



# Schedule

Summer  
2026



Summer term classes begin June 22 • [www.clackamas.edu](http://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



<b>CLASS START/END DATES + FINANCIAL DEADLINES *</b>	<b>SUMMER TERM 2026</b>	<b>FALL TERM 2026</b>	<b>WINTER TERM 2027</b>
<b>Financial aid:</b> All required CCC financial aid documentation due to ensure funding for term	March 30	June 22	September 28
<b>Registration begins</b>	May 11	May 18	November 16
<b>Classes begin</b>	June 22	Sept. 28	January 4
Last day to add classes without instructor consent	Instructor consent required once course begins		
Last day to drop a class with a refund	July 5	Oct. 11	January 17
Last day to drop classes and receive a "W" automatically	August 14	Nov. 20	February 26
Last day to submit petition for graduation	July 31	Nov. 6	February 12
Last day to change grading option	August 28	Dec. 4	March 12
Account balance due: \$100 non-payment fee applied if not paid	August 3	Nov. 6	February 12
<b>Final week</b>	see course syllabus	Dec. 7-11	March 15-20
<b>Last day of term</b>	Sept. 5	Dec. 12	March 20
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

<b>SUMMER TERM:</b> June 19 Juneteenth, July 2 Independence Day
<b>FALL TERM:</b> Sept. 7 Labor Day, Nov. 11 Veterans Day, Nov. 26-27 Thanksgiving, Dec. 24-25 Winter Holiday
<b>WINTER TERM:</b> Jan. 1 New Year's Day, Jan. 18 Martin Luther King Jr. Day, Feb. 15 Presidents 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 Summer 2026

## Harmony Community Campus

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

### Biology

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

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

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

### Criminal Justice

CJA-101	CRIMINOLOGY	4 CREDITS
CJA-201	JUVENILE DELINQUENCY	4 CREDITS
CJA-215	SEXUAL ABUSE AND HUMAN TRAFFICKING	3 CREDITS

### Emergency Medical Technology

EMT-105	INTRODUCTION TO EMERGENCY MEDICAL SERVICES	3 CREDITS
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### English for Speakers of Other Languages

ESOL-012	BEGINNING ESOL	0 CREDIT
ESOL-013	BEGINNING ESOL	0 CREDIT
ESOL-015	BEGINNING READING, WRITING, AND GRAMMAR	0 CREDIT
ESOL-020	UPPER BEGINNING GRAMMAR	0 CREDIT
ESOL-022	UPPER BEGINNING CONVERSATION	0 CREDIT
ESOL-030	INTERMEDIATE GRAMMAR A	0 CREDIT
ESOL-031	INTERMEDIATE GRAMMAR B	0 CREDIT
ESOL-033	INTERMEDIATE CONVERSATION 2	0 CREDIT
ESOL-043	UPPER INTERMEDIATE CONVERSATION 2	0 CREDIT
ESOL-050	ADVANCED GRAMMAR A	0 CREDIT
ESOL-053	ADVANCED COMMUNICATION SKILLS 2	0 CREDIT
ESOL-082	ASSESS/EVALUATE NEW STUDENTS	0 CREDIT

ESOL-083	EDUCATIONAL PLANNING FOR RETURNING STUDENTS	0 CREDIT
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### Family Studies

HDF-260	UNDERSTANDING CHILD ABUSE AND NEGLECT	3 CREDITS
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### 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

### Health Professions

HP-100	HEALTHCARE PROVIDER BLS/CPR, FIRST AID/BLOODBORNE PATHOGENS	1 CREDIT
HP-110	MEDICAL TERMINOLOGY	4 CREDITS

### Mathematics

MTH-060	ALGEBRA I	4 CREDITS
MTH-065	ALGEBRA II	4 CREDITS

### Phlebotomy

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

### Small Business Development Center

SBM-010	REAL ESTATE BROKER LICENSE	0 CREDIT
SBM-011	PROPERTY MANAGEMENT PRE-LICENSE	0 CREDIT
XSBM-0003	GOING INTO BUSINESS	0 CREDIT
XSBM-0005	GOING OUT OF BUSINESS	0 CREDIT
XSBM-0010	PREPARING FOR THE CCB EXAM	0 CREDIT
XSBM-0011	QUICKBOOKS PRO: PART I	0 CREDIT
XSBM-0012	QUICKBOOKS PRO: PART II	0 CREDIT
XSBM-0024	CONSTRUCTION BUSINESS FUNDAMENTALS: ACCURATE ESTIMATING & FINANCIAL RECORDS	0 CREDIT

### Writing

WR-121Z	COMPOSITION I	4 CREDITS
WR-122Z	COMPOSITION II	4 CREDITS

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

# COURSE LISTING

Credit and non-credit Courses offered Summer 2026

## Art

### ART-100A JEWELRY MAKING TECHNIQUES, 1 CREDIT

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

OC NCT	ART-100A-01	348580	TTH	1-5:20 PM	
	J. IJIMA	\$136.00	\$14.00	\$50.00	\$200.00
Meets: 8/18-8/27. Focuses on Lost Wax Casting.					

### 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	348584	MTWTH	10-2:30 PM	
	R. KALMAN	\$544.00	\$56.00	\$110.00	\$710.00
Meets: 7/13-8/6. This class will use oil paints.					

### 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	348588	MTWTH	10-2:30 PM	
	R. KALMAN	\$544.00	\$56.00	\$110.00	\$710.00
Meets: 7/13-8/6. This class will use oil paints.					

## Auto Body/Collision Repair and Refinishing

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

### 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	348567			
	M. HOUSE	\$816.00	\$84.00	\$45.00	\$945.00V
Required: Student Petition. Corequisite: Take the following CWE-281-06.					

## Automotive Service Technology

**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

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

### 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	348577			
	N. ROBERTS	\$816.00	\$84.00	\$45.00	\$945.00V
Required: Student Petition. Corequisite: Take the following CWE-281-06.					

## Biology

### BI-101 GENERAL BIOLOGY; CELLULAR BIOLOGY, 4 CREDITS

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

Corequisites: BI-101L

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

ONL	BI-101-40	348594			
	E. DEBEY	\$544.00	\$56.00	\$55.00	\$655.00
Labs are completed at home using a kit provided by the college.					

### BI-101L GENERAL BIOLOGY; CELLULAR BIOLOGY LAB, 0 CREDIT

Lab course for BI-101

Corequisites: BI-101

ONL	BI-101L-40	348595			
	E. DEBEY	\$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	348596			
	N. SEFCIKOVA	\$544.00	\$56.00	\$55.00	\$655.00

### BI-102L GENERAL BIOLOGY; ANIMAL SYSTEMS LAB, 0 CREDIT

Lab course for BI-102

Corequisites: BI-102

ONL	BI-102L-40	348600			
	N. SEFCIKOVA	\$0.00	\$0.00	\$0.00	\$0.00

### BI-103 GENERAL BIOLOGY; PLANTS & THE ECOSYSTEM, 4 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

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	<b>BI-103-40</b>	<b>348603</b>				
	K. OSTLUND		\$544.00	\$56.00	\$55.00	\$655.00

**BI-103L GENERAL BIOLOGY; PLANTS & THE ECOSYSTEM LAB, 0 CREDIT**

Lab course for BI-103

**Corequisites:** BI-103

ONL	<b>BI-103L-40</b>	<b>348606</b>				
	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-231Z and BI-234.

**Corequisites:** BI-112L

**Recommended Corequisite:** CH-112Z

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

ONL	<b>BI-112-15</b>	<b>348608</b>				
	K. OSTLUND		\$544.00	\$56.00	\$55.00	\$655.00

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

Lab course for BI-112

**Corequisites:** BI-112

HAR	<b>BI-112L-15</b>	<b>348609 W</b>			<b>9-11:50 AM</b>	
	K. OSTLUND		\$0.00	\$0.00	\$0.00	\$0.00

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

Lab course for BI-232Z

**Corequisites:** BI-232Z

OC HYB	<b>BI-232LZ-01</b>	<b>348614 TH</b>			<b>2:30 -5:20 PM</b>	
	J. GALLEGOS		\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 6/22-8/22.					

**BI-232Z HUMAN ANATOMY AND PHYSIOLOGY II, 4 CREDITS**

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

**Prerequisites:** BI-231Z with a C or better

**Corequisites:** BI-232LZ

oc	<b>BI-232Z-01</b>	<b>348610 T</b>			<b>1:30 -4:30 PM</b>	
	B. KOP		\$544.00	\$56.00	\$55.00	\$655.00

**BI-233LZ HUMAN ANATOMY AND PHYSIOLOGY III LAB, 0 CREDIT**

**Campus Locations:**

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

**Distance Education Notification:**

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

**Other Coding Translations:**

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

**ESPAÑOL:** Enseñado en español

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

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

Lab course for BI-233Z

**Corequisites:** BI-233Z

OC HYB	<b>BI-233LZ-20</b>	<b>348620 TH</b>			<b>6:30 -9:20 PM</b>	
	J. GALLEGOS		\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 6/22-8/22.					

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

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

**Prerequisites:** BI-232Z with a C or better

**Corequisites:** BI-233LZ

OC HYB	<b>BI-233Z-20</b>	<b>348617 T</b>			<b>6:30 -9:20 PM</b>	
	B. KOP		\$544.00	\$56.00	\$55.00	\$655.00

**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-104Z and CH-124Z, or CH-112Z, or CH-221Z and CH-227Z

ONL	<b>BI-234-40</b>	<b>348621</b>				
	A. KAPILA		\$544.00	\$56.00	\$170.00	\$770.00

**BI-234L INTRODUCTORY MICROBIOLOGY LAB, 0 CREDIT**

Lab course for BI-234

**Corequisites:** BI-234

ONL	<b>BI-234L-40</b>	<b>348623</b>				
	A. KAPILA		\$0.00	\$0.00	\$0.00	\$0.00

**Business Administration**

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

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

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

ONL	<b>BA-101Z-01</b>	<b>348490</b>				
	J. AMAN		\$544.00	\$56.00	\$51.67	\$651.67
	Meets: 6/22-8/13. Online textbook included in section fees.					

ONL	<b>BA-101Z-02</b>	<b>348491</b>				
	B. FORNEY		\$544.00	\$56.00	\$51.67	\$651.67
	Online textbook included in section fees.					

REM	<b>BA-101Z-03</b>	<b>348492 T</b>			<b>3-4:50 PM</b>	
	S. RAHN		\$544.00	\$56.00	\$51.67	\$651.67
	Meets: 6/22-8/13. Online textbook included in section fees.					

**BA-111 GENERAL ACCOUNTING I, 3 CREDITS**

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	
<p>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.</p> <p><b>Recommended Prerequisite or Corequisite:</b> BA-101Z and BA-131  <b>Recommended Prerequisites:</b> Placement in MTH-020</p>							<p><b>Recommended Prerequisites:</b> BA-131 and WR-121Z</p>						
ONL	<b>BA-111-01</b> 348493 J. SAN-CLAIRE	\$408.00	\$42.00		\$134.99	\$584.99	ONL NCT	<b>BA-205-01</b> 348497 C. CHATTERTON	\$544.00	\$56.00		\$5.00	\$605.00
<p>Meets: 6/22-8/13. Online textbook included in section fees.</p>							<p>Meets: 6/22-8/13.</p>						
<b>BA-128</b>	<b>PROJECT MANAGEMENT: LEADERSHIP STRATEGIES, 4 CREDITS</b>						<b>BA-206</b>	<b>MANAGEMENT FUNDAMENTALS, 4 CREDITS</b>					
<p>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.</p>							<p>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.</p>						
ONL	<b>BA-128-01</b> 353055 S. RAHN	\$544.00	\$56.00		\$20.00	\$620.00	ONL	<b>BA-206-01</b> 353053 J. AMAN	\$544.00	\$56.00		\$131.08	\$731.08
<p>Meets: 6/22-8/13.</p>							<p>Meets: 6/22-8/13. Online textbook included in section fees.</p>						
<b>BA-131</b>	<b>INTRODUCTION TO BUSINESS COMPUTING, 4 CREDITS</b>						<b>BA-208</b>	<b>EMPLOYEE AND LABOR RELATIONS, 4 CREDITS</b>					
<p>Introductory course using Microsoft Word, Excel, Access, and PowerPoint applications to create business documents.</p> <p><b>Required:</b> 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</p> <p><b>Recommended Prerequisites:</b> WRD-090 or placement in WRD-098</p>							<p>Provides a legal and historical overview of employee and labor relations in both union and non-union environments. Presents a realistic picture of collective bargaining and labor relations situations and highlights contemporary issues in employee relations, unions, bargaining units, and employee group representation.</p>						
ONL	<b>BA-131-01</b> 348494 B. FORNEY	\$544.00	\$56.00		\$137.33	\$737.33	ONL	<b>BA-208-01</b> 348498 M. MOISO	\$544.00	\$56.00		\$51.67	\$651.67
<p>Online textbook included in section fees.</p>							<p>Meets: 6/22-8/13. Online textbook included in section fees.</p>						
ONL	<b>BA-131-02</b> 348495 B. FORNEY	\$544.00	\$56.00		\$137.33	\$737.33	<p><b>BA-211Z</b> <b>PRINCIPLES OF FINANCIAL ACCOUNTING, 4 CREDITS</b></p>						
<p>Online textbook included in section fees.</p>							<p>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.</p> <p><b>Prerequisites:</b> BA-101Z, and BA-131 or BA-169Z  <b>Recommended Prerequisites:</b> BA-111, and MTH-050 or higher</p>						
<b>BA-169Z</b>	<b>DATA ANALYSIS USING MICROSOFT EXCEL, 4 CREDITS</b>						<b>BA-213Z</b>	<b>PRINCIPLES OF MANAGERIAL ACCOUNTING, 4 CREDITS</b>					
<p>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.</p> <p><b>Prerequisites:</b> BA-131 or CS-120 or higher or placement into BA-169Z</p>							<p>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.</p> <p><b>Prerequisites:</b> BA-211Z with a C or better</p>						
ONL	<b>BA-169Z-30</b> 348592 D. HEINIG	\$544.00	\$56.00		\$84.99	\$684.99	ONL	<b>BA-213Z-01</b> 348500 J. SAN-CLAIRE	\$544.00	\$56.00		\$134.99	\$734.99
<p>Meets: 6/22-8/13. Online textbook included in section fees.</p>							<p>Meets: 6/22-8/13. Online textbook included in section fees.</p>						
<b>BA-205</b>	<b>BUSINESS COMMUNICATIONS WITH TECHNOLOGY, 4 CREDITS</b>						<b>BA-218</b>	<b>PERSONAL FINANCE, 4 CREDITS</b>					
<p>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.</p>							<p>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.</p> <p><b>Prerequisites:</b> MTH-050 or higher and WRD-098</p>						
ONL	<b>BA-205-01</b> 353158 J. AMAN	\$544.00	\$56.00		\$134.99	\$734.99	ONL	<b>BA-218-01</b> 353158 J. AMAN	\$544.00	\$56.00		\$134.99	\$734.99
<p>Meets: 6/22-8/13. Online textbook included in section fees.</p>							<p>Meets: 6/22-8/13. Online textbook included in section fees.</p>						
<b>BA-226Z</b>	<b>INTRODUCTION TO BUSINESS LAW, 4 CREDITS</b>												

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**Other Coding Translations:**  
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**VAR:** Variable credit class

**ESPAÑOL:** Enseñado en español  
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**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

Provides a comprehensive overview of U.S. business law, including the legal system, contracts, torts, intellectual property, agency, employment, and business organization forms. Emphasizes practical legal knowledge and explores how laws impact business operations, with a focus on risk management, contract disputes, business formation, and compliance with government regulation. Introduces legal challenges in business through real cases and legal terminology.

ONL NCT	<b>BA-226Z-01</b>	<b>348501</b>				
	M. MOISO		\$544.00	\$56.00	\$5.00	\$605.00
	Meets: 6/22-8/13.					

**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

REM	<b>BA-228-01</b>	<b>353118 M</b>			<b>4-5:50 PM</b>	
	L. LEWIS		\$544.00	\$56.00	\$118.67	\$718.67
	Meets: 6/22-8/13. 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	<b>BA-270-01</b>	<b>348502</b>				
	C. CHATTERTON		\$544.00	\$56.00	\$5.00	\$605.00
	Meets: 6/22-8/13.					

**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	<b>BA-280-01</b>	<b>348503</b>				
	B. FORNEY		\$816.00	\$84.00	\$45.00	\$945.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					
ONL	<b>BA-280-02</b>	<b>353058</b>				
	S. RAHN		\$816.00	\$84.00	\$45.00	\$945.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

**BA-285 HUMAN RELATIONS IN BUSINESS, 4 CREDITS**

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

ONL	<b>BA-285-01</b>	<b>348504</b>				
	M. MOISO		\$544.00	\$56.00	\$51.67	\$651.67
	Meets: 6/22-8/13. Online textbook included in section fees.					

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**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	<b>BT-120-01</b>	<b>348505</b>				
	S. SIMMONS		\$272.00	\$28.00	\$10.00	\$310.00
	Meets: 6/22-8/13.					
ONL	<b>BT-120-02</b>	<b>348506</b>				
	S. SIMMONS		\$272.00	\$28.00	\$10.00	\$310.00
	Meets: 6/22-8/13.					

**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	<b>BT-121-01</b>	<b>348507</b>				
	S. SIMMONS		\$136.00	\$14.00	\$10.00	\$160.00
	Meets: 6/22-8/13.					
ONL	<b>BT-121-02</b>	<b>348508</b>				
	S. SIMMONS		\$136.00	\$14.00	\$10.00	\$160.00
	Meets: 6/22-8/13.					

**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.

**Prerequisites:** BT-120

ONL LCT	<b>BT-122-01</b>	<b>348509</b>				
	S. SIMMONS		\$272.00	\$28.00	\$10.00	\$310.00
	Meets: 6/22-8/13.					
ONL	<b>BT-122-02</b>	<b>348510</b>				
	S. SIMMONS		\$272.00	\$28.00	\$10.00	\$310.00
	Meets: 6/22-8/13.					

**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	<b>BT-124-01</b>	<b>348511</b>				
	S. SIMMONS		\$408.00	\$42.00	\$10.00	\$460.00

**BT-125 BUSINESS EDITING II, 3 CREDITS**

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	Instructor	Tuition	Fee	Crs. Fee			Instructor	Instructor	Tuition	Fee	Crs. Fee				
<p>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.</p> <p><b>Prerequisites:</b> BT-124 with a C or better</p>							ONL	<b>CH-106-40</b> G. BURGESS	<b>348636</b>		\$680.00	\$70.00	\$0.00	\$750.00		
<p><b>CH-106L INTRODUCTORY CHEMISTRY LAB, 0 CREDIT</b> Lab course for CH-106 <b>Corequisites:</b> CH-106 and CH-106S</p>							oc	<b>CH-106L-40</b> G. BURGESS	<b>348637 TBA</b>		\$0.00	\$0.00	\$0.00	\$0.00		
<p>Open lab. Students must spend 3 hours per week in chem lab. Lab hours: Tuesdays 12-5pm.</p>							CH-106S	<b>INTRODUCTORY CHEMISTRY SEMINAR, 0 CREDIT</b> Seminar course for CH-106 <b>Corequisites:</b> CH-106 and CH-106L	oc	<b>CH-106S-40</b> G. BURGESS	<b>348639 TH</b>	<b>11-11:50 AM</b>	\$0.00	\$0.00	\$0.00	\$0.00
<p><b>CH-104SZ INTRODUCTION TO CHEMISTRY SEMINAR, 0 CREDIT</b> Seminar course for CH-104Z <b>Corequisites:</b> CH-104Z and CH-124Z</p>							oc	<b>CH-104SZ-40</b> G. BURGESS	<b>348627 TH</b>	<b>11-11:50 AM</b>	\$0.00	\$0.00	\$0.00	\$0.00		
<p><b>CH-104Z INTRODUCTION TO CHEMISTRY, 4 CREDITS</b> Introduces principles of general chemistry including atoms, chemical formulas and equations, bonding, stoichiometry, acid/base chemistry, solutions, and unit conversion calculations. Does not equal a general chemistry course sequence. CH-104Z is the lecture component; CH-124Z is the laboratory component. <b>Corequisites:</b> CH-124Z and CH-104SZ <b>Prerequisites:</b> MTH-065 or MTH-098 or placement in MTH-095; and WRD-090 or placement in WRD-098</p>							ONL	<b>CH-104Z-40</b> G. BURGESS	<b>353025</b>		\$544.00	\$56.00	\$0.00	\$600.00		
<p><b>CH-105 INTRODUCTORY CHEMISTRY, 5 CREDITS</b> A lab course discussing heat; molecular and ionic interactions in solids, liquids, gases, and solutions; chemical reactions including acid-base, electron transfer, and equilibrium. <b>Prerequisites:</b> CH-104Z and CH-124Z <b>Corequisites:</b> CH-105L and CH-105S</p>							ONL	<b>CH-105-40</b> G. BURGESS	<b>348630</b>		\$680.00	\$70.00	\$0.00	\$750.00		
<p><b>CH-105L INTRODUCTORY CHEMISTRY LAB, 0 CREDIT</b> Lab course for CH-105 <b>Corequisites:</b> CH-105 and CH-105S</p>							oc	<b>CH-105L-40</b> G. BURGESS	<b>348633 TBA</b>		\$0.00	\$0.00	\$0.00	\$0.00		
<p>Open lab. Students must spend 3 hours per week in chem lab. Lab hours: Tuesdays 12-5pm.</p>							CH-105S	<b>INTRODUCTORY CHEMISTRY SEMINAR, 0 CREDIT</b> Seminar course for CH-105 <b>Corequisites:</b> CH-105 and CH-105L	oc	<b>CH-105S-40</b> G. BURGESS	<b>348634 TH</b>	<b>11-11:50 AM</b>	\$0.00	\$0.00	\$0.00	\$0.00
<p><b>CH-106 INTRODUCTORY CHEMISTRY, 5 CREDITS</b> A lab course discussing organic and biochemistry. <b>Prerequisites:</b> CH-105 <b>Corequisites:</b> CH-106L and CH-106S</p>							ONL	<b>CH-106-40</b> G. BURGESS	<b>348636</b>		\$680.00	\$70.00	\$0.00	\$750.00		
<p><b>CH-106L INTRODUCTORY CHEMISTRY LAB, 0 CREDIT</b> Lab course for CH-106 <b>Corequisites:</b> CH-106 and CH-106S</p>							oc	<b>CH-106L-40</b> G. BURGESS	<b>348637 TBA</b>		\$0.00	\$0.00	\$0.00	\$0.00		
<p>Open lab. Students must spend 3 hours per week in chem lab. Lab hours: Tuesdays 12-5pm.</p>							CH-106S	<b>INTRODUCTORY CHEMISTRY SEMINAR, 0 CREDIT</b> Seminar course for CH-106 <b>Corequisites:</b> CH-106 and CH-106L	oc	<b>CH-106S-40</b> G. BURGESS	<b>348639 TH</b>	<b>11-11:50 AM</b>	\$0.00	\$0.00	\$0.00	\$0.00
<p><b>CH-112Z CHEMISTRY FOR HEALTH PROFESSIONS, 4 CREDITS</b> A one quarter introduction to general, organic and biological chemistry, focusing on topics related to the health sciences including atoms, bonding, biomolecules, solution chemistry, chemical reactions, and functional group properties of organic molecules. This course is intended for pre-nursing and allied health students. <b>Prerequisites:</b> MTH-065 or MTH-098 with a C or better or placement in MTH-095 <b>Prerequisites:</b> WRD-090 or placement in WRD-098 <b>Recommended Corequisite:</b> BI-112</p>							HAR HYB LCT	<b>CH-112Z-15</b> S. MCDONALD	<b>353027 T</b>	<b>10-11:50 AM</b>	\$544.00	\$56.00	\$15.00	\$615.00		
<p><b>CH-124Z INTRODUCTION TO CHEMISTRY LAB, 1 CREDIT</b> Experiments corresponding to the topics covered in CH-104Z. CH-124Z is the laboratory component; CH-104Z is the lecture course. <b>Corequisites:</b> CH-104Z and CH-104SZ</p>							oc	<b>CH-124Z-40</b> G. BURGESS	<b>353026 TBA</b>		\$136.00	\$14.00	\$50.00	\$200.00		
<p>Open lab. Students must spend 3 hours per week in chem lab. Lab hours: Tuesdays 12-5pm.</p>							CH-223SZ	<b>GENERAL CHEMISTRY III SEMINAR, 0 CREDIT</b> Seminar course for CH-223Z <b>Corequisites:</b> CH-223Z and CH-229Z	oc	<b>CH-223SZ-01</b> J. DU BOULAY	<b>348646 TH</b>	<b>1-1:50 PM</b>	\$0.00	\$0.00	\$0.00	\$0.00
<p><b>CH-223Z GENERAL CHEMISTRY III, 4 CREDITS</b> Builds upon the principles presented in CH-222Z, explores thermodynamics and chemical equilibrium, and applies them to the study of aqueous acid-base reactions, solubility, and electrochemistry. CH-223Z is a lecture course; CH-229Z is the laboratory component. <b>Prerequisites:</b> CH-222Z with a C or better <b>Corequisites:</b> CH-229Z and CH-223SZ</p>							ONL	<b>CH-223Z-01</b> J. DU BOULAY	<b>353005</b>		\$544.00	\$56.00	\$0.00	\$600.00		
<p><b>CH-229Z GENERAL CHEMISTRY III LABORATORY, 1 CREDIT</b></p>																

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	Instructor			Tuition	Fee	Cr. Fee
oc	<b>CH-229Z-01</b> 353006 TH				2-4:50 PM	
	J. DU BOULAY	\$136.00	\$14.00	\$50.00	\$200.00	

**Communication Studies**

**COMM-100Z INTRODUCTION TO COMMUNICATION, 4 CREDITS**

COMM-100Z is a survey course offering an overview of the communication discipline that emphasizes the development of best communication practices in different contexts.

OC NCT	<b>COMM-100Z-01</b> 348650 TTH				1-3:45 PM	
	J. HULT	\$544.00	\$56.00	\$0.00	\$600.00	
	Meets: 6/22-8/13.					

**COMM-111ESZ HABLANDO EN PUBLICO, 4 CREDITS**

COMM-111ESZ enfatiza el desarrollo de habilidades de comunicación al examinar y demostrar cómo la autoconciencia, la audiencia, el contenido y la ocasión influyen en la creación y entrega de discursos y presentaciones.

**Prerequisites:** WR-124ES

REM ESPAÑOL	<b>COMM-111ESZ-01</b> 353041 TTH				5-7:45 PM	
	A. MOSEY	\$544.00	\$56.00	\$20.00	\$620.00	

**COMM-111Z PUBLIC SPEAKING, 4 CREDITS**

COMM-111Z emphasizes developing communication skills by examining and demonstrating how self-awareness, audience, content, and occasion influence the creation and delivery of speeches and presentations.

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

**Recommended Prerequisite or Corequisite:** FYE-101

REM NCT	<b>COMM-111Z-01</b> 348653 MW				9-11:45 AM	
	K. HUGHES	\$544.00	\$56.00	\$20.00	\$620.00	
	Meets: 7/6-8/29.					

REM NCT	<b>COMM-111Z-02</b> 348656 MW				6-8:45 PM	
	J. SMITH	\$544.00	\$56.00	\$20.00	\$620.00	
	Meets: 6/22-8/13.					

HAR NCT	<b>COMM-111Z-15</b> 348660 TTH				9-11:45 AM	
	K. MCCONNELL	\$544.00	\$56.00	\$20.00	\$620.00	
	Meets: 6/22-8/13.					

**COMM-218Z INTERPERSONAL COMMUNICATION, 4 CREDITS**

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

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

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	Instructor			Tuition	Fee	Cr. Fee
HAR NCT	<b>COMM-218Z-15</b> 348661 TTH				9-11:45 AM	
	M. WILLIAMS	\$544.00	\$56.00	\$0.00	\$600.00	
	Meets: 6/22-8/13.					
COMM-280	<b>SPEECH/CWE, 2-6 CREDITS</b>					
	Cooperative work experience. Provides students with on-the-job experience in the field of communications. Required: Student Petition.					
	<b>Corequisites:</b> CWE-281					

ONL NCT	<b>COMM-280-01</b> 348663					
	K. HUGHES	\$816.00	\$84.00	\$45.00	\$945.00V	
	Meets: 6/22-8/13. Required: Student Petition.					

**Computer Science**

**CS-120 SURVEY OF COMPUTING, 4 CREDITS**

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

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

ONL	<b>CS-120-30</b> 348666					
	M. SORRENTINO	\$544.00	\$56.00	\$179.99	\$779.99	
	Meets: 6/22-8/13. Online textbook included in section fees.					

**CS-122 PERSONAL CYBERSECURITY FUNDAMENTALS, 2 CREDITS**

In this course students explore how cybersecurity affects their digital activities every day, including school, gaming, social media, banking, shopping, and AI tools. Students examine common online threats and apply practical protections to secure their personal accounts and devices. Through demonstrations, activities, and hands-on practice, students develop skills and a mindset in threat recognition, privacy management, and digital security while exploring diverse cybersecurity career pathways in technology, policy, and business.

**Required:** Basic computer familiarity

OC NCT	<b>CS-122-01</b> 353124 MTWTH				9-3:00 PM	
	L. RENDON	\$0.00	\$0.00	\$0.00	\$0.00	
	Meets: 8/10-8/13. Restricted to CTE Summer Camp Students.					

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

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

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

ONL	<b>CS-125H-30</b> 348668					
	M. SORRENTINO	\$544.00	\$56.00	\$20.00	\$620.00	
	Meets: 6/22-8/13.					

**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.

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
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**Recommended Prerequisites:** MTH-060 or placement in MTH-065

ONL NCT	<b>CS-160-30</b> 348670		R. ALBERS			\$544.00	\$56.00	\$20.00		\$620.00
	Meets: 6/22-8/13.									

**CS-280 COMPUTER SCIENCE/CWE, 1-6 CREDITS**

Cooperative work experience. This course provides supervised work experience to supplement the academic classroom environment. Work examples include user support, work with computer applications or programming languages, installation or management PC computer systems, and developing websites. May be repeated for up to 9 credits. Required: Student Petition.

**Corequisites:** CWE-281

ONL NCT	<b>CS-280-01</b> 348672		J. MILLER			\$816.00	\$84.00	\$45.00		\$945.00V
	Required: Student Petition. Restricted to Computer Science students. Corequisite: Take the following CWE-281-05.									

**Cooperative Work Experience**

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

**CWE-281 COOPERATIVE WORK EXPERIENCE SEMINAR, 0 CREDIT**

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

**Corequisites:** Program specific CWE course

oc	<b>CWE-281-01</b> 348398		D. GLASCOCK			\$0.00	\$0.00	\$0.00		\$0.00
	Required: Student Petition.									
ONL LCT	<b>CWE-281-03</b> 348399		M. LAFORCE			\$0.00	\$0.00	\$0.00		\$0.00
	Restricted to Water & Environmental Technology students only.									
ONL LCT	<b>CWE-281-04</b> 348400		M. LAFORCE			\$0.00	\$0.00	\$0.00		\$0.00
	Restricted to Water & Environmental Technology students only.									
ONL LCT	<b>CWE-281-05</b> 348401		J. MILLER			\$0.00	\$0.00	\$0.00		\$0.00
	Required: Student Petition. Restricted to Computer Science students only.									
ONL LCT	<b>CWE-281-06</b> 348402		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 [tim.musgrave@clackamas.edu](mailto:tim.musgrave@clackamas.edu) or 503-594-6224.

**Campus Locations:**  
**HAR:** Harmony Community Campus  
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**Other Coding Translations:**  
**TBA:** To be arranged: contact department first class  
**VAR:** Variable credit class

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

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
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**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	<b>CJA-101-01</b> 348513		T. MUSGRAVE			\$544.00	\$56.00	\$0.00		\$600.00
	Meets: 6/22-8/13.									

**CJA-201 JUVENILE DELINQUENCY, 4 CREDITS**

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

ONL	<b>CJA-201-01</b> 353065		G. RONNING			\$544.00	\$56.00	\$0.00		\$600.00
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**CJA-215 SEXUAL ABUSE AND HUMAN TRAFFICKING, 3 CREDITS**

This course will explore various aspects of sexual abuse cases and human trafficking in the state of Oregon and the U.S., including discussion of societal and historical perspectives, responses to victim trauma, sexual offenders and law enforcement response to these crimes.

HAR	<b>CJA-215-01</b> 353066	M	S. HEALY			\$408.00	\$42.00	\$0.00		\$450.00
										6-8:50 PM

**Digital Media Communications**

**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	<b>DMC-280-01</b> 348674		T. WASSON			\$816.00	\$84.00	\$45.00		\$945.00V
	Meets: 6/22-8/13. Required: Student Petition.									

**Economics**

**EC-201Z PRINCIPLES OF MICROECONOMICS, 4 CREDITS**

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

**Prerequisites:** MTH-020 or placement in MTH-098

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

ONL NCT	<b>EC-201Z-01</b> 348515		D. LOUGEE			\$544.00	\$56.00	\$0.00		\$600.00
	Meets: 6/22-8/13.									

**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

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time	Total
	Instructor		Tuition	Fee	Crs. Fee	
ONL NCT	<b>EC-202Z-01 348516</b> M. PARTAPURWALA Meets: 6/22-8/13.		\$544.00	\$56.00	\$0.00	\$600.00

Education

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

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

ONL	<b>ECE-121-01 348517</b> S. MYERS Meets: 6/22-7/24. This is an accelerated, five-week section.		\$544.00	\$56.00	\$0.00	\$600.00
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**ECE-154 LANGUAGE & LITERACY DEVELOPMENT IN YOUNG CHILDREN, 4 CREDITS**

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

ONL	<b>ECE-154-01 348519</b> B. KING Meets: 6/22-7/24. This is an accelerated five-week section.		\$544.00	\$56.00	\$0.00	\$600.00
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**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 ESPAÑOL	<b>ECE-221ES-01 348522 T</b> D. TORRADO La clase se reúne seis Martes por Zoom (6/30, 7/14, 7/28, 8/11, 8/25, 9/1) de 6:00PM a 7:50PM.		\$544.00	\$56.00	\$0.00	\$600.00
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**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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	Instructor		Tuition	Fee	Crs. Fee	
REM ESPAÑOL	<b>ECE-240ES-01 348523 W</b> D. TORRADO La clase se reúne seis Miércoles por Zoom (7/1, 7/15, 7/29, 8/12, 8/26, 9/2) de 6:00PM a 7:50 PM.		\$544.00	\$56.00	\$0.00	\$600.00

**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 ESPAÑOL	<b>ECE-246ES-01 348524 S</b> B. MARRON La clase se reúne cinco Sabados por Zoom (6/27, 7/11, 7/25, 8/8, 8/22, 9/5) de 9:00 AM a 10:50 AM.		\$544.00	\$56.00	\$0.00	\$600.00
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**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

ONL	<b>ECE-280-01 348529</b> D. GLASCOCK Required: Student Petition. Meets: 6/22-8/13. Corequisite: Take the following CWE-281-01.		\$408.00	\$42.00	\$45.00	\$495.00
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**ECE-291ES PRACTICUM II, 4 CREDITS**

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

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

REM ESPAÑOL	<b>ECE-291ES-01 348530 S</b> D. TORRADO Requerido: petición del estudiante. La clase se reúne cinco sábados por Zoom (6/27, 7/11, 7/25, 8/8, 8/22) de 9:00AM a 11:50AM.		\$544.00	\$56.00	\$0.00	\$600.00
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**ED-229 LEARNING & DEVELOPMENT, 3 CREDITS**

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

ONL	<b>ED-229-01 353063</b> T. GOWDY Meets: 6/22-8/13.		\$408.00	\$42.00	\$0.00	\$450.00
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**ED-258 CULTURALLY RESPONSIVE EDUCATION, 3 CREDITS**

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

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		Instructor		Tuition	Fee	Crs. Fee

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	<b>ED-258-01</b>	<b>353064</b>				
	T. GOWDY		\$408.00	\$42.00	\$0.00	\$450.00
	Meets: 6/22-8/13.					

**ED-269 OVERVIEW OF SPECIAL EDUCATION, 3 CREDITS**

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

ONL	<b>ED-269-01</b>	<b>348533</b>				
	T. GOWDY		\$408.00	\$42.00	\$67.98	\$517.98
	Meets: 6/22-8/13. Online textbook included in section fees.					

**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.*

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

Cooperative work experience. Practical experience in the high-tech industry. Coordination of instruction and evaluation of student job performance will be provided by college faculty in conjunction with the student's employer/supervisor. Required: Student Petition.

**Corequisites:** CWE-281

ONL NCT	<b>SM-280-01</b>	<b>348757</b>				
	C. CONNORS		\$816.00	\$84.00	\$255.00	\$1,155.00
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

**Emergency Management Professional**

**EMP-204 FOUNDATIONS OF EMERGENCY PLANNING, 4 CREDITS**

In order for a community to be truly prepared to respond to any type of natural and/or man-made disaster, it must develop effective emergency planning. This course will provide an introduction to the multiple aspects of disaster planning. It explores the patterns of human disaster behavior, social psychology and communication as well as the basics of generic planning actions, planning concepts, implementation, and action.

ONL	<b>EMP-204-01</b>	<b>353048</b>				
	M. STRAUCH		\$544.00	\$56.00	\$0.00	\$600.00

**EMP-222 TERRORISM AWARENESS AND RESPONSE, 2 CREDITS**

Provides current and relevant information about terrorism, terrorist behavior, homeland security policies and dilemmas and how to deal effectively with threats and the consequences of attacks. Students will gain insight into the key players involved in emergency management, local and state issues and interacting and working with the Federal Emergency Management Agency (FEMA) and other federal agencies. Course components include identifying terrorism, causes of terrorism, preventing terrorist attacks, responding to terrorism attacks and avoiding communication and leadership collapse.

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		Instructor		Tuition	Fee	Crs. Fee

ONL	<b>EMP-222-01</b>	<b>353049</b>				
	D. FERGUSON		\$272.00	\$28.00	\$0.00	\$300.00
	Meets: 6/22-8/13.					

**EMP-226 BUSINESS CONTINUITY FUNDAMENTALS, 4 CREDITS**

This course provides a foundation for business continuity management and continuity of operations planning (COOP). Topics include business continuity initiation, risk evaluation and control, business impact analysis, developing business continuity strategies and plans, developing training and exercise programs, coordinating with external agencies, and exposure to current case studies.

ONL	<b>EMP-226-01</b>	<b>353050</b>				
	J. MERTEN		\$544.00	\$56.00	\$0.00	\$600.00

**EMP-270 EMP CAPSTONE, 3 CREDITS**

This course gives students the opportunity to showcase the skills they have learned during previous terms. Students develop a project management plan and work through the analysis necessary to present their findings in an oral and written presentation. Additionally, scenario-based assignments will reinforce the project-based analysis process. Throughout the course, portfolio building strategies are explored with an emphasis on developing a professional portfolio demonstrating their work as preparation for entering the EMP profession. May be repeated for up to 6 credits.

**Prerequisites:** COMM-218Z, EMP-170, EMP-206, EMP-214, EMP-216, EMP-224, and WR-227Z

ONL	<b>EMP-270-01</b>	<b>353051</b>				
	J. MERTEN		\$408.00	\$42.00	\$0.00	\$450.00

**Emergency Medical Technology**

**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 NCT	<b>EMT-105-01</b>	<b>348404</b>				
	T. SAWZAK		\$408.00	\$42.00	\$0.00	\$450.00

**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.

HAR LCT	<b>ESOL-012-06</b>	<b>348462</b>	<b>TTH</b>		<b>6-8:50 PM</b>	
	T. NIKOLOPOULOS		\$0.00	\$0.00	\$60.00	\$60.00
	Meets: 6/22-8/13. Required: Student Petition.					

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Instructor	Tuition	Fee	Cr. Fee			
HAR LCT	<b>ESOL-012-07 348463 TTH</b>				<b>6-8:50 PM</b>	
K. HOLLOWAY	\$0.00	\$0.00	\$60.00	\$60.00		
Meets: 6/22-8/13. Required: Student Petition.						

**ESOL-013 BEGINNING ESOL, 0 CREDIT**

English language learners speak and listen to simple words, phrases, questions, statements and commands using common English vocabulary in simple, highly-structured tasks. Aligns with the Oregon Adult English Language Proficiency Standards, Level 1 and the Oregon Adult College and Career Readiness Standards Reading Foundational Skills. This course introduces the same skills as ESOL-012, but provides fewer hours toward developing mastery. Required: Student Petition.

OC LCT	<b>ESOL-013-01 348465 MW</b>				<b>9-10:50 AM</b>	
J. RUEDA	\$0.00	\$0.00	\$35.00	\$35.00		
Required: Student Petition. Meets: 6/22-8/13.						

REM LCT	<b>ESOL-013-06 353121 TTH</b>				<b>7-8:50 PM</b>	
J. STENSETH	\$0.00	\$0.00	\$35.00	\$35.00		
Meets: 6/22-8/13. Required: Student Petition.						

**ESOL-014 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. This course introduces the same skills as ESOL-015, but provides fewer hours toward developing mastery. Required: Student Petition.

OC NCT	<b>ESOL-014-01 348466 MW</b>				<b>11:30 -1:20 PM</b>	
J. RUEDA	\$0.00	\$0.00	\$35.00	\$35.00		
Meets: 6/22-8/13. 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.

HAR NCT	<b>ESOL-015-06 348467 MW</b>				<b>6-8:50 PM</b>	
K. HOLLOWAY	\$0.00	\$0.00	\$65.00	\$65.00		
Required: Student Petition. Meets: 6/22-8/13.						

**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	<b>ESOL-020-01 348469 MW</b>				<b>11:30 -1:20 PM</b>	
T. NIKOLOPOULOS	\$0.00	\$0.00	\$35.00	\$35.00		
Meets: 6/22-8/13. Required: Student Petition.						

HAR NCT	<b>ESOL-020-06 348470 MW</b>				<b>7-8:50 PM</b>	
T. NIKOLOPOULOS	\$0.00	\$0.00	\$35.00	\$35.00		
Meets: 6/22-8/13. 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.

Course No	Course Title, Credits	Section No	Cr. Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
Instructor	Tuition	Fee	Cr. Fee			
HAR LCT	<b>ESOL-022-06 348471 TTH</b>				<b>7-8:50 PM</b>	
K. EMENS-HESLINK	\$0.00	\$0.00	\$30.00	\$30.00		
Meets: 6/22-8/13. 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.

REM LCT	<b>ESOL-030-07 353122 MW</b>				<b>7-8:50 PM</b>	
A. FRANZONI	\$0.00	\$0.00	\$30.00	\$30.00		
Meets: 6/22-8/13. 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.

OC LCT	<b>ESOL-031-01 348473 MW</b>				<b>11:30 -1:20 PM</b>	
D. VERMILLION	\$0.00	\$0.00	\$30.00	\$30.00		
Meets: 6/22-8/13. Required: Student Petition.						

HAR LCT	<b>ESOL-031-06 348474 MW</b>				<b>7-8:50 PM</b>	
D. VERMILLION	\$0.00	\$0.00	\$30.00	\$30.00		
Meets: 6/22-8/13. Required: Student Petition.						

**ESOL-033 INTERMEDIATE CONVERSATION 2, 0 CREDIT**

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

OC LCT	<b>ESOL-033-01 348475 MW</b>				<b>9-10:50 AM</b>	
S. CAISSE	\$0.00	\$0.00	\$30.00	\$30.00		
Meets: 6/22-8/13. Required: Student Petition.						

HAR LCT	<b>ESOL-033-06 348476 TTH</b>				<b>7-8:50 PM</b>	
S. CAISSE	\$0.00	\$0.00	\$30.00	\$30.00		
Meets: 6/22-8/13. Required: Student Petition.						

REM LCT	<b>ESOL-033-07 348477 TTH</b>				<b>7-8:50 PM</b>	
A. FRANZONI	\$0.00	\$0.00	\$30.00	\$30.00		
Meets: 6/22-8/13. Required: Student Petition.						

**ESOL-043 UPPER INTERMEDIATE CONVERSATION 2, 0 CREDIT**

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

OC LCT	<b>ESOL-043-01 348478 MW</b>				<b>9-10:50 AM</b>	
D. VERMILLION	\$0.00	\$0.00	\$30.00	\$30.00		
Meets: 6/22-8/13. Required: Student Petition.						

HAR LCT	<b>ESOL-043-06 348479 TTH</b>				<b>7-8:50 PM</b>	
P. MROZEK	\$0.00	\$0.00	\$30.00	\$30.00		
Meets: 6/22-8/13. Required: Student Petition.						

**ESOL-050 ADVANCED GRAMMAR A, 0 CREDIT**

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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
	Instructor		Tuition	Fee	Crs. Fee	

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	<b>ESOL-050-01</b>	<b>353057 MW</b>			<b>11:30 -1:20 PM</b>	
	K. LONG		\$0.00	\$0.00	\$30.00	\$30.00
	Meets: 6/22-8/13. Required: Student Petition.					
HAR LCT	<b>ESOL-050-06</b>	<b>353056 MW</b>			<b>7-8:50 PM</b>	
	S. CAISSE		\$0.00	\$0.00	\$30.00	\$30.00
	Meets: 6/22-8/13. Required: Student Petition.					

**ESOL-053 ADVANCED COMMUNICATION SKILLS 2, 0 CREDIT**

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

OC LCT	<b>ESOL-053-01</b>	<b>353123 MW</b>			<b>9-10:50 AM</b>	
	L. ROWE		\$0.00	\$0.00	\$30.00	\$30.00
	Meets: 6/22-8/13. Required: Student Petition.					
HAR LCT	<b>ESOL-053-06</b>	<b>348481 TTH</b>			<b>7-8:50 PM</b>	
	I. FERGUSON		\$0.00	\$0.00	\$30.00	\$30.00
	Meets: 6/22-8/13. 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	<b>ESOL-082-01</b>	<b>348484</b>				\$0.00
	L. JOYCE		\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 6/22-8/13. Required: Student Petition.					
ONL NCT	<b>ESOL-082-06</b>	<b>348485</b>				\$0.00
	L. JOYCE		\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 6/22-8/13. 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	<b>ESOL-083-01</b>	<b>348486</b>				\$0.00
	L. JOYCE		\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 6/22-8/13. Required: Student Petition.					
ONL NCT	<b>ESOL-083-06</b>	<b>348487</b>				\$0.00
	L. JOYCE		\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 6/22-8/13. Required: Student Petition.					

**English Literature**

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

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

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

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

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

**ENG-104Z INTRODUCTION TO FICTION, 4 CREDITS**

The study of fiction invites us to enter imaginative narratives and confront the challenges of being human. ENG-104Z provides opportunities for the appreciation of fiction, including deeper awareness of craft and insight into how reading fiction can lead to self-enrichment. Students read a variety of types of fiction, from diverse perspectives and eras, and develop their skills in discussion, literary analysis, and critical thinking.

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

ONL	<b>ENG-104Z-01</b>	<b>348534</b>				
	S. WARREN		\$544.00	\$56.00	\$0.00	\$600.00
	Meets: 6/22-8/13.					

**ENG-106Z INTRODUCTION TO POETRY, 4 CREDITS**

The study of poetry invites us to delve into the biggest questions about life and culture alongside the seemingly smallest issues of words and sounds. ENG-106Z provides opportunities for the appreciation of poetry, including deeper awareness of craft and insight into how reading poetry can lead to self-enrichment. Students read a variety of types of poetry and poetic forms, from diverse perspectives and eras, and develop their skills in discussion, literary analysis, and critical thinking.

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

ONL	<b>ENG-106Z-01</b>	<b>348535</b>				
	M. SCHUMACHER		\$544.00	\$56.00	\$0.00	\$600.00
	Meets: 6/22-8/13.					

**ENG-222 CHILDREN'S AND YOUNG ADULT LITERATURE, 4 CREDITS**

Surveys the development of the genres of children's and young adult literature, including fairy tales, picture books, classic children's novels, and contemporary young adult novels, studying how these texts reflect their culture's understanding of young readers' psychology, taste, and learning needs over time.

**Recommended Prerequisites:** Placement in WRD-098 or above

ONL	<b>ENG-222-01</b>	<b>353116</b>				
	C. ZIMMERLY-BECK		\$544.00	\$56.00	\$0.00	\$600.00
	Meets: 6/22-8/13.					

**Ethnic Studies**

**ES-101 INTRODUCTION TO ETHNIC STUDIES, 4 CREDITS**

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

**Recommended Prerequisite or Corequisite:** FYE-101

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

ONL NCT	<b>ES-101-01</b>	<b>348537</b>				
	R. MOFFETT		\$544.00	\$56.00	\$0.00	\$600.00
	Meets: 6/22-8/13.					

**Family Studies**

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

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 ESPAÑOL	<b>HDF-225ES-01 348551 TH</b>				<b>6-7:50 PM</b>	
	L. JAMES	\$544.00	\$56.00	\$0.00		\$600.00
	La clase se reúne seis Jueves por Zoom (6/25, 7/9, 7/23, 8/6, 8/20, 9/3) de 6:00 PM a 7:50 PM.					

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

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

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

REM ESPAÑOL	<b>HDF-247ES-01CMY</b>	<b>348552 W</b>			<b>6-7:50 PM</b>	
	L. JAMES	\$544.00	\$56.00	\$0.00		\$600.00
	La clase se reúne seis Miércoles por Zoom (6/24, 7/8, 7/22, 8/5, 8/19, 9/2) de 6:00PM a 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	<b>HDF-260-01 348553</b>					
	C. BAKER	\$408.00	\$42.00	\$0.00		\$450.00
	Meets: 6/22-8/13.					

**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	<b>FN-110-01 348406</b>					
	T. SCOLLARD	\$408.00	\$42.00	\$92.16		\$542.16
	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.

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Instructor	Tuition	Fee	Crs. Fee			

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

ONL	<b>FN-225-01 348407</b>					
	T. SCOLLARD	\$544.00	\$56.00	\$130.00		\$730.00
	Online textbook included in section fees.					
ONL	<b>FN-225-02 348408</b>					
	J. PAVLINAC	\$544.00	\$56.00	\$130.00		\$730.00
	Online textbook included in section fees.					

**General Development Education (GED)**

*GED Classes offered Days and Evenings*

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

**GED-011 GED IN ESPAÑOL, 0 CREDIT**

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

REM LCT ESPAÑOL	<b>GED-011-01 348538 MW</b>				<b>5:30 -7:50 PM</b>	
	A. ARISTIZABAL	\$0.00	\$0.00	\$50.00		\$50.00
	Requerido: petición del estudiante. Meets: 6/22-8/13.					
HAR HYB LCT ESPAÑOL	<b>GED-011-02 348539 TTH</b>				<b>6-8:50 PM</b>	
	A. ARISTIZABAL	\$0.00	\$0.00	\$50.00		\$50.00
	Requerido: petición del estudiante. Meets: 6/22-8/13.					
REM ESPAÑOL	<b>GED-011-03 348540 MW</b>				<b>5:30 -7:50 PM</b>	
	M. ROSAS DELGADO	\$0.00	\$0.00	\$50.00		\$50.00
	Meets: 6/22-8/13.					

**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	<b>GED-015-17 348542 MW</b>				<b>5:30 -7:50 PM</b>	
	J. NIELSON	\$0.00	\$0.00	\$50.00		\$50.00
	A. WICKERT	Meets: 6/22-8/13. Required: Student Petition.				
ONL LCT	<b>GED-015-68 348543</b>					
	S. HATSWELL	\$0.00	\$0.00	\$60.00		\$60.00
	Meets: 6/22-8/13. Required: Student Petition.					
ONL LCT	<b>GED-015-69 348544</b>					
	A. SMITH	\$0.00	\$0.00	\$60.00		\$60.00
	Required: Student Petition. Meets: 6/22-8/13.					
OC LCT	<b>GED-015-80 348545 MTWTH</b>				<b>10-11:50 AM</b>	
	D. GREEN	\$0.00	\$0.00	\$60.00		\$60.00
	Meets: 6/22-8/13. Required: Student Petition.					

**Geographic Information Systems**

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**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	

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-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 NCT	<b>GIS-201-01</b>	<b>348547</b>				
	A. ARMEN		\$544.00	\$56.00	\$40.00	\$640.00
	L. COX					
	Meets: 6/22-8/13.					
ONL NCT	<b>GIS-201-02</b>	<b>353052</b>				
	A. ARMEN		\$544.00	\$56.00	\$40.00	\$640.00
	L. COX					
	Meets: 6/22-8/13.					

**Geography**

**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	<b>GEO-110-01</b>	<b>348546</b>				
	C. FELDMAN		\$544.00	\$56.00	\$0.00	\$600.00
	Meets: 6/22-8/13.					

**Geology**

**G-145 GEOLOGY OF THE PACIFIC NORTHWEST, 4 CREDITS**

An introductory lab course that explores the geology and historic development of Northwest with an emphasis on Oregon geology. Each of Oregon's geologic regions is examined by using basic geologic principles, rock types, hazards and the Northwest's tectonic history.

**Corequisites:** G-145L

oc	<b>G-145-01</b>	<b>348676 S</b>				
		<b>M</b>			<b>1-3:50 PM</b>	
	R. COLLINS		\$544.00	\$56.00	\$60.00	\$660.00
	Meets: 6/22-8/13. Required field trip on Saturday, 6/27.					
	Contact instructor for full field trip details.					

**G-145L GEOLOGY OF THE PACIFIC NW LAB, 0 CREDIT**

Lab course for G-145

**Corequisites:** G-145

oc	<b>G-145L-01</b>	<b>348678 W</b>				
		<b>S</b>			<b>2-4:50 PM</b>	
	R. COLLINS		\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 6/22-8/13. Required field trip on Saturday, 7/11.					
	Contact instructor for full field trip details.					

**G-148 VOLCANOES & EARTHQUAKES, 4 CREDITS**

**Campus Locations:**

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**HYB:** In-person plus online work

**Other Coding Translations:**

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

**ESPAÑOL:** Enseñado en español

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

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

A lab course that examines the geological processes that create volcanoes and earthquakes and the hazards associated with them. Examines basic geologic features, monitoring techniques, hazards, prediction methods, and future events, using historic episodes of volcanic eruptions and earthquakes.

**Corequisites:** G-148L

**Required:** Two Saturday field trips

oc	<b>G-148-01</b>	<b>353092 TTH</b>				
		<b>S</b>			<b>9-11:50 AM</b>	
	A. KOTASH		\$544.00	\$56.00	\$60.00	\$660.00
	Meets: 6/22-7/18. Required field trip on Saturday, 6/27.					

**G-148L VOLCANOES & EARTHQUAKES LAB, 0 CREDIT**

Lab course for G-148

**Corequisites:** G-148

oc HYB	<b>G-148L-01</b>	<b>353093 W</b>				
		<b>S</b>			<b>9-10:50 AM</b>	
	A. KOTASH		\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 6/22-7/18. Required field trip on Saturday, 7/11.					

**Gerontology**

**GRN-184 AGING & THE INDIVIDUAL, 3 CREDITS**

This course explores the impact of aging on the individual as well as family members, caregivers, and professionals. Topics include: dementia, cognitive issues, stress, coping, life transitions, and intelligence. Course will also discuss the concept of successful aging from cross-cultural perspectives.

ONL	<b>GRN-184-01</b>	<b>348549</b>				
	TBA		\$408.00	\$42.00	\$0.00	\$450.00
	Meets: 6/22-8/13.					

**Health**

**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	<b>HE-204-01</b>	<b>348682</b>				
	K. STEEN		\$408.00	\$42.00	\$0.00	\$450.00
	Meets: 6/22-8/13.					

**HE-250 PERSONAL HEALTH, 3 CREDITS**

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

ONL	<b>HE-250-01</b>	<b>348685</b>				
	K. STEEN		\$408.00	\$42.00	\$0.00	\$450.00
	Meets: 6/22-8/13.					

ONL	<b>HE-250-02</b>	<b>348687</b>				
	J. RHODEN		\$408.00	\$42.00	\$0.00	\$450.00
	Meets: 6/22-8/13.					

**HE-252 FIRST AID/CPR/AED, 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

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

ONL LCT	<b>HE-252-01</b>	<b>348688</b>				
	K. ARIZO		\$408.00	\$42.00	\$35.00	\$485.00
	Meets: 6/22-8/13.					

## Health Professions

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

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

**Recommended:** Computer access with internet capabilities

**Recommended Prerequisites:** WRD-098

HAR HYB	<b>HP-100-01</b>	<b>353159 TH</b>			<b>8-5:00 PM</b>	
	S. COOPER		\$136.00	\$14.00	\$15.00	\$165.00

Additional costs associated with this course include: \$23 Bloodborne Pathogens Certificate, \$37 CPR Card, \$18.50 First Aid Certificate for a total of \$78.50 additional cost. The section will meet on 8/6/26 on the Harmony Campus. More information will be given in the first couple weeks of class.

HAR HYB	<b>HP-100-02</b>	<b>348409 TH</b>				
	T. SAWZAK		\$136.00	\$14.00	\$15.00	\$165.00

Additional costs associated with this course include: \$23 Bloodborne Pathogens Certificate, \$37 CPR Card, \$18.50 First Aid Certificate for a total of \$78.50 additional cost. The section will meet for four hours on 8/20/2026 or 8/25/2026 on the Harmony Campus. More information will be given in the first couple weeks of class.

### HP-110 MEDICAL TERMINOLOGY, 4 CREDITS

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

ONL	<b>HP-110-01</b>	<b>348410</b>				
	S. DAVENPORT		\$544.00	\$56.00	\$156.75	\$756.75
	Online textbook included in section fees.					

ONL	<b>HP-110-02</b>	<b>348412</b>				
	W. HARTJE		\$544.00	\$56.00	\$156.75	\$756.75
	Online textbook included in section fees.					

## History

### HST-102 HISTORY OF WESTERN CIVILIZATION, 4 CREDITS

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

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

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**REM:** Remote (w/ scheduled meetings)  
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		Instructor		Tuition	Fee	Crs. Fee

ONL NCT	<b>HST-102-01</b>	<b>348563</b>				
	P. MCFARLAND		\$544.00	\$56.00	\$0.00	\$600.00
	Meets: 6/22-8/13.					

## Horticulture/Arboriculture/Landscape/Organic Farming

For more information call 503-594-3292 or email [horticulture@clackamas.edu](mailto:horticulture@clackamas.edu)

### HOR-146 FRUIT & BERRY GROWING, 3 CREDITS

Regionally appropriate fruit and berry production practices that are suitable for urban areas and small farms. Class will utilize the Home Orchard Education Center demonstration arboretum located on campus.

OC LCT	<b>HOR-146-01</b>	<b>348690 TH</b>			<b>8-12:20 PM</b>	
	T. LORDY		\$408.00	\$42.00	\$50.00	\$500.00
	Meets: 6/22-9/5.					

### HOR-211 NATIVE PLANT IDENTIFICATION, 1 CREDIT

Students will learn to identify 50 native plants within the cultural and ecological context of the Pacific Northwest bioregion.

OC LCT	<b>HOR-211-01</b>	<b>348692 T</b>			<b>9-10:50 AM</b>	
	M. MELCO		\$136.00	\$14.00	\$40.00	\$190.00
	Meets: 6/30-7/28.					

### 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	<b>HOR-280-01</b>	<b>348696</b>				
	G. LOEFFLER		\$408.00	\$42.00	\$45.00	\$495.00
	Meets: 6/22-8/27. Required: Student Petition. Corequisite: Take the following CWE-281-06.					

### HOR-281 HORTICULTURE/CWE, 6 CREDITS

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

**Corequisites:** CWE-281

OC NCT	<b>HOR-281-01</b>	<b>348704</b>				
	G. LOEFFLER		\$816.00	\$84.00	\$45.00	\$945.00
	Meets: 6/22-8/27. Required: Student Petition. Corequisite: Take the following CWE-281-06.					

### HOR-282 HORTICULTURE/CWE, 3 CREDITS

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

**Corequisites:** CWE-281

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

OC NCT	<b>HOR-282-01</b>	<b>348709</b>				
	G. LOEFFLER		\$408.00	\$42.00	\$45.00	\$495.00
	Meets: 6/22-8/27. Required: Student Petition. Corequisite: Take the following CWE-281-06.					

### HOR-284 ORGANIC FARMING PRACTICUM/SUMMER, 3 CREDITS

#### Other Coding Translations:

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

#### ESPAÑOL: Enseñado en español

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

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

Experiential learning of organic farming techniques, while working on the Student Farm. Students learn ecological and sustainable practices, principles, and management strategies. This course includes the seasonal activities of a working, small scale Organic Farm: seed sowing, planting, cultivation, irrigation, harvest, packing, selling at farmers market and to restaurants. An important aspect of this course is participating in the on-campus, weekly farmers market. All tasks are hands-on and guided by the instructor. This format has been selected to create a hands-on experience for each student in seasonal crop production and marketing.

**Prerequisites:** HOR-141 or Student Petition

OC NCT	<b>HOR-284-01</b>	<b>348716</b>	<b>W</b>		<b>12-3:00 PM</b>	
			<b>MW</b>		<b>7:30 -11:30 AM</b>	
	D. ROSTAD	\$408.00	\$42.00	\$50.00	\$500.00	

Meets: 6/22-8/26.

**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	<b>HOR-285-01</b>	<b>348720</b>				
	D. ROSTAD	\$408.00	\$42.00	\$45.00	\$495.00	

Meets: 6/22-8/27. Required: Student Petition. Corequisite: Take the following CWE-281-06.

**XHOR-C046 CHAINSAW WORKSHOP SERIES, 2.40 CEUS**

This chainsaw workshop is for everyone that is interested in learning about or improving skills with chainsaws from first timers to seasoned professionals. No experience necessary. Students with career aspirations in arboriculture or forestry, as well as industry professionals are welcome. This four-part workshop series is intentionally designed to progress sequentially from foundational knowledge to applied skills, beginning with equipment maintenance and operation, followed by cutting system maintenance, and culminating in applied chainsaw operation and tree felling techniques.

oc	<b>XHOR-C046-01</b>	<b>353162</b>	<b>S</b>		<b>9-3:30 PM</b>	
	E. ROBERTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Meets: 7/18-8/8.

**Human Services**

**HS-103 ETHICS FOR HUMAN SERVICE WORKERS, 2 CREDITS**

Explores the professional issues students will face when in a helping relationship. Introduces the professional codes of ethics associated with the helping professions. Addresses solving ethical dilemmas using professional guidelines. Topics include client rights, confidentiality, professional boundaries, legal issues in helping, competence, and cultural diversity.

ONL LCT	<b>HS-103-01</b>	<b>348554</b>				
	J. SHANNON	\$272.00	\$28.00	\$0.00	\$300.00	

Meets: 6/22-8/13.

**HS-104 USING DIAGNOSTIC CRITERIA IN SUBSTANCE USE TREATMENT, 2 CREDITS**

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**HAR:** Harmony Community Campus  
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**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	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
		Instructor		Tuition Fee	Crs. Fee	

This course will present an overview of The American Society of Addiction Medicine (ASAM) Criteria and the Diagnostic and Statistical Manual (DSM) criteria related to addiction and substance use. Students will gain familiarity with the use of the ASAM Criteria to enhance the use of multidimensional assessments to develop patient-centered service plans. Students will also gain knowledge about the use of the DSM Manual to guide diagnosis and treatment of Substance Use Disorders.

ONL LCT	<b>HS-104-01</b>	<b>348555</b>				
	K. STORY	\$272.00	\$28.00	\$0.00	\$300.00	

Meets: 6/22-8/13.

**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

OC HYB	<b>HS-210-01</b>	<b>348556</b>	<b>M</b>		<b>4:30 -5:50 PM</b>	
	J. MAZARELLA	\$408.00	\$42.00	\$0.00	\$450.00	

This class meets on six Mondays via Zoom (6/22, 7/6, 7/20, 8/3, 8/17, 8/31) from 4:30 PM to 5:50 PM.

**HS-211 INFECTIOUS DISEASES AND HARM REDUCTION, 1 CREDIT**

This course will explore the relationship between substance use and infectious diseases, and discuss methods for reducing transmission of these diseases. Diseases will include HIV/AIDS, tuberculosis, hepatitis, and sexually transmitted infections. This course will provide students with techniques for assisting clients with assessing risk, practicing harm reduction, and evaluating treatment options.

ONL	<b>HS-211-01</b>	<b>348557</b>				
	C. BAKER	\$136.00	\$14.00	\$0.00	\$150.00	

Meets: 6/22-8/13.

**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

ONL	<b>HS-270-01</b>	<b>348558</b>				
	J. SHANNON	\$272.00	\$28.00	\$0.00	\$300.00	

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

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

**Prerequisites:** HS-170

**Corequisites:** HS-270

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Total
	Instructor						Crs. Fee	
OC LCT	<b>HS-280-01</b> 348559 J. LOVELESS Required: Student Petition.				\$816.00	\$84.00	\$45.00	\$945.00V
<b>HS-281</b>	<b>HUMAN SERVICES GENERALIST II: CWE/PRACTICUM, 2-6 CREDITS (VAR)</b> 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. <b>Prerequisites:</b> HS-170 <b>Corequisites:</b> HS-270							
OC LCT	<b>HS-281-01</b> 348560 J. LOVELESS Required: Student Petition.				\$816.00	\$84.00	\$45.00	\$945.00V

**Humanities**

<b>HUM-160</b>	<b>FAITH &amp; REASON, 4 CREDITS</b> An introduction of how personal concepts of faith & reason and institutions of science & religion shape personal intellectual landscapes. Examines classical philosophy, sacred texts, worldviews, modern fiction, poetry, theology, cosmology, and evolutionary biology. <b>Recommended Prerequisites:</b> WRD-098 or placement in WR-121Z							
ONL	<b>HUM-160-01</b> 348566 J. SHELTON Meets: 6/22-8/13.				\$544.00	\$56.00	\$0.00	\$600.00

**Journalism**

<b>J-280</b>	<b>JOURNALISM/CWE, 2-6 CREDITS</b> Cooperative work experience. Provides the student with on-the-job experience and training related to journalism. Required: Student Petition. <b>Corequisites:</b> CWE-281 <b>Recommended Prerequisites:</b> J-215							
ONL NCT	<b>J-280-01</b> 348725 M. JONES Meets: 6/22-8/13. Required: Student Petition.				\$816.00	\$84.00	\$45.00	\$945.00V
<b>J-280A</b>	<b>PUBLIC RELATIONS/CWE, 2-6 CREDITS</b> Cooperative work experience. Provides the student with on-the-job experience and training related to public relations. Required: Student Petition. <b>Corequisites:</b> CWE-281							
ONL NCT	<b>J-280A-01</b> 348726 M. JONES Meets: 6/22-8/13. Required: Student Petition.				\$816.00	\$84.00	\$45.00	\$945.00V

**Library**

<b>LIB-101</b>	<b>INTRODUCTION TO LIBRARY RESEARCH, 1 CREDIT</b> Introduces and strengthens college-level research skills. Students will build an understanding of strategies for finding, evaluating, and using information responsibly. Prepares students for success in research-based college assignments and real-life research needs.							
ONL LCT	<b>LIB-101-01</b> 348727 S. NOLAN Meets: 6/22-8/13.				\$0.00	\$0.00	\$0.00	\$0.00

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**Machine Tool Technology**

<b>MTT-111</b>	<b>MANUAL MACHINING I, 4 CREDITS</b> 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. <b>Recommended Prerequisite or Corequisite:</b> MFG-104 and MTH-050							
OC	<b>MTT-111-01</b> 348749 MW J. TRAVER Meets: 6/22-8/13.				\$544.00	\$56.00	\$205.00	\$805.00

<b>MTT-113</b>	<b>MANUAL MACHINING III, 4 CREDITS</b> This course is a continuation of machine tool operations. Topics covered include offset boring heads, rotary tables, indexing devices, taper attachments and cylindrical grinding. Additional emphasis is also placed on inspections technique, technical math and optical comparators. <b>Prerequisites:</b> MTT-112							
OC	<b>MTT-113-01</b> 348750 MW J. TRAVER Meets: 6/22-8/13.				\$544.00	\$56.00	\$205.00	\$805.00

<b>MTT-121</b>	<b>CNC I: SET-UP AND OPERATION, 4 CREDITS</b> This is the first course in the CNC sequence. Students will learn basic skills including how to properly set-up and operate both CNC milling and turning centers. Students will also learn G & M codes related to basic machine set-up and operation. Designed for persons with little or no previous CNC experience.							
OC	<b>MTT-121-01</b> 353067 TTH J. CARLSTON Meets: 6/22-8/13.				\$544.00	\$56.00	\$205.00	\$805.00

<b>MTT-141</b>	<b>CAD/CAM I, 4 CREDITS</b> This course is the first in the CAM series and will introduce students to computer-aided part creation and programming. Students will use CAD/CAM software to generate Numerical Control (NC) code to produce machined products. Model creation, process verification, code generation, and CAD/CAM integration will be covered. <b>Recommended Prerequisites:</b> MTT-121							
OC NCT	<b>MTT-141-01</b> 348752 TTH C. LETTENMAIER Meets: 6/22-8/13.				\$544.00	\$56.00	\$205.00	\$805.00

**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.*

<b>MFG-104</b>	<b>PRINT READING, 3 CREDITS</b> Introduction to basic print reading. Students will use the principles of orthographic projection and current industry standards as they apply this knowledge to interpreting manufacturing prints.							
OC HYB	<b>MFG-104-01</b> 348733 TH C. CONNORS Meets: 6/22-8/13.				\$408.00	\$42.00	\$153.75	\$603.75

<b>MFG-107</b>	<b>INDUSTRIAL SAFETY &amp; FIRST AID, 3 CREDITS</b>							
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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			

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	<b>MFG-107-01</b>	<b>348735 W</b>			<b>12-2:50 PM</b>	
	L. HILLYARD	\$408.00	\$42.00	\$153.75	\$603.75	
	Meets: 6/22-8/13.					

**MFG-110 MANUFACTURING SPECIAL PROJECTS, 1-3 CREDITS (VAR)**

Allows students a great deal of latitude in project selection, design & production utilizing manual machine tools, CNC machine tools, CAD/CAM and electrical discharge machines. A solid understanding of all basic machine tools is expected. May be repeated for up to 9 credits. Required: Student Petition.

OC NCT	<b>MFG-110-01</b>	<b>348742 TTH</b>			<b>4-9:20 PM</b>	
	C. LETTENMAIER	\$408.00	\$42.00	\$153.75	\$603.75	
	Meets: 6/22-8/13. Required: Student Petition.					

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

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

**Corequisites:** CWE-281

ONL NCT	<b>MFG-280-01</b>	<b>348748</b>				
	C. CONNORS	\$816.00	\$84.00	\$75.00	\$975.00	
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

**Mathematics**

**MTH-020 FUNDAMENTALS OF ARITHMETIC II, 4 CREDITS**

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

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

ONL NCT	<b>MTH-020-01</b>	<b>348568</b>				
	TBA	\$544.00	\$56.00	\$20.00	\$620.00	
	Meets: 6/22-8/13.					

**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

REM NCT ESPAÑOL	<b>MTH-020ES-01</b>	<b>348571 TTH</b>			<b>4-5:50 PM</b>	
	A. ARISTIZABAL	\$544.00	\$56.00	\$20.00	\$620.00	
	Meets: 6/22-8/13.					

**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.

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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			

**Prerequisites:** MTH-020 with a C or better, or placement in MTH-050 or higher

OC LCT	<b>MTH-050-01</b>	<b>348573 MW</b>			<b>9-11:50 AM</b>	
	A. ARISTIZABAL	\$544.00	\$56.00	\$27.00	\$627.00	
	Meets: 6/22-8/13.					

**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	<b>MTH-050ES-01</b>	<b>348576 F</b>			<b>5-9:20 PM</b>	
	A. ARISTIZABAL	\$544.00	\$56.00	\$27.00	\$627.00	
	Meets: 6/22-8/13.					

**MTH-060 ALGEBRA I, 4 CREDITS**

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

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

HAR NCT	<b>MTH-060-01</b>	<b>348579 TTH</b>			<b>9-11:50 AM</b>	
	B. WEBBER	\$544.00	\$56.00	\$27.00	\$627.00	
	Meets: 6/22-8/13.					

**MTH-065 ALGEBRA II, 4 CREDITS**

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

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

HAR NCT	<b>MTH-065-01</b>	<b>348587 TTH</b>			<b>9-11:50 AM</b>	
	B. WEBBER	\$544.00	\$56.00	\$27.00	\$627.00	
	Meets: 6/22-8/13.					

OC HYB NCT	<b>MTH-065-10</b>	<b>348583 TBA</b>				
	K. PHILLIPS	\$544.00	\$56.00	\$27.00	\$627.00	
	Meets: 6/22-8/13. This is an online section that meets for in-person testing dates only.					

**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

OC NCT	<b>MTH-095-01</b>	<b>348590 MW</b>			<b>9-11:20 AM</b>	
	J. HEVEL	\$544.00	\$56.00	\$27.00	\$627.00	
	Meets: 6/22-8/13.					

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total	Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
	Instructor		Tuition	Fee	Crs. Fee			Instructor		Tuition	Fee	Crs. Fee	
OC HYB NCT	<b>MTH-095-10 348598 TBA</b>												
	M. CHASE		\$544.00	\$56.00	\$27.00	\$627.00							
	Meets: 6/22-8/13. This is an online section that meets for in-person testing dates only.												
	<b>MTH-098 COLLEGE MATH FOUNDATIONS, 4 CREDITS</b>												
	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.												
	<b>Prerequisites:</b> MTH-020 with a C or better, or placement in MTH-050, MTH-060, or MTH-098												
ONL NCT	<b>MTH-098-10 348601</b>												
	M. JOSI		\$544.00	\$56.00	\$27.00	\$627.00							
	Meets: 6/22-8/13.												
	<b>MTH-105Z MATH IN SOCIETY, 4 CREDITS</b>												
	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.												
	<b>Prerequisites:</b> MTH-095 or MTH-098 with a C or better, or placement in MTH-111Z												
	<b>Recommended Prerequisites:</b> WRD-098 or placement in WR-121Z												
OC HYB NCT	<b>MTH-105Z-01 348607 MW</b>												
	M. CHASE		\$544.00	\$56.00	\$27.00	\$627.00							
	Meets: 6/22-8/13.												
ONL NCT	<b>MTH-105Z-10 348611</b>												
	B. HSIAO		\$544.00	\$56.00	\$27.00	\$627.00							
	Meets: 6/22-8/13.												
ONL NCT	<b>MTH-105Z-11 348612</b>												
	B. HSIAO		\$544.00	\$56.00	\$27.00	\$627.00							
	Meets: 6/22-8/13.												
	<b>MTH-111Z PRECALCULUS I: FUNCTIONS, 4 CREDITS</b>												
	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.												
	<b>Prerequisites:</b> MTH-095 with a C or better, or placement in MTH-111Z												
	<b>Recommended Prerequisites:</b> WRD-098 or placement in WR-121Z												
OC NCT	<b>MTH-111Z-01 348613 MW</b>												
	K. PHILLIPS		\$544.00	\$56.00	\$27.00	\$627.00							
	Meets: 6/22-8/13.												
OC HYB NCT	<b>MTH-111Z-10 348615 TBA</b>												
	C. WARNER		\$544.00	\$56.00	\$27.00	\$627.00							
	Meets: 6/22-8/13. This is an online section that meets for in-person testing dates only.												
	<b>MTH-112Z PRECALCULUS II: TRIGONOMETRY, 4 CREDITS</b>												
	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.												
	<b>Prerequisites:</b> MTH-111Z with a C or better, or placement in MTH-112Z												
	<b>Recommended Prerequisites:</b> WRD-098 or placement in WR-121Z												
OC NCT	<b>MTH-112Z-01 348616 MW</b>												
	C. WARNER		\$544.00	\$56.00	\$27.00	\$627.00							
	Meets: 6/22-8/13.												
OC NCT	<b>MTH-112Z-02 348618 TTH</b>												
	B. WEBBER		\$544.00	\$56.00	\$27.00	\$627.00							
	Meets: 6/22-8/13.												
	<b>MTH-211 FUNDAMENTALS OF ELEMENTARY MATH I, 4 CREDITS</b>												
	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.												
	<b>Prerequisites:</b> MTH-095 with a C or better, or MTH-105Z with C or better, or placement in MTH-111Z												
	<b>Recommended Prerequisites:</b> WRD-098 or placement in WR-121Z												
OC NCT	<b>MTH-211-01 353045 MTWTH</b>												
	S. VALDES		\$544.00	\$56.00	\$27.00	\$627.00							
	Meets: 6/22-7/8.												
	<b>MTH-212 FUNDAMENTALS OF ELEMENTARY MATH II, 4 CREDITS</b>												
	A course designed to teach students to understand the basic concepts of mathematics and provide ideas for teaching these concepts to elementary school children. Focuses on modeling and working with integers, fractions, decimals, ratios, percents, and the real numbers. Introduces elementary algebra and statistics. MTH-212 and MTH-213 can be taken in any order.												
	<b>Prerequisites:</b> MTH-211												
	<b>Recommended Prerequisites:</b> WRD-098 or placement in WR-121Z												
OC NCT	<b>MTH-212-01 353046 MTWTH</b>												
	E. KELLY		\$544.00	\$56.00	\$27.00	\$627.00							
	Meets: 7/13-7/29.												
	<b>MTH-213 FUNDAMENTALS OF ELEMENTARY MATH III, 4 CREDITS</b>												
	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 geometry, measurement, geometric mapping, probability, and counting techniques. MTH-212 and MTH-213 can be taken in any order.												
	<b>Prerequisites:</b> MTH-211												
	<b>Recommended Prerequisites:</b> WRD-098 or placement in WR-121Z												
OC NCT	<b>MTH-213-01 353047 MTWTH</b>												
	M. PRICE		\$544.00	\$56.00	\$27.00	\$627.00							
	Meets: 8/3-8/19.												
	<b>MTH-251Z DIFFERENTIAL CALCULUS, 4 CREDITS</b>												

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

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

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

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

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

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 HYB NCT	<b>MTH-251Z-10</b>	<b>348619 TBA</b>				
	B. HSIAO	\$544.00	\$56.00	\$27.00	\$627.00	
	Meets: 6/22-8/13. This is an online section that meets for in-person testing dates only.					

**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	<b>MTH-252Z-01</b>	<b>348622 TTH</b>			<b>1-3:50 PM</b>	
	M. HAUGEN	\$544.00	\$56.00	\$27.00	\$627.00	
	Meets: 6/22-8/13.					

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

This course explores real-valued sequences and series, including power and Taylor series. Topics include convergence and divergence tests and applications. These topics will be explored graphically, numerically, and symbolically. This course emphasizes abstraction, problem-solving, reasoning, communication, connections with other disciplines, and the appropriate use of technology.

**Prerequisites:** MTH-252Z with a C or better  
**Recommended Prerequisites:** WRD-098 or placement in WR-121Z

OC NCT	<b>MTH-253Z-01</b>	<b>348625 TTH</b>			<b>1-3:50 PM</b>	
	K. PHILLIPS	\$544.00	\$56.00	\$27.00	\$627.00	
	Meets: 6/22-8/13.					

**MTH-254 VECTOR CALCULUS, 5 CREDITS**

This course is an introduction to the study of vectors and analytic geometry in three-space, the calculus of vector-valued functions, and the calculus of several variables.

**Prerequisites:** MTH-252Z with a C or better

OC HYB NCT	<b>MTH-254-01</b>	<b>348628 W</b>			<b>1-4:50 PM</b>	
	A. HALL	\$680.00	\$70.00	\$27.00	\$777.00	
	Meets: 6/22-8/13.					

**MTH-256 DIFFERENTIAL EQUATIONS, 4 CREDITS**

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

**Prerequisites:** MTH-252Z with a C or better

OC HYB NCT	<b>MTH-256-01</b>	<b>348629 W</b>			<b>9-11:50 AM</b>	
	A. HALL	\$544.00	\$56.00	\$27.00	\$627.00	
	Meets: 6/22-8/13.					

**MTH-261 LINEAR ALGEBRA, 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

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

This course is an introduction to linear analysis of n-space: systems of linear equations, vectors, matrices, matrix operations, linear transformations, linear independence, span, bases, subspaces, determinants, eigenvalues, eigenvectors, inner products, diagonalization, and applications of these topics.

**Prerequisites:** MTH-252Z with a C or better  
**Recommended Prerequisites:** WRD-098 or placement in WR-121Z

OC NCT	<b>MTH-261-01</b>	<b>348631 TTH</b>			<b>9-11:50 AM</b>	
	M. HAUGEN	\$544.00	\$56.00	\$27.00	\$627.00	
	Meets: 6/22-8/13.					

**Medical Billing and Coding**

**MBC-225 ICD-10, CPT AND HCPCS CODING II, 5 CREDITS**

This course will demonstrate fundamental medical coding skills for professional services, such as physicians, mid-level providers, etc. Students will explore the basics of diagnostic and procedural medical coding related to the International Classification of Diseases, Revision 10 -Clinical Modification (ICD-10 CM), Current Procedural Terminology (CPT) and Healthcare Common Procedure Coding System (HCPCS) Code Sets.

**Prerequisites:** MBC-120, MBC-125, and MBC-126 with a C or better  
**Required:** Medical Billing and Coding students only

REM	<b>MBC-225-01</b>	<b>348415 M</b>			<b>6-9:00 PM</b>	
	C. GARNER	\$680.00	\$70.00	\$320.00	\$1,070.00	

**Music**

**MUS-280 MUSIC/CWE, 2-6 CREDITS (VAR)**

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

**Corequisites:** CWE-281  
**Prerequisites:** MUS-107, MUS-140, and MUS-142

OC NCT	<b>MUS-280-01</b>	<b>348454</b>				
	C. DOGGETT	\$816.00	\$84.00	\$144.00	\$1,044.00V	
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

OC NCT	<b>MUS-280-02</b>	<b>348455</b>				
	G. HARRIS	\$816.00	\$84.00	\$144.00	\$1,044.00V	
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

**XMUP-0001 UNISTUS CHOIR, 0 CREDIT**

Select vocal ensemble which rehearses and performs choral music from the Renaissance to the 20th century, including the music of Estonia. Provides preparation for entering professional fields of music and performance. Emphasis on a cappella singing applied to appropriate chamber music. Provides an environment whereby individual students, selected according to their talents and attitudes, may assist the group at large in achieving its full potential which is that of excellence in choral expression. The achievement of this potential is our goal. By audition.

OC	<b>XMUP-0001-01</b>	<b>348461 M</b>			<b>6:30 -9:20 PM</b>	
	L. CLINE	\$0.00	\$0.00	\$0.00	\$0.00	

**Music: Individual Lessons - Non-Music Majors**

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

**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			
Private lessons for beginners, non-music majors, and students who receive a low rating in MUP-171 through MUP-191 auditions. Brass, woodwind, percussion, string and keyboard instruments, and voice. May be repeated for up to 12 credits. Required: Student Petition.						
OC NCT	<b>MUP-100-01 348416 TBA</b>					
	K. POLITZER	\$136.00	\$14.00	\$225.00	\$375.00	
	Required: Student Petition. Jazz Piano Lessons.					
OC NCT	<b>MUP-100-02 348417 TBA</b>					
	Y. MIYAMA	\$136.00	\$14.00	\$225.00	\$375.00	
	Required: Student Petition. Piano Lessons.					
OC NCT	<b>MUP-100-03 348418 TBA</b>					
	D. FLESCHNER	\$136.00	\$14.00	\$225.00	\$375.00	
	Required: Student Petition. Rock, Blues, and Pop Piano Lessons.					
OC NCT	<b>MUP-100-04 348419 TBA</b>					
	J. ISRAELS	\$136.00	\$14.00	\$225.00	\$375.00	
	Required: Student Petition. Voice Lessons.					
OC NCT	<b>MUP-100-05 348420 TBA</b>					
	B. MICHAEL	\$136.00	\$14.00	\$225.00	\$375.00	
	Required: Student Petition. Voice Lessons.					
OC NCT	<b>MUP-100-06 348421 TBA</b>					
	C. AVERILL	\$136.00	\$14.00	\$225.00	\$375.00	
	Required: Student Petition. Cello Lessons.					
OC NCT	<b>MUP-100-07 348422 TBA</b>					
	K. DEITZ	\$136.00	\$14.00	\$225.00	\$375.00	
	Required: Student Petition. Bass Lessons.					
OC NCT	<b>MUP-100-08 348423 TBA</b>					
	D. TUTMARK	\$136.00	\$14.00	\$225.00	\$375.00	
	Required: Student Petition. Guitar Lessons.					
OC NCT	<b>MUP-100-09 348424 TBA</b>					
	A. CSIKOS	\$136.00	\$14.00	\$225.00	\$375.00	
	Required: Student Petition. Jazz Guitar Lessons.					
OC NCT	<b>MUP-100-10 348425 TBA</b>					
	G. HARRIS	\$136.00	\$14.00	\$225.00	\$375.00	
	Required: Student Petition. Saxophone Lessons.					
OC NCT	<b>MUP-100-11 348426 TBA</b>					
	J. KLAUSE	\$136.00	\$14.00	\$225.00	\$375.00	
	Required: Student Petition. Trumpet Lessons.					
OC NCT	<b>MUP-100-12 348427 TBA</b>					
	C. DOGGETT	\$136.00	\$14.00	\$225.00	\$375.00	
	Required: Student Petition. Percussion & Drum Set Lessons.					
OC NCT	<b>MUP-100-14 348429 TBA</b>					
	T. STOJANOVIC	\$136.00	\$14.00	\$225.00	\$375.00	
	Required: Student Petition. Piano Lessons.					
OC NCT	<b>MUP-100-15 348430 TBA</b>					
	C. LEE	\$136.00	\$14.00	\$225.00	\$375.00	
	Required: Student Petition. Oboe Lessons.					
OC NCT	<b>MUP-100-16 348431 TBA</b>					
	B. GARDINER	\$136.00	\$14.00	\$225.00	\$375.00	
	Required: Student Petition. Percussion Lessons.					
OC NCT	<b>MUP-100-17 348432 TBA</b>					
	B. LEE	\$136.00	\$14.00	\$225.00	\$375.00	
	Required: Student Petition. Bass Lessons.					

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

**Campus Locations:**

- HAR:** Harmony Community Campus
- OC:** Oregon City Campus
- WILS:** Wilsonville Training Center
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- REM:** Remote (w/ scheduled meetings)
- HYB:** In-person plus online work

**Other Coding Translations:**

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

**ESPAÑOL:** Enseñado en español

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

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time	Total
Instructor	Tuition	Fee	Crs. Fee			
ONL LCT	<b>PHL-101-01 348635</b>					
	K. HADDIX	\$544.00	\$56.00	\$0.00	\$600.00	
	Meets: 6/22-8/13.					

**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

ONL NCT	<b>PHL-102-01 348638</b>					
	M. BAILEY	\$544.00	\$56.00	\$0.00	\$600.00	
	Meets: 6/22-8/13.					

Phlebotomy

**PHB-125 PROFESSIONALISM IN HEALTHCARE, 1 CREDIT**

This course is designed to support the transition from practicum to employment by exploring nationally recognized credentialing options, summarizing essential skills related to phlebotomy, and finalizing professional portfolio for employment.

**Required:** Acceptance into the Phlebotomy program

**Prerequisites:** PHB-110, PHB-112, and PHB-115

**Corequisites:** PHB-130

ONL	<b>PHB-125-01 348459</b>					
	E. ZUNIGA	\$136.00	\$14.00	\$100.00	\$250.00	

**PHB-130 PHLEBOTOMY PRACTICUM, 5 CREDITS**

Provide hands-on experience in a supervised and accredited laboratory or clinical environment, providing the opportunity for students to apply practical skills and knowledge learned in previous courses and gain professional experience in a healthcare environment.

**Required:** Acceptance into the Phlebotomy program. Compliance with the Oregon Health Authority rules for students. Vaccination records for Tdap, MMR, Varicella, Hep B, COVID-19. Completed criminal background check, drug screen, and BLS CPR card through the American Heart Association

**Prerequisites:** PHB-110, PHB-112, and PHB-115

**Corequisites:** PHB-125

HAR	<b>PHB-130-01 348460 TBA</b>					
	E. ZUNIGA	\$680.00	\$70.00	\$135.00	\$885.00	

Physical Education

**PE-185 PHYSICAL ACTIVITY CLASSES, 1 CREDIT**

**Recommended:** Current physical examination before enrolling

**WALK, JOG, FITNESS I, 1 CREDIT**

ONL NCT	<b>PE-185-011 348754</b>					
	J. RHODEN	\$136.00	\$14.00	\$30.00	\$180.00	
	Meets: 6/22-8/13.					

Political Science

**PS-201 AMERICAN GOVERNMENT AND POLITICS, 4 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

Examines the founding principles of the American government, as well as the Constitution, the separation of powers, and the three branches of government, political parties and elections, and the role of interest groups and the media in the political process. In addition, assesses the growing power of the executive branch, the expansion and reach of the federal bureaucracy, governmental policies, and the civil liberties and civil rights of American citizens.

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

ONL NCT	<b>PS-201-01</b>	<b>348641</b>				
	J. HITE		\$544.00	\$56.00	\$0.00	\$600.00
	Meets: 6/22-8/13.					

## 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

ONL NCT	<b>PSY-101-01</b>	<b>348643</b>				
	M. MALLATT		\$408.00	\$42.00	\$0.00	\$450.00
	Meets: 6/22-8/13.					

ONL NCT	<b>PSY-101-01ASE</b>	<b>348649</b>				
	M. MALLATT		\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 6/22-8/13. Required: Student Petition.					

### 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	<b>PSY-201Z-01</b>	<b>348651</b>	<b>MTWTH</b>	<b>8-9:50 AM</b>		
	J. KISSLER		\$544.00	\$56.00	\$0.00	\$600.00
	Meets: 6/22-7/30.					

### 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	<b>PSY-202Z-01</b>	<b>353060</b>	<b>MTWTH</b>	<b>10-11:50 AM</b>		
	J. KISSLER		\$544.00	\$56.00	\$0.00	\$600.00
	Meets: 6/22-7/30.					

### 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

#### Campus Locations:

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**WILS:** Wilsonville Training Center  
**OFF:** Other Off-Campus Location

#### Distance Education Notification:

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

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	<b>PSY-215-01</b>	<b>348652</b>	<b>MW</b>	<b>9-11:45 AM</b>		
	E. SAUBER		\$544.00	\$56.00	\$0.00	\$600.00
	Meets: 6/22-8/13.					

ONL	<b>PSY-215-02</b>	<b>348654</b>				
	S. KISER		\$544.00	\$56.00	\$0.00	\$600.00
	Meets: 6/22-8/13.					

### 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

ONL NCT	<b>PSY-219-01</b>	<b>348655</b>				
	E. SAUBER		\$544.00	\$56.00	\$0.00	\$600.00
	Meets: 6/22-8/13.					

### 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	<b>PSY-280-01</b>	<b>348662</b>				
	J. KISSLER		\$816.00	\$84.00	\$45.00	\$945.00V
	Required: Student Petition. Meets: 6/22-8/13. Corequisite: Take the following CWE-281-06.					

## Religion

### R-101 JUDAISM AND FOUNDATIONS OF RELIGION, 4 CREDITS

An introduction to religious topics, meaning of sacred, the nature of myth and story, ideas of God/god, ancient religions, and Judaism.

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

ONL	<b>R-101-01</b>	<b>348664</b>				
	J. SHELTON		\$544.00	\$56.00	\$0.00	\$600.00
	Meets: 6/22-8/13.					

## 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, 1-12 CREDITS

Cooperative work experience. Major emphasis on work-based learning experience in the renewable energy field. Coordination of instruction and evaluation of student job performance will be provided by college faculty in conjunction with the student's employer/supervisor. Required: Student Petition.

**Corequisites:** CWE-281

ONL NCT	<b>RET-280-01</b>	<b>348756</b>				
	C. CONNORS		\$1,632.00	\$168.00	\$570.00	\$2,370.00V
	0					

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

## Small Business Development Center

#### 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	

Registration for these workshops does not require college admission. E-mail [bizcenter@clackamas.edu](mailto: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](http://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-010-01SU	353099	TH		6-9:00 PM	
	TBA		S	\$0.00	9-5:00 PM	\$0.00
				\$0.00		\$0.00

**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-011-01SU	353100	T		6-8:00 PM	
	TBA			\$0.00		\$0.00
				\$0.00		\$0.00

**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-0003-01SU	353101	TH		6:30 -9:30 PM	
	J. SELBY			\$0.00		\$0.00
REM	XSBM-0003-02SU	353102	TH		6:30 -9:30 PM	
	J. SELBY			\$0.00		\$0.00
REM	XSBM-0003-03SU	353103	TH		6:30 -9:30 PM	
	J. SELBY			\$0.00		\$0.00

**XSBM-0005 GOING OUT OF BUSINESS, 0 CREDIT**

This is a class that helps a business owner begin understanding steps involved in transitioning their business. There are many considerations both for the owner, family members/heirs, employees, customers and vendors as well as the community.

REM	XSBM-0005-01SU	353112	TH		6:30 -8:30 PM	
	D. TOURNEY			\$0.00		\$0.00
REM	XSBM-0005-02SU	353113	TH		6:30 -8:30 PM	
	D. TOURNEY			\$0.00		\$0.00

**XSBM-0010 PREPARING FOR THE CCB EXAM, 0 CREDIT**

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

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

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

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

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

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-0010-30SU	353104	WTH		8-5:00 PM	
	O. FERRER		WTH	\$0.00	11-1:30 PM	
			WTH	\$0.00	3:30 -5:00 PM	\$0.00
HAR	XSBM-0010-33SU	353106	WTH		8-5:00 PM	
	TBA		WTH	\$0.00	11-1:30 PM	
			WTH	\$0.00	3:30 -5:00 PM	\$0.00
HAR	XSBM-0010-35SU	348049	THF		8-5:00 PM	
	TBA		THF	\$0.00	11-1:30 PM	
			THF	\$0.00	3:30 -5:00 PM	\$0.00

**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-0011-21SU	353108	W		6-9:00 PM	
	C. WEESNER			\$0.00		\$0.00
				\$0.00		\$0.00

**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-0012-22SU	353109	S		8-5:00 PM	
	C. WEESNER			\$0.00		\$0.00
				\$0.00		\$0.00

**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-0024-01SU	353110				
	D. TOURNEY			\$0.00		\$0.00
ONL	XSBM-0024-02SU	353111				
	D. TOURNEY			\$0.00		\$0.00

**Social Science**

**SSC-160 FAITH & REASON, 4 CREDITS**

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

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

ONL	SSC-160-01	348680				
	J. SHELTON			\$544.00	\$56.00	\$0.00
						\$600.00

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

## 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	<b>SOC-204Z-01</b>	<b>348665 W</b>			<b>1-3:45 PM</b>	
	E. PFEIFER	\$544.00	\$56.00	\$0.00		\$600.00
	Meets: 6/22-8/13.					

### SOC-206Z SOCIAL PROBLEMS, 4 CREDITS

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

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

OC HYB	<b>SOC-206Z-01</b>	<b>348669 TH</b>			<b>1-3:45 PM</b>	
	E. PFEIFER	\$544.00	\$56.00	\$0.00		\$600.00
	Meets: 6/22-8/13.					

## 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 higher with a C or better, or placement in STAT-243Z

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

OC NCT	<b>STAT-243Z-01</b>	<b>348681 MW</b>			<b>9-11:50 AM</b>	
	T. BIEBER	\$544.00	\$56.00	\$27.00		\$627.00
	Meets: 6/22-8/13.					
ONL NCT	<b>STAT-243Z-10</b>	<b>348683</b>				
	M. YANNOTTA	\$544.00	\$56.00	\$27.00		\$627.00
	Meets: 6/22-8/13.					
ONL NCT	<b>STAT-243Z-11</b>	<b>353044</b>				
	M. YANNOTTA	\$544.00	\$56.00	\$27.00		\$627.00
	Meets: 6/22-8/13.					

## Water & Environmental Technology

### 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.

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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	<b>WET-108-01</b>	<b>348758 TWTHF</b>			<b>8-4:50 PM</b>	
	J. NURMI	\$408.00	\$42.00	\$0.00		\$450.00
	Meets: 6/23-6/26. Contact Jim Nurmi at jamesn@clackamas.edu for more information.					

### 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	<b>WET-109-01</b>	<b>348759 MTWTHF</b>			<b>8-4:50 PM</b>	
	M. LAFORCE	\$544.00	\$56.00	\$0.00		\$600.00
	Required: Student Petition. Meets: 8/31-9/4.					
OC	<b>WET-109-03</b>	<b>352885 MTWTHF</b>			<b>8-4:50 PM</b>	
	M. LAFORCE	\$544.00	\$56.00	\$0.00		\$600.00
	Required: Student Petition. Meets: 6/15-6/19.					

### 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	<b>WET-180-01</b>	<b>348760</b>				
	M. LAFORCE	\$680.00	\$70.00	\$45.00		\$795.00
	Required: Student Petition. Corequisite: Take the following CWE-281-03.					

### 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	<b>WET-280-01</b>	<b>348761</b>				
	M. LAFORCE	\$680.00	\$70.00	\$45.00		\$795.00
	Required: Student Petition. Corequisite: Take the following CWE-281-03.					

### 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	<b>XWET-C002-11</b>	<b>348807 F</b>			<b>8-3:50 PM</b>	
	M. LAFORCE	\$0.00	\$0.00	\$0.00		\$0.00
	Meets: 6/26. Fee: \$125.00. Go to ccc-wet.eventbrite.com to sign up.					

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

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

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	<b>XWET-C003-21</b>	<b>348808 TTH</b>				<b>8-3:50 PM</b>
	M. LAFORCE	\$0.00	\$0.00	\$0.00		\$0.00
	Meets: 8/27-8/28. Fee: \$250.00. 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	<b>XWET-C004-41</b>	<b>348809 TWTHF</b>				<b>8-4:50 PM</b>
	J. NURMI	\$0.00	\$0.00	\$0.00		\$0.00
	Meets: 6/23-6/26 Fee: \$550.00. Go to ccc-wet.eventbrite.com to sign up.					

**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	<b>XWET-C005-51</b>	<b>348810 MTWTHF</b>				<b>8-5:00 PM</b>
	M. LAFORCE	\$0.00	\$0.00	\$0.00		\$0.00
	Meets: 8/31-9/4. Fee: \$675.00. Go to ccc-wet.eventbrite.com to sign up.					

oc	<b>XWET-C005-53</b>	<b>352888 MTWTHF</b>				<b>8-4:50 PM</b>
	M. LAFORCE	\$0.00	\$0.00	\$0.00		\$0.00
	Meets: 6/15-6/19.					

**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**

**Campus Locations:**  
**HAR:** Harmony Community Campus  
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**Other Coding Translations:**  
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**VAR:** Variable credit class

**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
		Instructor		Tuition	Fee	Crs. Fee

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	<b>WLD-100-01</b>	<b>348762 T</b>				<b>5-8:50 PM</b>
	M. TIZO	\$408.00	\$42.00	\$219.00		\$669.00
	Meets: 6/22-8/21.					

**WLD-102 INTRODUCTION TO WELDING, 2 CREDITS**

Designed for the beginner and experimental welder. Includes: oxy-acetylene cutting and welding, SMAW (Shielded Metal Arc Welding), GMAW & FCAW (Gas Metal Arc Welding & Flux Core Arc Welding) and GTAW (Gas Tungsten Arc Welding) and plasma arc cutting.

oc NCT	<b>WLD-102-01</b>	<b>348763 S</b>				<b>8-12:50 PM</b>
	K. DRURY	\$272.00	\$28.00	\$146.00		\$446.00
	Meets: 6/22-8/22.					

**WLD-110 WELDER CERTIFICATION, 4 CREDITS**

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

oc NCT	<b>WLD-110-01</b>	<b>348764 MW</b>				<b>8-12:50 PM</b>
	D. PODKOWA	\$544.00	\$56.00	\$432.00		\$1,032.00
	Required: Student Petition. Meets: 6/22-8/21.					

oc NCT	<b>WLD-110-02</b>	<b>348765 MW</b>				<b>5-9:50 PM</b>
	M. TIZO	\$544.00	\$56.00	\$432.00		\$1,032.00
	Required: Student Petition. Meets: 6/22-8/21.					

oc NCT	<b>WLD-110-04</b>	<b>348766 TTH</b>				<b>10:30 -3:20 PM</b>
	B. MULLIGAN	\$544.00	\$56.00	\$432.00		\$1,032.00
	Required: Student Petition. Meets: 6/22-8/21.					

oc NCT	<b>WLD-110-05</b>	<b>348767 TTH</b>				<b>5-9:50 PM</b>
	B. MULLIGAN	\$544.00	\$56.00	\$432.00		\$1,032.00
	Required: Student Petition. Meets: 6/22-8/21.					

**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	<b>WLD-113-01</b>	<b>348768 MTWTH</b>				<b>5-9:50 PM</b>
	K. DRURY	\$1,088.00	\$112.00	\$584.00		\$1,784.00
	Meets: 6/22-8/21.					

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

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

oc	<b>WLD-113A-01</b>	<b>348769 MW</b>				<b>5-9:50 PM</b>
	K. DRURY	\$544.00	\$56.00	\$292.00		\$892.00
	Meets: 6/22-8/21.					

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

**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	<b>WLD-113B-01 348771 TTH</b>				<b>5-9:50 PM</b>	
	K. DRURY	\$544.00	\$56.00	\$292.00		\$892.00
	Meets: 6/22-8/21.					

**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	<b>WLD-115-01 348772 MTWTH</b>				<b>8-12:50 PM</b>	
	R. ABBOTT	\$1,088.00	\$112.00	\$584.00		\$1,784.00
	Meets: 6/22-8/21.					

**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	<b>WLD-115A-01 348773 MW</b>				<b>8-12:50 PM</b>	
	R. ABBOTT	\$544.00	\$56.00	\$292.00		\$892.00
	Meets: 6/22-8/21.					

**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	<b>WLD-115B-01 348774 TTH</b>				<b>8-12:50 PM</b>	
	R. ABBOTT	\$544.00	\$56.00	\$292.00		\$892.00
	Meets: 6/22-8/21.					

**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	<b>WLD-150-01 348775 MW</b>				<b>8-12:50 PM</b>	
	D. PODKOWA	\$544.00	\$56.00	\$292.00		\$892.00
	Meets: 6/22-8/21.					
oc NCT	<b>WLD-150-02 348776 MW</b>				<b>5-9:50 PM</b>	
	M. TIZO	\$544.00	\$56.00	\$292.00		\$892.00
	Meets: 6/22-8/21.					

**WLD-200 WELDER'S PRINT READING II, 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
	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	<b>WLD-200-01 348777 W</b>				<b>1-4:50 PM</b>	
	D. PODKOWA	\$408.00	\$42.00	\$219.00		\$669.00
	Meets: 6/22-8/21.					

**WLD-215 ADVANCED GAS TUNGSTEN ARC WELDING, 4 CREDITS**

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

**Prerequisites:** WLD-115; or WLD-115A and WLD-115B

oc NCT	<b>WLD-215-01 348778 TTH</b>				<b>10:30 -3:20 PM</b>	
	B. MULLIGAN	\$544.00	\$56.00	\$292.00		\$892.00
	Meets: 6/22-8/21.					

**WLD-250 WELDING FABRICATION I BEGINNING PROJECT, 4 CREDITS**

This course consists of lecture and lab and provides instruction in fabrication techniques including blueprint reading, layout, sketching, bills of material, job cost calculations, measuring, fitting, cutting and welding. Students will be assigned beginning fabrication projects. The student will be responsible for all aspects of managing the project to successful completion.

**Prerequisites:** WLD-111, WLD-111A and WLD-111B, WLD-113, WLD-113A and WLD-113B, WLD-115, or WLD-115A and WLD-115B

oc NCT	<b>WLD-250-01 348779 TTH</b>				<b>5-9:50 PM</b>	
	B. MULLIGAN	\$544.00	\$56.00	\$292.00		\$892.00
	Meets: 6/22-8/21.					

**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	<b>WLD-251-01 348780 TTH</b>				<b>5-9:50 PM</b>	
	B. MULLIGAN	\$544.00	\$56.00	\$292.00		\$892.00
	Meets: 6/22-8/21.					

**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	<b>WLD-252-01 348781 TTH</b>				<b>5-9:50 PM</b>	
	B. MULLIGAN	\$544.00	\$56.00	\$292.00		\$892.00
	Meets: 6/22-8/21.					

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

**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	<b>WLD-261-01</b>	<b>348782 M</b>			<b>8-12:50 PM</b>	
	R. ABBOTT	\$272.00	\$28.00	\$146.00	\$446.00V	
	Required: Student Petition. Meets: 6/22-8/21.					
OC NCT	<b>WLD-261-02</b>	<b>348783 M</b>			<b>5-9:50 PM</b>	
	K. DRURY	\$272.00	\$28.00	\$146.00	\$446.00V	
	Required: Student Petition. Meets: 6/22-8/21.					
OC NCT	<b>WLD-261-03</b>	<b>348784 T</b>			<b>8-12:50 PM</b>	
	R. ABBOTT	\$272.00	\$28.00	\$146.00	\$446.00V	
	Required: Student Petition. Meets: 6/22-8/21.					
OC NCT	<b>WLD-261-05</b>	<b>348786 T</b>			<b>5-9:50 PM</b>	
	K. DRURY	\$272.00	\$28.00	\$146.00	\$446.00V	
	Required: Student Petition. Meets: 6/22-8/21.					
OC NCT	<b>WLD-261-06</b>	<b>348787 W</b>			<b>8-12:50 PM</b>	
	R. ABBOTT	\$272.00	\$28.00	\$146.00	\$446.00V	
	Required: Student Petition. Meets: 6/22-8/21.					
OC NCT	<b>WLD-261-07</b>	<b>348788 W</b>			<b>5-9:50 PM</b>	
	K. DRURY	\$272.00	\$28.00	\$146.00	\$446.00V	
	Required: Student Petition. Meets: 6/22-8/21.					
OC NCT	<b>WLD-261-08</b>	<b>348789 TH</b>			<b>8-12:50 PM</b>	
	R. ABBOTT	\$272.00	\$28.00	\$146.00	\$446.00V	
	Required: Student Petition. Meets: 6/22-8/21.					
OC NCT	<b>WLD-261-10</b>	<b>348791 TH</b>			<b>5-9:50 PM</b>	
	K. DRURY	\$272.00	\$28.00	\$146.00	\$446.00V	
	Required: Student Petition. Meets: 6/22-8/21.					
OC NCT	<b>WLD-261-11</b>	<b>348792 S</b>			<b>8-12:50 PM</b>	
	K. DRURY	\$272.00	\$28.00	\$146.00	\$446.00V	
	Required: Student Petition. Meets: 6/22-8/22.					

**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	<b>XWLD-0001-</b>	<b>348813 TBA</b>				
	01					
	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	<b>XWLD-0002-</b>	<b>348814 TBA</b>				
	01					
	B. MULLIGAN	\$0.00	\$0.00	\$280.00	\$280.00	
	Required: Student Petition.					

**XWLD-0003 AMERICAN WELDING SOCIETY CERTIFICATION RETAKE TEST, 0 CREDIT**

Welder certification on retest in any position, in accordance with AWS D1.1 for students enrolled in any CCC welding course. Required: Student Petition.

oc	<b>XWLD-0003-</b>	<b>348815 TBA</b>				
	01					
	B. MULLIGAN	\$0.00	\$0.00	\$25.00	\$25.00	
	Required: Student Petition.					

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**Other Coding Translations:**  
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**Women's Studies**

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

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

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

ONL NCT	<b>WS-101-01</b>	<b>353061</b>				
	R. MOFFETT	\$544.00	\$56.00	\$0.00	\$600.00	
	Meets: 6/22-8/13.					

**World Languages**

**SPN-101Z FIRST-YEAR SPANISH I, 4 CREDITS**

An introduction to the language, cultural practices, and perspectives of Spanish-speaking communities both locally and globally. Cultivates listening, speaking, reading, writing, and intercultural competence through conversation, cultural exploration, and other activities. Designed for beginners as the first of three in the sequence of First-year Spanish courses (SPN-101Z, SPN-102Z, and SPN-103Z). If you have experience speaking Spanish at home, in your community, or abroad, please consult with the instructor to make sure this class is the best for your level.

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

ONL NCT	<b>SPN-101Z-01</b>	<b>348673</b>				
	V. SHORT	\$544.00	\$56.00	\$10.00	\$610.00	
	Meets: 6/22-7/9.					

**SPN-102Z FIRST-YEAR SPANISH II, 4 CREDITS**

Builds on the foundational skills of Spanish 101Z including the language, cultural practices, and perspectives of Spanish-speaking communities both locally and globally. Continues to cultivate listening, speaking, reading, writing, and intercultural competence through conversation, cultural exploration, and other activities. Designed for those who have completed a term of college-level Spanish (or equivalent) as the second of three in the sequence of First-year Spanish courses (SPN-101Z, SPN-102Z, and SPN-103Z). If you have experience speaking Spanish at home, in your community, or abroad, please consult with the instructor to make sure this class is the best for your level.

**Prerequisites:** SPN-101Z

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

ONL NCT	<b>SPN-102Z-01</b>	<b>348675</b>				
	V. SHORT	\$544.00	\$56.00	\$10.00	\$610.00	
	Meets: 7/13-7/30.					

**SPN-103Z FIRST-YEAR SPANISH III, 4 CREDITS**

Builds on foundational skills of Spanish 102Z including the language, cultural practices, and perspectives of Spanish-speaking communities both locally and globally. Continues to cultivate communicative skills such as listening, speaking, reading, writing, and intercultural competence through conversation, cultural exploration, and other activities. Designed for those who have completed two terms of college-level Spanish (or equivalent) as the third of three in the sequence of First-year Spanish courses (SPN-101Z, SPN-102Z, and SPN-103Z). Students who successfully complete Spanish 103Z are ready to take the sequence of Second-year Spanish courses (Intermediate). If you have experience speaking Spanish at home, in your community, or abroad, please consult with the instructor to make sure this class is the best for your level.

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

**Prerequisites:** SPN-102Z

ONL NCT	<b>SPN-103Z-01</b> 348677				
	V. SHORT	\$544.00	\$56.00	\$10.00	\$610.00
	Meets: 8/3-8/20.				

**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

ONL LCT	<b>WR-101-01</b> 348684				
	L. ORMANDY	\$544.00	\$56.00	\$19.00	\$619.00
	Meets: 6/22-8/13.				

**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	<b>WR-121Z-01</b> 348686 MW			10-12:35 PM	
	J. BEREZHNOY	\$544.00	\$56.00	\$19.00	\$619.00
	Meets: 6/22-8/13.				
OC LCT	<b>WR-121Z-02</b> 348689 TTH			10-12:35 PM	
	W. DAWKINS	\$544.00	\$56.00	\$19.00	\$619.00
	Meets: 6/22-8/13.				
OC HYB LCT	<b>WR-121Z-03</b> 348691 M			1-3:35 PM	
	S. NIZIOLEK	\$544.00	\$56.00	\$19.00	\$619.00
	Meets: 6/22-8/13.				
ONL LCT	<b>WR-121Z-04</b> 348693				
	B. EHLERS	\$544.00	\$56.00	\$19.00	\$619.00
	Meets: 6/22-8/13.				
ONL LCT	<b>WR-121Z-05</b> 348694				
	M. SCHUMACHER	\$544.00	\$56.00	\$19.00	\$619.00
	Meets: 6/22-8/13.				
HAR HYB LCT	<b>WR-121Z-15</b> 348698 T			10-12:35 PM	
	H. DIERDORFF	\$544.00	\$56.00	\$19.00	\$619.00
	Meets: 6/22-8/13.				

**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	<b>WR-122Z-01</b> 348699 MW			10-12:35 PM	
	J. PETERMAN	\$544.00	\$56.00	\$19.00	\$619.00
	Meets: 6/22-8/13.				
OC HYB LCT	<b>WR-122Z-02</b> 348700 T			1-3:35 PM	
	TBA	\$544.00	\$56.00	\$19.00	\$619.00
	Meets: 6/22-8/13.				
ONL LCT	<b>WR-122Z-03</b> 348701				
	R. MURPHY	\$544.00	\$56.00	\$19.00	\$619.00
	Meets: 6/22-8/13.				

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	Section No Instructor		Tuition Fee	Crs. Fee	

ONL LCT	<b>WR-122Z-04</b> 348702				
	R. MURPHY	\$544.00	\$56.00	\$19.00	\$619.00
	Meets: 6/22-8/13.				
HAR HYB LCT	<b>WR-122Z-15</b> 348703 T			6-8:35 PM	
	TBA	\$544.00	\$56.00	\$19.00	\$619.00
	Meets: 6/22-8/13.				

**WR-140 INTRODUCTION TO WRITING CREATIVELY, 4 CREDITS**

Guides students through the discussion and practice of writing creatively in many genres and formats, primarily poetry, fiction, drama, and creative non-fiction in a workshop format. May also include screenwriting, digital story telling, film, and performance genres.

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

ONL LCT	<b>WR-140-01</b> 348707				
	T. DONNELLY	\$544.00	\$56.00	\$19.00	\$619.00
	Meets: 6/22-7/16.				

**WR-227Z TECHNICAL WRITING, 4 CREDITS**

WR-227Z introduces students to producing instructive, informative, and persuasive technical/professional documents aimed at well-defined and achievable outcomes. The course focuses on presenting information using rhetorically appropriate style, design, vocabulary, structure, and visuals. Students can expect to gather, read, and analyze information and to learn a variety of strategies for producing accessible, usable, reader-centered deliverable documents that are clear, concise, and ethical.

**Prerequisites:** WR-121Z with a C or better

OC HYB LCT	<b>WR-227Z-01</b> 348708 M			1-3:35 PM	
	TBA	\$544.00	\$56.00	\$19.00	\$619.00
	Meets: 6/22-8/13.				
ONL LCT	<b>WR-227Z-02</b> 348710				
	J. MCALPINE	\$544.00	\$56.00	\$19.00	\$619.00
	Meets: 6/22-8/13.				

**WRD-090 INTRODUCTORY COLLEGE READING & WRITING 1, 4 CREDITS**

Students discuss a variety of short, pre-college-level readings, and learn a process for developing their own paragraphs and very short essays (up to two pages). Other topics include becoming an independent reader, summarizing, and writing academically.

**Prerequisites:** Placement in WRD-090

OC LCT	<b>WRD-090-01</b> 348712 MW			10-12:35 PM	
	J. PONS	\$544.00	\$56.00	\$19.00	\$619.00
	Meets: 6/22-8/13.				

**WRD-098 INTRODUCTORY COLLEGE READING & WRITING 2, 4 CREDITS**

Preparation for writing in college-level courses. Students discuss a variety of early-college-level readings, and develop and refine their own essays (up to three pages) through a process of revision and multiple drafts. Other topics include becoming a confident reader, finding and using information, and giving credit to sources through informal citations.

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

OC LCT	<b>WRD-098-01</b> 348714 TTH			10-12:35 PM	
	A. ENCINAS	\$544.00	\$56.00	\$19.00	\$619.00
	Meets: 6/22-8/13.				
ONL LCT	<b>WRD-098-02</b> 348717				
	A. DEFREESE	\$544.00	\$56.00	\$19.00	\$619.00
	Meets: 6/22-8/13.				

**XWR-0001 CHRYSALIS WOMEN WRITERS, 0 CREDIT**

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

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	<b>XWR-0001-01</b>	<b>348724 W</b>		<b>12-1:50 PM</b>		
	P. LICHEN	\$0.00	\$0.00	\$0.00	\$0.00	
	Meets: 6/22-8/13.					

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# COMMUNITY EDUCATION

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

## Sixty years of Community Education

In the early years of Community Education, a wide range of classes could be taken at school-based partner locations across the service district and supported anyone who could gather enough people in their local area to run classes in a wide range of subjects. This included both leisure activity-based classes, as well as continuing and job-related education. Many of the courses that started as Community Education now fall under different departments as the college has grown, but we still partner across the district to provide a variety of learning opportunities. During the 1966-67 academic year the college started its Community Education program by assuming responsibility for most of the adult education classes previously operated by the high schools in the area.

One of the key themes that has remained throughout the history of Community Education at CCC is collaboration. Today, our programs operate through collaboration from parks and recreation districts, school districts and nonprofit organizations all over Clackamas County. By working together, we provide high-quality learning opportunities to thousands of community members throughout our service district.

*We value your input as we work to shape the future of Community Education at CCC. Together, with our partners, we aim to design programs that are relevant, accessible and impactful. To have your voice heard about future programing, scan the QR code and complete a short survey. We appreciate your feedback!*



SCAN TO TAKE A SURVEY

Community Education strives to be a low-cost option for the district, with partners in many locations. Have an idea for a new Community Education class or looking to partner with us? Reach us at [communityeducation@clackamas.edu](mailto:communityeducation@clackamas.edu).

### CANBY

#### Bridging Cultures

503-592-3781 | [www.bridgingculturescanby.org](http://www.bridgingculturescanby.org)

### GLADSTONE

#### Gladstone Community School

503-650-2570 | [www.clackamas.edu/gladstone](http://www.clackamas.edu/gladstone)

### MILWAUKIE

#### Milwaukie Community Center

503-794-8092 | [www.ncprd.com](http://www.ncprd.com)

#### North Clackamas Parks and Recreation

503-794-8080, ext. 0 | [www.ncprd.com](http://www.ncprd.com)

### OREGON CITY

#### Oregon City Community Education

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

#### Oregon City Swimming Pool

503-657-8273 | [www.orcity.org/904/Aquatics](http://www.orcity.org/904/Aquatics)

#### Pioneer Community Center

503-657-8287 | [www.orcity.org/499/Pioneer-Community-Center](http://www.orcity.org/499/Pioneer-Community-Center)

### TEAM OREGON

#### Motorcycle/Scooter Safety Training

800-545-9944 | [www.team-oregon.org](http://www.team-oregon.org)

### WEST LINN

#### West Linn Parks and Recreation

503-557-4700 | [www.westlinnoregon.gov/parksrec](http://www.westlinnoregon.gov/parksrec)

### WILSONVILLE

#### City of Wilsonville Parks and Recreation

503-783-PLAY | [www.wilsonvilleparksandrec.com/parksrec](http://www.wilsonvilleparksandrec.com/parksrec)

#### West Linn/Wilsonville Family Empowerment Center

503-673-7690 | [www.wlww.k12.or.us/domain/3726](http://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.