demand!

The Northstar Basic Computer Skills courses are returning to the Clackamas Community College Harmony campus this fall! Community Education is excited to bring back this popular offering, along with a brand-new class designed to help learners take the next step in their digital literacy knowledge.

Internet Basics is a beginner-level course for those who want to build confidence and use the internet more effectively. Topics include how to connect to the internet, navigate websites and internet privacy. It's a great next step for anyone who has completed the Basic Computer Skills course or wants to improve their digital confidence. Curriculum is taught over nine weeks through interactive lessons.

Basic Computer Skills will be available in both English and Spanish, with Internet Basics offered in English.

Registration is expected to open in August and will be available through the Clackamas Community College online registration system.

All classes will be held at the Harmony campus.

For more information before registration opens, contact Community Education at 503-594-6705 or communityeducation@clackamas.edu.

Community Education strives to be a low-cost option for the district, with partners in many locations. If you would like to suggest a class please visit our website at www.clackamas.edu/suggest-a-community-ed-class.

CANBY

Bridging Cultures

503-592-3781 | www.bridgingculturescanby.org

GLADSTONE

Gladstone Community School

503-650-2570 | www.clackamas.edu/gladstone

MILWAUKIE

Milwaukie Community Center

503-794-8092 | www.ncprd.com

North Clackamas Parks and Recreation

503-794-8080, ext. 0 | www.ncprd.com

OREGON CITY

Oregon City Community Education

503-785-8520 | <https://ocsd62occe.org>

Oregon City Swimming Pool

503-657-8273 | www.ocity.org/904/Aquatics

Pioneer Community Center

503-657-8287 | www.ocity.org/499/Pioneer-Community-Center

TEAM OREGON

Motorcycle/Scooter Safety Training

800-545-9944 | www.team-oregon.org

WEST LINN

West Linn Parks and Recreation

503-557-4700 | www.westlinnoregon.gov/parksrec

WILSONVILLE

City of Wilsonville Parks and Recreation

503-783-PLAY | www.wilsonvilleparksandrec.com/parksrec

West Linn/Wilsonville Family Empowerment Center

503-673-7690 | www.wlww.k12.or.us/domain/3726



Senior Discount

Seniors 62 years of age or older qualify for discounted tuition for many Community Education classes. Proof of age is required.