



Schedule



Summer
2025

Summer term classes begin June 23 • www.clackamas.edu • Go Far, Close to Home.

INDEX

General Information

Clackamas in Your Community	4
CCC Harmony Community Campus	4
Community Education	32
Dates to Remember/Calendar	3

Course Listings 5-31

Anatomy & Physiology	6
Anthropology	5
Arboriculture (see <i>Horticulture</i>)	
Art	5
Auto Body/Collision Repair and Refinishing.	5
Automotive Service Technology	5
Biology	5
Business Administration	7
Business Technology.	8
Chemistry	8
Communication Studies	10
Computer Science	10
Cooperative Work Experience	11
Criminal Justice/Corrections.	11
Digital Media Communications	11
Early Childhood Education.	11
Economics.	11
Education	11
Electronics & Microelectronics	12
Emergency Medical Technology.	13
English for Speakers of Other Languages	13
English Literature/Composition	14
Ethnic Studies	15
Family Studies.	15
Food & Nutrition.	15
Gardening (see <i>Horticulture</i>)	
GED-General Education Development . .	15
Geographic Information Systems (GIS). .	16
Geography	16
Geology	16
Gerontology	16
Greenhouse (see <i>Horticulture</i>)	
Health	16
Health Professions	17

History.	17
Horticulture/Arboriculture/Landscape/ Organic Farming	17
Human Services	18
Humanities	19
Journalism.	19
Landscape (see <i>Horticulture</i>)	
Library	19
Machine Tool Technology.	19
Manufacturing Technology.	20
Mathematics	20
Media Studies (see <i>Digital Multimedia Communications</i>)	
Medical Billing and Coding	22
Microbiology.	6
Microelectronics	12
Music.	22
Music: Individual Lessons - Non-Music Majors	22
Nursing	23
Nursery (see <i>Horticulture</i>)	
Nutrition	15
Organic Farming (see <i>Horticulture</i>)	
Philosophy	24
Phlebotomy	24
Physical Education	24
Political Science	24
Psychology	25
Religion.	25
Renewable Energy Technology.	25
Small Business Development Center . . .	25
Social Science.	26
Sociology	26
Spanish (see <i>World Languages</i>)	
Speech (see <i>Communication Studies</i>)	
Statistics	26
Water and Environment Technology. . . .	26
Welding Technology.	27
World Languages	29
Writing	29

3 Convenient Campuses

Oregon City

19600 Molalla Ave.
Oregon City, OR 97045

Wilsonville

29353 SW Town Center Loop E.
Wilsonville, OR 97070

Harmony

7738 SE Harmony Road
Milwaukie, OR 97222

Non-Discrimination

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

IMPORTANT DATES TO REMEMBER



CLASS START/END DATES + FINANCIAL DEADLINES *	SUMMER TERM 2025	FALL 2025	WINTER 2026
Financial aid: All required CCC financial aid documentation due to ensure funding for term	March 31	June 23	Sept. 29
Registration begins	May 12	May 19	Nov. 17
Classes begin	June 23	Sept. 29	Jan. 5
Last day to add classes without instructor consent	Instructor consent required once course begins		
Last day to drop a class with a refund (see p. 5 for more info)	July 6	Oct. 12	Jan. 18
Last day to drop classes and receive a "W" automatically	August 15	Nov. 21	Feb. 27
Last day to submit petition for graduation	August 1	Nov. 7	Feb. 13
Last day to change grading option	August 29	Dec. 5	March 13
Account balance due: \$100 non-payment fee applied if not paid	August 4	Nov. 7	Feb. 13
Final week	see syllabus	Dec. 8-13	March 16-21
Last day of term	Sept. 6	Dec. 13	March 21
Commencement: GED & Adult High School Diploma / College Certificate and Degree	Friday evening, June 13, 2025		

* 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

SUMMER TERM: June 19 Juneteenth, July 3 Fourth on July, Sept. 1 Labor Day
FALL TERM: Nov. 11 Veterans Day, Nov. 27-28 Thanksgiving, Dec. 24-25 Winter Holiday
WINTER TERM: Jan. 1 New Years Day, Jan. 19 MLK Jr. Day, Feb. 16 Presidents Day

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 2025

Harmony Community Campus

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

Biology

BI-112	GENERAL BIOLOGY FOR HEALTH SCIENCES	4 CREDITS
BI-112L	GENERAL BIOLOGY FOR HEALTH SCIENCES LAB	0 CREDIT

Chemistry

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

Communication Studies

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

Criminal Justice

CJA-101	CRIMINOLOGY	4 CREDITS
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Emergency Medical Technology

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

English for Speakers of Other Languages

ESOL-012	BEGINNING ESOL	0 CREDIT
ESOL-015	BEGINNING READING, WRITING, AND GRAMMAR	0 CREDIT
ESOL-020	UPPER BEGINNING GRAMMAR	0 CREDIT
ESOL-022	UPPER BEGINNING CONVERSATION	0 CREDIT
ESOL-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-053	ADVANCED COMMUNICATION SKILLS 2	0 CREDIT
ESOL-055	ADVANCED GRAMMAR C	0 CREDIT

ESOL-082	ASSESS/EVALUATE NEW STUDENTS	0 CREDIT
ESOL-083	EDUCATIONAL PLANNING FOR RETURNING STUDENTS	0 CREDIT

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

Nursing

NUR-100	NURSING ASSISTANT I	6.5 CREDITS
NUR-100C	NURSING ASSISTANT I CLINICAL	0 CREDIT

Phlebotomy

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

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-0011	QUICKBOOKS PRO: PART I	0 CREDIT
XSBM-0024	RECORDKEEPING & ESTIMATING	0 CREDIT

Writing

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

To register for these classes, see Credit course listing for time, date, course registration number.

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 2025

Anthropology

ANT-103 CULTURAL ANTHROPOLOGY, 4 CREDITS

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

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

ONL NCT	ANT-103-01	345041				
	K. BACA	\$520.00	\$52.00	\$0.00	\$572.00	
	Meets online: 6/23-8/14.					

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 LCT	ART-100A-01	340485	TTH	1-5:20 PM		
	J. IJIMA	\$130.00	\$13.00	\$125.00	\$268.00	
	Meets: 8/14-8/28. Focuses on Casting.					

ART-131 INTRODUCTION TO DRAWING, 4 CREDITS

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

OC	ART-131-01	345053	MTWTH	10-3:50 PM		
	D. ANDERSEN	\$520.00	\$52.00	\$80.00	\$652.00	
	Meets: 6/23-7/10.					

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	ART-281-01	345237	MTWTH	10-3:50 PM		
	R. KALMAN	\$520.00	\$52.00	\$110.00	\$682.00	
	Meets: 7/14-7/30.					

ART-284 PAINTING: STILL LIFE/INTERMEDIATE, 4 CREDITS

Campus Locations:

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

Distance Education Notification:

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

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	ART-284-01	345238	MTWTH	10-3:50 PM		
	R. KALMAN	\$520.00	\$52.00	\$110.00	\$682.00	
	Meets: 7/14-7/30.					

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	340469				
	M. HOUSE	\$780.00	\$78.00	\$45.00	\$903.00V	
	Meets: 6/23-9/6. Required: Student Petition. Corequisite: Take the following CWE-281-06.					

Automotive Service Technology

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	340480				
	N. ROBERTS	\$780.00	\$78.00	\$45.00	\$903.00V	
	Meets: 6/23-9/6. 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	340497				
	E. DEBEY	\$520.00	\$52.00	\$55.00	\$627.00	
	Labs are completed at home using a kit provided by the college. Corequisite: Take the following BI-101L-40.					

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

Lab course for BI-101

Corequisites: BI-101

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	BI-101L-40 340499 E. DEBEY Corequisite: Take the following BI-101-40.		\$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 340500 N. SEFCIKOVA Corequisite: Take the following BI-102L-40.		\$520.00	\$52.00	\$55.00	\$627.00
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BI-102L GENERAL BIOLOGY; ANIMAL SYSTEMS LAB, 0 CREDIT
Lab course for BI-102
Corequisites: BI-102

ONL	BI-102L-40 340502 N. SEFCIKOVA Corequisite: Take the following BI-102-40.		\$0.00	\$0.00	\$0.00	\$0.00
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BI-103 GENERAL BIOLOGY; PLANTS & THE ECOSYSTEM, 4 CREDITS
An inquiry-based laboratory course focusing on plants and the ecosystem; including plant identification, population dynamics, productivity and energy flow. Activities include an integrated approach to understanding environmental issues and the impact of humans on the biosphere. The class uses student centered activities in a collaborative learning environment to enhance appreciation of the biological world.
Corequisites: BI-103L
Recommended Prerequisites: MTH-060 or MTH-098 or placement in MTH-065; and WRD-098 or placement in WR-121Z

ONL	BI-103-40 340503 K. OSTLUND Corequisite: Take the following BI-103L-40.		\$520.00	\$52.00	\$55.00	\$627.00
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BI-103L GENERAL BIOLOGY; PLANTS & THE ECOSYSTEM LAB, 0 CREDIT
Lab course for BI-103
Corequisites: BI-103

ONL	BI-103L-40 340504 K. OSTLUND Corequisite: Take the following BI-103-40.		\$0.00	\$0.00	\$0.00	\$0.00
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BI-112 GENERAL BIOLOGY FOR HEALTH SCIENCES, 4 CREDITS
A one-term preparatory course that introduces the Health Occupations student to the scientific method, molecular and cellular biology, principles of inheritance, homeostasis, natural selection, tissues, and organ systems. Topics and skills covered prepare students to enter BI-231 and BI-234.
Corequisites: BI-112L
Recommended Corequisite: CH-112
Recommended Prerequisites: MTH-060 or MTH-098 or placement in MTH-065, and WRD-098 or placement in WR-121Z

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	
ONL	BI-112-15 340505 S. KELSEY Corequisite: Take the following BI-112L-15.		\$520.00	\$52.00	\$55.00	\$627.00

BI-112L GENERAL BIOLOGY FOR HEALTH SCIENCES LAB, 0 CREDIT
Lab course for BI-112
Corequisites: BI-112

HAR	BI-112L-15 340507 W M. PLUMMER Corequisite: Take the following BI-112-15.		\$0.00	\$0.00	\$0.00	\$0.00
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BI-232 HUMAN ANATOMY & PHYSIOLOGY II, 4 CREDITS
Lab course covering structure and function of the muscular, cardiovascular, lymphatic, and respiratory systems. Animal organ dissection required.
Prerequisites: BI-231 with a C or better
Corequisites: BI-232L

OC HYB	BI-232-01 340509 T B. KOP Corequisite: Take the following BI-232L-01.		\$520.00	\$52.00	\$55.00	\$627.00
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BI-232L HUMAN ANATOMY & PHYSIOLOGY II LAB, 0 CREDIT
Lab course for BI-232
Corequisites: BI-232

OC HYB	BI-232L-01 340511 TH J. GALLEGOS Meets: 6/23-8/23. Corequisite: Take the following BI-232-01.		\$0.00	\$0.00	\$0.00	\$0.00
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BI-233 HUMAN ANATOMY & PHYSIOLOGY III, 4 CREDITS
Lab course covering neuroendocrine control, digestive, excretory and reproductive systems. Study of fluid, electrolyte and acid-base balance. Animal organ dissection required.
Prerequisites: BI-232 with a C or better
Corequisites: BI-233L

OC HYB	BI-233-20 340516 T B. KOP Corequisite: Take the following BI-233L-20.		\$520.00	\$52.00	\$55.00	\$627.00
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BI-233L HUMAN ANATOMY & PHYSIOLOGY III LAB, 0 CREDIT
Lab course for BI-233
Corequisites: BI-233

OC HYB	BI-233L-20 340521 TH J. GALLEGOS Corequisite: Take the following BI-233-20.		\$0.00	\$0.00	\$0.00	\$0.00
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BI-234 INTRODUCTORY MICROBIOLOGY, 4 CREDITS
An introductory microbiology lab course required for health science and science majors. Includes characteristics, physiology and growth requirements of microorganisms, interactions between humans and microorganisms, immunology, infection, and principles of microbial control. This course emphasizes critical thinking and analytical skills in a collaborative laboratory environment.
Prerequisites: BI-101, BI-112 or BI-221Z
Corequisites: BI-234L
Prerequisites: CH-104, CH-112, or CH-221Z and CH-227Z

ONL	BI-234-40 345181 A. KAPILA Corequisite: Take the following BI-234L-40.		\$520.00	\$52.00	\$55.00	\$627.00
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Other Coding Translations:
TBA: To be arranged: contact department first class
VAR: Variable credit class

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

Course No	Course Title, Credits	Section No	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	

BI-234L INTRODUCTORY MICROBIOLOGY LAB, 0 CREDIT
 Lab course for BI-234
Corequisites: BI-234

ONL	BI-234L-40	345182				
	A. KAPILA		\$0.00	\$0.00	\$0.00	\$0.00

Corequisite: Take the following BI-234-40.

Business Administration

BA-101Z INTRODUCTION TO BUSINESS, 4 CREDITS
 Presents an integrated view of both established and entrepreneurial businesses by studying their common characteristics and processes in a global context. Introduces theory and develops basic skills in the areas of accounting, finance, management, and marketing, with an emphasis on social responsibility and ethical practices. Explores how businesses can create value for themselves and society by addressing environmental and social challenges.

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

ONL	BA-101Z-01	340403				
	B. FORNEY		\$520.00	\$52.00	\$48.75	\$620.75
	Meets: 6/23-9/6. Online textbook included in section fees.					
ONL	BA-101Z-02	340404				
	S. RAHN		\$520.00	\$52.00	\$48.75	\$620.75
	Meets: 6/23-8/14. Online textbook included in section fees.					
REM	BA-101Z-03	340405 T			3-4:50 PM	
	S. RAHN		\$520.00	\$52.00	\$48.75	\$620.75
	Meets: 6/23-8/14. Online textbook included in section fees.					

BA-111 GENERAL ACCOUNTING I, 3 CREDITS
 Introduces the terminology and processes of full-cycle, modified cash and accrual basis bookkeeping for small service and merchandising businesses with inventory. Focus is on how to analyze and record financial transactions, reconcile accounts and trial balances, and prepare basic financial statements. Additional topics include cash management, bank reconciliations, accounting for sales and purchase discounts. Emphasizes procedure and practice.

Recommended Prerequisites: Placement in MTH-020

ONL	BA-111-01	340407				
	J. SAN-CLAIRE		\$390.00	\$39.00	\$5.00	\$434.00
	Meets: 6/23-8/14.					

BA-131 INTRODUCTION TO BUSINESS COMPUTING, 4 CREDITS
 Introductory course using Microsoft Word, Excel, Access, and PowerPoint applications to create business documents.
Required: Access to the following: personal computer or laptop with MS Windows Operating System (Windows 10 or 11), Office 365 OR MS Office 2021, internet access (including email), or access to the CCC Dye Academic Computer Lab for completion of coursework

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

ONL	BA-131-01	340409				
	B. FORNEY		\$520.00	\$52.00	\$130.00	\$702.00
	Meets: 6/23-9/6. Online textbook included in section fees.					
ONL	BA-131-02	340410				
	B. FORNEY		\$520.00	\$52.00	\$130.00	\$702.00
	Meets: 6/23-9/6. Online textbook included in section fees.					

BA-169Z DATA ANALYSIS USING MICROSOFT EXCEL, 4 CREDITS

Covers Microsoft Excel software skills necessary for evidence-based problem-solving, including workbook editing, formula creation, charting, and pivot tables. Emphasizes hands-on learning using Excel functions to perform data analysis to enhance decision-making.
Prerequisites: BA-131 or CS-120 or higher or placement into BA-169Z

ONL	BA-169Z-30	340370				
	D. HEINIG		\$520.00	\$52.00	\$73.43	\$645.43
	Meets: 6/23-8/14. Online textbook included in section fees.					

BA-205 BUSINESS COMMUNICATIONS WITH TECHNOLOGY, 4 CREDITS
 Students practice critical skills for successful communication in a business environment by employing a structured writing process, analyzing audience needs, and identifying and using appropriate communication channels and modalities. Students also work individually to produce a PowerPoint presentation with embedded narration and as team members to manage a comprehensive project and complete a business research paper.

Recommended Prerequisites: BA-131 and WR-121Z

ONL LCT	BA-205-01	345082				
	C. CHATTERTON		\$520.00	\$52.00	\$5.00	\$577.00
	Meets: 6/23-8/14.					

BA-208 EMPLOYEE AND LABOR RELATIONS, 4 CREDITS
 Provides a legal and historical overview of employee and labor relations in both union and non-union environments. Presents a realistic picture of collective bargaining and labor relations situations and highlights contemporary issues in employee relations, unions, bargaining units, and employee group representation.

ONL	BA-208-01	340411				
	M. MOISO		\$520.00	\$52.00	\$63.29	\$635.29
	Meets: 6/23-8/14. Online textbook included in section fees.					

BA-211Z PRINCIPLES OF FINANCIAL ACCOUNTING, 4 CREDITS
 Imparts an understanding of the purpose of accounting, common financial statement items, and the principles of internal controls. Focuses on recording the impact of economic events on account balances using U.S. Generally Accepted Accounting Principles, and the creation and analysis of financial statements to aid in external decision making.

Prerequisites: BA-101Z and BA-131
Recommended Prerequisites: BA-111, and MTH-050 or higher

ONL	BA-211Z-01	340412				
	J. SAN-CLAIRE		\$520.00	\$52.00	\$5.00	\$577.00
	Meets: 6/23-8/14.					

BA-213Z PRINCIPLES OF MANAGERIAL ACCOUNTING, 4 CREDITS
 Builds an understanding of the role of managerial accounting in a business, focusing on the development and use of information to evaluate production costs and operational performance in support of short- and long-term organizational decision-making.

Prerequisites: BA-211Z with a C or better

ONL	BA-213Z-01	340413				
	J. SAN-CLAIRE		\$520.00	\$52.00	\$5.00	\$577.00
	Meets: 6/23-8/14.					

BA-226Z INTRODUCTION TO BUSINESS LAW, 4 CREDITS

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

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.

OC HYB	BA-226Z-01	340415 T		10-11:50 AM		
	M. MOISO	\$520.00	\$52.00	\$58.43	\$630.43	
	Meets: 6/23-8/14. Online textbook included in section fees. Class meets on-campus, Tuesday, June 24th from 10:00-11:50am; additional work assigned and completed online.					

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 of how social media compliments marketing.

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

ONL LCT	BA-270-01	340416				
	C. CHATTERTON	\$520.00	\$52.00	\$5.00	\$577.00	
	Meets: 6/23-8/14.					

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 LCT	BA-280-01	340418				
	B. FORNEY	\$780.00	\$78.00	\$45.00	\$903.00V	
	Meets: 6/23-9/6. Required: Student Petition. Corequisite: Take the following CWE-281-06.					

BA-285 HUMAN RELATIONS IN BUSINESS, 4 CREDITS

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

ONL LCT	BA-285-01	340419				
	M. MOISO	\$520.00	\$52.00	\$48.75	\$620.75	
	Meets: 6/23-8/14. Online textbook included in section fees.					

Business Technology

BT-120 PERSONAL KEYBOARDING, 2 CREDITS

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

ONL LCT	BT-120-01	340420				
	S. SIMMONS	\$260.00	\$26.00	\$10.00	\$296.00	
	Meets: 6/23-8/14.					
ONL LCT	BT-120-02	340421				
	S. SIMMONS	\$260.00	\$26.00	\$10.00	\$296.00	
	Meets: 6/23-8/14.					

Campus Locations:

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Distance Education Notification:

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Other Coding Translations:

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

ESPAÑOL: Enseñado en español

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

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

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 LCT	BT-121-01	340422				
	S. SIMMONS	\$130.00	\$13.00	\$10.00	\$153.00	
	Meets: 6/23-8/14.					
ONL LCT	BT-121-02	340423				
	S. SIMMONS	\$130.00	\$13.00	\$10.00	\$153.00	
	Meets: 6/23-8/14.					

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	BT-122-01	340424				
	S. SIMMONS	\$260.00	\$26.00	\$10.00	\$296.00	
	Meets: 6/23-8/14.					
ONL LCT	BT-122-02	340425				
	S. SIMMONS	\$260.00	\$26.00	\$10.00	\$296.00	
	Meets: 6/23-8/14.					

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 LCT	BT-124-01	340426				
	S. SIMMONS	\$390.00	\$39.00	\$10.00	\$439.00	
	Meets: 6/23-9/6.					

BT-125 BUSINESS EDITING II, 3 CREDITS

This course continues the study of professional editing and writing in a business office. The continued and correct use of acceptable spelling, grammar, and formatting of business documents will be covered in-depth, with increased practice in writing and editing skills in the composition of letters, memos, emails, reports, and presentations. Functional business reports will be covered in relation to written reports and proposals, as well as customer service phone etiquette and the creation of professional presentations for the workplace.

Prerequisites: BT-124 with a C or better

ONL	BT-125-01	345083				
	S. SIMMONS	\$390.00	\$39.00	\$10.00	\$439.00	
	Meets: 6/23-9/6.					

Chemistry

CH-104 INTRODUCTORY CHEMISTRY, 5 CREDITS

A lab transfer course for students in nursing, allied health fields and liberal arts. Topics include: observation, measurement, composition, stoichiometry, atomic structure, periodic table, bonding and nomenclature.

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	Total
Corequisites: CH-104L and CH-104S							Lab course for CH-106							
Prerequisites: MTH-065 or MTH-098 or placement in MTH-095; and WRD-090 or placement in WRD-098							Corequisites: CH-106 and CH-106S							
ONL	CH-104-40	340522					oc	CH-106L-40	340537	TBA				
	G. BURGESS		\$650.00	\$65.00	\$50.00	\$765.00		G. BURGESS		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take the following CH-104L-40, CH-104S-40.							Open lab. Students must spend 3 hours per week in chem lab. Lab hours: Tuesdays 12-5pm. Corequisite: Take the following CH-106-40, CH-106S-40.						
CH-104L	INTRODUCTORY CHEMISTRY LAB, 0 CREDIT						CH-106S	INTRODUCTORY CHEMISTRY SEMINAR, 0 CREDIT						
Lab course for CH-104							Seminar course for CH-106							
Corequisites: CH-104 and CH-104S							Corequisites: CH-106 and CH-106L							
oc	CH-104L-40	340527	TBA				oc	CH-106S-40	340539	T			11-11:50 AM	
	G. BURGESS		\$0.00	\$0.00	\$0.00	\$0.00		G. BURGESS		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Open lab. Students must spend 3 hours per week in chem lab. Lab hours: Tuesdays 12-5pm. Corequisite: Take the following CH-104-40, CH-104S-40.							Corequisite: Take the following CH-106-40, CH-106L-40.						
CH-104S	INTRODUCTORY CHEMISTRY SEMINAR, 0 CREDIT						CH-112	CHEMISTRY FOR HEALTH SCIENCES, 4 CREDITS						
Seminar course for CH-104							One-term preparatory chemistry course for students who want to take BI-231 and/or BI-234. Includes measurement; atomic structure; periodic table; bonding; nomenclature; heat; molecular and ionic interactions in solids; liquids and solutions; chemical reactions including acid-base; organic chemistry; and biochemistry.							
Corequisites: CH-104 and CH-104L							Corequisites: CH-112L							
oc	CH-104S-40	340528	T			11-11:50 AM	Prerequisites:	MTH-065 or MTH-098 with a C or better or placement in MTH-095						
	G. BURGESS		\$0.00	\$0.00	\$0.00	\$0.00	Prerequisites:	WRD-090 or placement in WRD-098						
	Corequisite: Take the following CH-104-40, CH-104L-40.						Recommended Corequisite:	BI-112						
CH-105	INTRODUCTORY CHEMISTRY, 5 CREDITS						ONL	CH-112-15	340541					
A lab course discussing heat; molecular and ionic interactions in solids, liquids, gases, and solutions; chemical reactions including acid-base, electron transfer, and equilibrium.								S. MCDONALD		\$520.00	\$52.00	\$50.00	\$622.00	
Prerequisites: CH-104								Corequisite: Take the following CH-112L-15.						
Corequisites: CH-105L and CH-105S							CH-112L	CHEMISTRY FOR HEALTH SCIENCES LAB, 0 CREDIT						
ONL	CH-105-40	340529					Lab course for CH-112							
	G. BURGESS		\$650.00	\$65.00	\$50.00	\$765.00	Corequisites: CH-112							
	Corequisite: Take the following CH-105L-40, CH-105S-40.						HAR	CH-112L-15	340546	W			1-3:50 PM	
CH-105L	INTRODUCTORY CHEMISTRY LAB, 0 CREDIT							S. MCDONALD		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Lab course for CH-105								Corequisite: Take the following CH-112-15.						
Corequisites: CH-105 and CH-105S							CH-223	GENERAL CHEMISTRY, 5 CREDITS						
oc	CH-105L-40	340534	TBA				A lab course discussing states of matter, solutions, acids and bases, electrochemistry, nuclear chemistry, and spectroscopy. Topics involving organic chemistry and biochemistry are introduced.							
	G. BURGESS		\$0.00	\$0.00	\$0.00	\$0.00	Prerequisites: CH-222 with a C or better							
	Open lab. Students must spend 3 hours per week in chem lab. Lab hours: Tuesdays 12-5pm. Corequisite: Take the following CH-105-40, CH-105S-40.						Corequisites: CH-223L and CH-223S							
CH-105S	INTRODUCTORY CHEMISTRY SEMINAR, 0 CREDIT						ONL	CH-223-01	340548					
Seminar course for CH-105								J. DU BOULAY		\$650.00	\$65.00	\$50.00	\$765.00	
Corequisites: CH-105 and CH-105L								Corequisite: Take the following CH-223L-01, CH-223S-01.						
oc	CH-105S-40	340535	T			11-11:50 AM	CH-223L	GENERAL CHEMISTRY LAB, 0 CREDIT						
	G. BURGESS		\$0.00	\$0.00	\$0.00	\$0.00	Lab course for CH-223							
	Corequisite: Take the following CH-105-40, CH-105L-40.						Corequisites: CH-223 and CH-223S							
CH-106	INTRODUCTORY CHEMISTRY, 5 CREDITS						oc	CH-223L-01	340549	TH			10-12:50 PM	
A lab course discussing organic and biochemistry.								J. DU BOULAY		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Prerequisites: CH-105								Corequisite: Take the following CH-223-01, CH-223S-01.						
Corequisites: CH-106L and CH-106S							CH-223SZ	GENERAL CHEMISTRY III SEMINAR, 0 CREDIT						
ONL	CH-106-40	340536					Seminar course for CH-223Z							
	G. BURGESS		\$650.00	\$65.00	\$50.00	\$765.00	Corequisites: CH-223Z and CH-229Z							
	Corequisite: Take the following CH-106L-40, CH-106S-40.													
CH-106L	INTRODUCTORY CHEMISTRY LAB, 0 CREDIT													
Lab course for CH-106														

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	Instructor		Tuition	Fee	Crs. Fee			Instructor		Tuition	Fee	Crs. Fee	
OC	CH-223S-01 340551 TH J. DU BOULAY Corequisite: Take the following CH-223-01, CH-223L-01.		\$0.00	\$0.00	\$0.00	\$0.00	ONL NCT	COMM-280-01 340367 K. HUGHES Meets: 6/23-8/14. Required: Student Petition.		\$780.00	\$78.00	\$45.00	\$903.00V

Communication Studies

COMM-100ESZ INTRODUCCIÓN A LA COMUNICACIÓN, 4 CREDITS

COMM-100ESZ es un curso de encuesta que ofrece una visión general de la disciplina de la comunicación que enfatiza el desarrollo de las mejores prácticas de comunicación en diferentes contextos.

OC NCT ESPAÑOL	COMM-100ESZ-01	340357 TTH	6-8:45 PM
J. CORTES	\$0.00	\$0.00	\$0.00
Requerido: petición del estudiante.			

COMM-100Z INTRODUCTION TO COMMUNICATION, 4 CREDITS

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

OC NCT	COMM-100Z-01	345174 TTH	1-3:45 PM
J. HULT	\$520.00	\$52.00	\$0.00
\$572.00			

COMM-111Z PUBLIC SPEAKING, 4 CREDITS

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

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

Recommended Prerequisite or Corequisite: FYE-101

REM NCT	COMM-111Z-01	340360 MW	9-11:45 AM
J. HULT	\$520.00	\$52.00	\$20.00
\$592.00			
Meets: 6/23-8/14.			

REM NCT	COMM-111Z-03	340362 MW	6-8:45 PM
A. MOSEY	\$520.00	\$52.00	\$20.00
\$592.00			
Meets: 6/23-8/14.			

HAR NCT	COMM-111Z-15	340365 TTH	9-11:45 AM
J. HULT	\$520.00	\$52.00	\$20.00
\$592.00			
Meets: 6/23-8/14.			

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

HAR NCT	COMM-218Z-15	340366 TTH	9-11:45 AM
M. WILLIAMS	\$520.00	\$52.00	\$0.00
\$572.00			
Meets: 6/23-8/14.			

COMM-280 SPEECH/CWE, 2-6 CREDITS

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

Corequisites: CWE-281

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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	CS-120-30	340368
M. SORRENTINO	\$520.00	\$52.00
\$20.00		
\$592.00		
Meets: 6/23-8/14.		

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

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

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

ONL	CS-125H-30	340369
M. SORRENTINO	\$520.00	\$52.00
\$20.00		
\$592.00		
Meets: 6/23-8/14.		

CS-160 COMPUTER SCIENCE ORIENTATION, 4 CREDITS

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

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

ONL	CS-160-30	340371
R. ALBERS	\$520.00	\$52.00
\$20.00		
\$592.00		
Meets: 6/23-8/14.		

CS-170 PYTHON PROGRAMMING, 4 CREDITS

This is an extensive look at the Python programming language. It covers variables, I/O, selection and repetition structures, functions, objects, classes, and exception handling.

Prerequisites: CS-162 or Student Petition

ONL	CS-170-30	345168
R. ALBERS	\$520.00	\$52.00
\$0.00		
\$572.00		
Meets: 6/23-8/14.		

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

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Total
	Instructor						Crs. Fee	
ONL LCT	CS-280-01 340372 J. MILLER				\$780.00	\$78.00	\$45.00	\$903.00V
Meets: 6/23-9/6. 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.

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Total
	Instructor						Crs. Fee	
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	CWE-281-01 340321 D. GLASCOCK				\$0.00	\$0.00	\$0.00	\$0.00
Required: Student Petition.								
ONL LCT	CWE-281-03 340322 M. LAFORCE				\$0.00	\$0.00	\$0.00	\$0.00
Restricted to Water & Environmental Technology students only.								
ONL LCT	CWE-281-04 340323 M. LAFORCE				\$0.00	\$0.00	\$0.00	\$0.00
Restricted to Water & Environmental Technology students only.								
ONL LCT	CWE-281-05 340324 J. MILLER				\$0.00	\$0.00	\$0.00	\$0.00
Required: Student Petition. Restricted to Computer Science students only.								
ONL LCT	CWE-281-06 340325 J. STAPLETON				\$0.00	\$0.00	\$0.00	\$0.00

Criminal Justice

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

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Total
	Instructor						Crs. Fee	
CJA-101	CRIMINOLOGY, 4 CREDITS							
Examines the social problem of crime, including the process of making and breaking laws as well as society's reaction to the phenomenon. Provides a multidisciplinary study of the causes of crime, including its distribution across social strata and demographics. Focuses on theories of criminal behavior and specific types of crime.								
ONL LCT	CJA-101-01 340314 J. LOVELESS				\$520.00	\$52.00	\$0.00	\$572.00
Meets: 6/24-8/15.								

Digital Media Communications

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	Instructor						Crs. Fee	
DMC-280	DIGITAL MEDIA COMMUNICATIONS/CWE, 3-6 CREDITS							
Cooperative work experience. Provides students with on-the-job work experience in the field of media studies. Required: Student Petition. Corequisites: CWE-281								
ONL LCT	DMC-280-01 340554 T. WASSON				\$780.00	\$78.00	\$45.00	\$903.00V
Meets: 6/24-8/15. Required: Student Petition.								

Economics

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Total
	Instructor						Crs. Fee	
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	EC-201Z-01 340428 M. PARTAPURWALA				\$520.00	\$52.00	\$0.00	\$572.00
Meets online: 6/23-8/14.								

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Total
	Instructor						Crs. Fee	
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								
ONL NCT	EC-202Z-01 340429 M. PARTAPURWALA				\$520.00	\$52.00	\$0.00	\$572.00
Meets online: 6/23-8/14.								

Education

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Total
	Instructor						Crs. Fee	
ECE-121	OBSERVATION AND GUIDANCE I IN ECE SETTINGS, 4 CREDITS							
Course is designed to help students explore in depth observation and recording techniques of children's development and learning and to examine various child guidance techniques for children from birth - 3rd grade. Students will be provided with strategies to assist them in providing positive guidance to children in a variety of settings and situations.								
ONL	ECE-121-01 345085 S. MYERS				\$520.00	\$52.00	\$0.00	\$572.00
Meets: 6/23-7/25. This is an accelerated, five-week section.								

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Total
	Instructor						Crs. Fee	
ECE-154	LANGUAGE & LITERACY DEVELOPMENT IN YOUNG CHILDREN, 4 CREDITS							
Focuses on language and literacy development of children from birth-age 8. The research foundation and components of language and literacy development will be examined. Criteria for selecting quality children's literature will be explored. Practical strategies for promoting optimal development will be emphasized. Students will explore how to set create language and literacy-rich environments and experiences.								
ONL	ECE-154-01 345086 B. KING				\$520.00	\$52.00	\$0.00	\$572.00
Meets: 6/23-7/25. This is an accelerated five-week section.								

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Total
	Instructor						Crs. Fee	
ECE-154ES	DESARROLLO DEL LENGUAJE Y LA ALFABETIZACIÓN, 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 centra en el desarrollo del lenguaje y la alfabetización de los niños desde el nacimiento hasta tercer grado. Se examinarán las bases de la investigación y los componentes del desarrollo del lenguaje y la alfabetización. Se explorarán los criterios para seleccionar literatura infantil de calidad. Se enfatizarán estrategias prácticas para promover un desarrollo óptimo.

Prerequisites: FYE-101ES

REM ESPAÑOL	ECE-154ES-01 340433 M				6-7:50 PM	
	L. JAMES	\$520.00	\$52.00	\$0.00		\$572.00
	La clase se reúne seis Lunes por Zoom (6/23, 7/7, 7/21, 8/4, 8/18, 8/25) de 6:00PM a 7:50PM.					

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	ECE-221ES-01 345088 T				6-7:50 PM	
	Y. SANCHEZ	\$520.00	\$52.00	\$0.00		\$572.00
	La clase se reúne seis Martes por Zoom (6/24, 7/8, 7/22, 8/5, 8/19, 9/2) de 6:00PM a 7:50PM.					

ECE-240ES AMBIENTES Y PLANIFICACIÓN CURRICULAR, 4 CREDITS

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

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

REM ESPAÑOL	ECE-240ES-01 340438 W				6-7:50 PM	
	D. TORRADO	\$520.00	\$52.00	\$0.00		\$572.00
	La clase se reúne seis Miércoles por Zoom (6/25, 7/9, 7/23, 8/6, 8/20, 9/3) de 6:00PM a 7:50 PM.					

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	ECE-246ES-01 340439 S				9-10:50 AM	
	B. MARRON	\$520.00	\$52.00	\$0.00		\$572.00
	La clase se reúne cinco Sabados por Zoom (6/28, 7/12, 7/26, 8/9, 8/22) de 9:00 AM a 10:50 AM.					

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

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

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

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

REM ESPAÑOL	ECE-246ES-01PP	340441 TH			6-7:50 PM	
	B. MARRON	\$520.00	\$52.00	\$0.00		\$572.00
	La clase se reúne seis Jueves por Zoom (6/26, 7/10, 7/24, 8/7, 8/21, 9/7) de 6:00 PM a 7:50 PM.					

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	ECE-280-01 340444					
	D. GLASCOCK	\$390.00	\$39.00	\$45.00		\$474.00
	Required: Student Petition. Meets: 6/23-8/14. Corequisite: Take the following CWE-281-01.					

ECE-291ES PRACTICUM II, 4 CREDITS

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

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

REM ESPAÑOL	ECE-291ES-01 340445 S				11-12:50 PM	
	D. TORRADO	\$520.00	\$52.00	\$0.00		\$572.00
	Requerido: petición del estudiante. Meets: 6/23-8/16. Remote meetings occur on 6/28, 7/12, 7/26, 8/9 & 8/16.					

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	ED-269-01 340448					
	T. GOWDY	\$390.00	\$39.00	\$47.80		\$476.80
	Meets: 6/23-8/14. 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 will occur with industry and the manufacturing and cooperative work departments. Required: Student Petition.

Corequisites: CWE-281

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	SM-280-01 340610 C. CONNORS		\$780.00	\$78.00	\$255.00	\$1,113.00V
Required: Student Petition. Corequisite: Take the following CWE-281-06.						

Emergency Medical Technology

EMT-102 EMERGENCY MEDICAL TECHNICIAN PART II, 6 CREDITS

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

Required: Completion and documentation of all OHA Health Profession Student Clinical Training Administrative Requirements

Prerequisites: EMT-101 with a C or better

HAR HYB	EMT-102-01 345038 MWF				6-9:20 PM	
	T. SAWZAK		\$780.00	\$78.00	\$400.00	\$1,258.00
Required: Student Petition.						

EMT-105 INTRODUCTION TO EMERGENCY MEDICAL SERVICES, 3 CREDITS

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

ONL	EMT-105-01 340326					
	T. SAWZAK		\$390.00	\$39.00	\$0.00	\$429.00
ONL	EMT-105-02 345039					
	T. SAWZAK		\$390.00	\$39.00	\$0.00	\$429.00

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	ESOL-012-06 340377 MW				6-8:50 PM	
	D. VERMILLION		\$0.00	\$0.00	\$60.00	\$60.00
Meets: 6/24-8/15. Required: Student Petition.						
HAR LCT	ESOL-012-07 340378 MW				6-8:50 PM	
	J. STENSETH		\$0.00	\$0.00	\$60.00	\$60.00
Meets: 6/24-8/15. Required: Student Petition.						
HAR LCT	ESOL-012-08 340379 MW				6-8:50 PM	
	K. HOLLOWAY		\$0.00	\$0.00	\$60.00	\$60.00
Required: Student Petition. Meets: 6/24-8/15.						

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ESPAÑOL: Enseñado en español

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	Instructor		Tuition	Fee	Crs. Fee	
	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	ESOL-013-01 340380 MW				9-10:50 AM	
	D. VERMILLION		\$0.00	\$0.00	\$30.00	\$30.00
Required: Student Petition. Meets 6/24-8/15.						

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	ESOL-014-01 340381 MW				11:30 -1:20 PM	
	J. RUEDA		\$0.00	\$0.00	\$35.00	\$35.00
Meets: 6/24-8/15. 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	ESOL-015-06 340382 TTH				6-8:50 PM	
	J. RUEDA		\$0.00	\$0.00	\$65.00	\$65.00
Required: Student Petition. Meets: 6/24-8/15.						
HAR NCT	ESOL-015-07 340383 TTH				6-8:50 PM	
	K. HOLLOWAY		\$0.00	\$0.00	\$65.00	\$65.00
Required: Student Petition. Meets: 6/24-8/15.						

ESOL-020 UPPER BEGINNING GRAMMAR, 0 CREDIT

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

OC NCT	ESOL-020-01 340384 MW				11:30 -1:20 PM	
	S. CAISSE		\$0.00	\$0.00	\$35.00	\$35.00
Meets: 6/24-8/15. Required: Student Petition.						
HAR NCT	ESOL-020-06 340385 TTH				7-8:50 PM	
	L. ROWE		\$0.00	\$0.00	\$35.00	\$35.00
Meets: 6/24-8/15. Required: Student Petition.						

ESOL-022 UPPER BEGINNING CONVERSATION, 0 CREDIT

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

HAR LCT	ESOL-022-06 345178 MW				7-8:50 PM	
	K. STECKMEST		\$0.00	\$0.00	\$30.00	\$30.00
Meets: 6/23-8/14. Required: Student Petition.						

ESOL-030 INTERMEDIATE GRAMMAR A, 0 CREDIT

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

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

HAR LCT	ESOL-030-06	345037	TTH		7-8:50 PM	
	J. STENSETH	\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.					

ESOL-031 INTERMEDIATE GRAMMAR B, 0 CREDIT

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

OC LCT	ESOL-031-01	340386	MW		11:30 -1:20 PM	
	D. VERMILLION	\$0.00	\$0.00	\$30.00	\$30.00	
	Meets: 6/24-8/15. Required: Student Petition.					

HAR LCT	ESOL-031-06	340387	TTH		7-8:50 PM	
	D. VERMILLION	\$0.00	\$0.00	\$30.00	\$30.00	
	Meets: 6/24-8/15. Required: Student Petition.					

ESOL-033 INTERMEDIATE CONVERSATION 2, 0 CREDIT

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

OC LCT	ESOL-033-01	340389	MW		9-10:50 AM	
	J. RUEDA	\$0.00	\$0.00	\$30.00	\$30.00	
	Meets: 6/24-8/15. Required: Student Petition.					

HAR LCT	ESOL-033-06	345326	MW		7-8:50 PM	
	TBA	\$0.00	\$0.00	\$30.00	\$30.00	
	Meets: 6/23-8/14. Required: Student Petition.					

ESOL-043 UPPER INTERMEDIATE CONVERSATION 2, 0 CREDIT

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

OC LCT	ESOL-043-01	340392	MW		9-10:50 AM	
	S. CAISSE	\$0.00	\$0.00	\$30.00	\$30.00	
	Meets: 6/24-8/15. Required: Student Petition.					

HAR LCT	ESOL-043-06	340393	MW		7-8:50 PM	
	S. CAISSE	\$0.00	\$0.00	\$30.00	\$30.00	
	Meets: 6/24-8/15. Required: Student Petition.					

ESOL-053 ADVANCED COMMUNICATION SKILLS 2, 0 CREDIT

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

OC LCT	ESOL-053-01	340396	MW		9-10:50 AM	
	TBA	\$0.00	\$0.00	\$30.00	\$30.00	
	Meets: 6/24-8/15. Required: Student Petition.					

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Instructor	Tuition	Fee	Crns. Fee			

HAR LCT	ESOL-053-06	340397	MW		7-8:50 PM	
	TBA	\$0.00	\$0.00	\$30.00	\$30.00	
	Meets: 6/24-8/15. Required: Student Petition.					

ESOL-055 ADVANCED GRAMMAR C, 0 CREDIT

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

OC LCT	ESOL-055-01	345035	MW		11:30 -1:20 PM	
	K. LONG	\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.					

HAR LCT	ESOL-055-06	345036	TTH		7-8:50 PM	
	S. CAISSE	\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.					

ESOL-082 ASSESS/EVALUATE NEW STUDENTS, 0 CREDIT

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

ONL NCT	ESOL-082-01	340398				
	L. JOYCE	\$0.00	\$0.00	\$0.00	\$0.00	
	Meets: 6/24-8/15. Required: Student Petition.					

ONL NCT	ESOL-082-06	340399				
	L. JOYCE	\$0.00	\$0.00	\$0.00	\$0.00	
	Meets: 6/24-8/15. Required: Student Petition.					

ESOL-083 EDUCATIONAL PLANNING FOR RETURNING STUDENTS, 0 CREDIT

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

ONL NCT	ESOL-083-01	340400				
	L. JOYCE	\$0.00	\$0.00	\$0.00	\$0.00	
	Meets: 6/24-8/15. Required: Student Petition.					

ONL NCT	ESOL-083-06	340401				
	L. JOYCE	\$0.00	\$0.00	\$0.00	\$0.00	
	Meets: 6/24-8/15. Required: Student Petition.					

English Literature

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

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
ONL	ENG-104Z-01 340451 C. ZIMMERLY-BECK					\$520.00	\$52.00	\$0.00		\$572.00

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	ENG-106Z-01 340452 M. SCHUMACHER					\$520.00	\$52.00	\$0.00		\$572.00
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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	ENG-222-01 340453 T. DONNELLY					\$520.00	\$52.00	\$0.00		\$572.00
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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	ES-101-01 345167 L. MARTINEZ					\$520.00	\$52.00	\$0.00		\$572.00
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Family Studies

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

Se enfoca en la exploración del desarrollo y factores que influyen áreas relacionadas con lo físico, cognitivo y socio-emocional en los niños desde la etapa prenatal hasta los tres años de edad. Se examinarán teorías relacionadas con estas etapas, así como la influencia del lenguaje y la cultura en el desarrollo y crianza.

REM ESPAÑOL	HDF-225ES-01 340477 W	6-7:50 PM			
	Y. SANCHEZ	\$520.00	\$52.00	\$0.00	\$572.00

La clase se reúne seis Miércoles por Zoom (6/25, 7/9, 7/23, 8/6, 8/20, 9/3) de 6:00 PM a 7:50 PM.

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Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
HDF-247ES	DESARROLLO Y CRECIMIENTO EN LA NIÑEZ: PREESCOLAR HASTA LA ADOLESCENCIA, 4 CREDITS									

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

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

REM ESPAÑOL	HDF-247ES-01 340482 M	6-7:50 PM			
	L. JAMES	\$520.00	\$52.00	\$0.00	\$572.00

La clase se reúne seis Lunes por Zoom (6/24, 7/9, 7/22, 8/5, 8/19, y 8/26 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	HDF-260-01 340483 C. BAKER					\$390.00	\$39.00	\$0.00		\$429.00
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Food & Nutrition

FN-110 PERSONAL NUTRITION, 3 CREDITS

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

ONL	FN-110-01 340327 T. SCOLLARD					\$390.00	\$39.00	\$82.20		\$511.20
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Online textbook included in section fees.

FN-225 NUTRITION, 4 CREDITS

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

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

ONL	FN-225-01 340328 T. SCOLLARD					\$520.00	\$52.00	\$121.88		\$693.88
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Online textbook included in section fees.

ONL	FN-225-02 340329 J. PAVLINAC					\$520.00	\$52.00	\$121.88		\$693.88
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Online textbook included in section fees.

General Development Education (GED)

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	

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 ESPAÑOL	GED-011-01	340466 MW			5:30 -7:50 PM	
	A. ARISTIZABAL	\$0.00	\$0.00	\$50.00	\$50.00	
	Requerido: petición del estudiante. Meets: 6/24-8/15.					
HAR HYB ESPAÑOL	GED-011-02	340470 TTH			6-8:50 PM	
	A. ARISTIZABAL	\$0.00	\$0.00	\$50.00	\$50.00	
	Requerido: petición del estudiante. Meets: 6/24-8/15.					

GED-015 GED PREPARATION, 0 CREDIT

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

OC LCT	GED-015-17	340472 MW			5:30 -7:50 PM	
	TBA	\$0.00	\$0.00	\$50.00	\$50.00	
	Meets: 6/24-8/15. Required: Student Petition.					
ONL LCT	GED-015-68	340474				
	TBA	\$0.00	\$0.00	\$55.00	\$55.00	
	Meets: 6/24-8/15. Required: Student Petition.					
OC LCT	GED-015-80	340475 MTWTH			10-11:50 AM	
	D. GREEN	\$0.00	\$0.00	\$55.00	\$55.00	
	Meets: 6/24-8/15. Required: Student Petition.					

Geographic Information Systems

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

GIS-201 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS, 3 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.

REM	GIS-201-01	340561 TTH			1-2:50 PM	
	TBA	\$390.00	\$39.00	\$40.00	\$469.00	
	Meets: 6/24-8/15.					

Geography

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GEO-110 CULTURAL & HUMAN GEOGRAPHY, 4 CREDITS

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

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

ONL NCT	GEO-110-01	340476				
	C. FELDMAN	\$520.00	\$52.00	\$0.00	\$572.00	
	Meets online: 6/23-8/14.					

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	G-145-01	340555 T			9-11:50 AM	
	B. WALKER	\$520.00	\$52.00	\$60.00	\$632.00	
	Meets: 6/23-8/14. This section has two mandatory Saturday full-day field trips. Contact instructor for exact trip dates. Corequisite: Take the following G-145L-01.					

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

Lab course for G-145

Corequisites: G-145

OC	G-145L-01	340556 TH			9-11:50 AM	
	B. WALKER	\$0.00	\$0.00	\$0.00	\$0.00	
	Meets: 6/23-8/14. This section has two mandatory Saturday full-day field trips. Contact instructor for exact trip dates. Corequisite: Take the following G-145-01.					

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	GRN-184-01	340319				
	Y. SMITH	\$390.00	\$39.00	\$0.00	\$429.00	
	Meets: 6/23-8/14.					

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

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

Prerequisite or Corequisite: HS-170

Corequisites: HS-270

OC	GRN-280-01	340320				
	J. LOVELESS	\$780.00	\$78.00	\$45.00	\$903.00V	
	Required: Student Petition.					

Health

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

HE-204 NUTRITION & WEIGHT CONTROL, 3 CREDITS
 Methods of maintaining or improving nutrition by considering diets and dieting, obesity, types of exercise, physical testing, cardio-vascular fitness and nutritional concepts.

ONL	HE-204-01 340562	K. STEEN		\$390.00	\$39.00	\$0.00	\$429.00
	Meets: 6/23-8/14.						

HE-250 PERSONAL HEALTH, 3 CREDITS
 This course is designed to help students gain an overall understanding of information basic to the field of health, to help them critically evaluate health information, and to promote positive attitudes, values, and behaviors in regard to personal health.

ONL	HE-250-01 340564	K. STEEN		\$390.00	\$39.00	\$0.00	\$429.00
	Meets: 6/23-8/14.						
ONL	HE-250-02 340567	J. RHODEN		\$390.00	\$39.00	\$0.00	\$429.00
	Meets: 6/23-8/14.						

HE-252 FIRST AID/CPR/AED, 3 CREDITS
 This course supports the American Red Cross program for First Aid/CPR/AED and will teach participants the knowledge and skills needed to give immediate care to an injured or ill person and to decide whether advanced medical care is needed. Successful completion of the course leads to a Red Cross First Aid/CPR/AED certification for the lay responder.

ONL LCT	HE-252-01 340568	K. ARIZO		\$390.00	\$39.00	\$35.00	\$464.00
	Meets: 6/23-8/14.						

Health Professions

HP-100 HEALTHCARE PROVIDER BLS/CPR, FIRST AID/BLOODBORNE PATHOGENS, 1 CREDIT
 Introduces CPR, first aid, and bloodborne pathogens to individuals working in healthcare environments, home, and community settings. Covers skills to perform CPR and operate an Automatic External Defibrillator (AED) for adults/children/infants. Includes citizen-level first aid for providing initial care to persons injured or stricken by sudden illness where help is not immediately available. Covers how to minimize communicable disease transmission while providing emergency care.

Recommended: Computer access with internet capabilities
Recommended Prerequisites: WRD-098

HAR HYB	HP-100-01 344844 TBA	S. COOPER		\$130.00	\$13.00	\$15.00	\$158.00
	This section includes additional costs for the online courses: Bloodborne Pathogens Online course \$22 Healthcare Provider CPR Online course \$36 First Aid online course \$16 Total cost for completing the online portion of the course is \$74.						

HP-110 MEDICAL TERMINOLOGY, 4 CREDITS

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HYB: In-person plus online work

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		Instructor		Tuition	Fee	Crs. Fee

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

ONL	HP-110-01 344845	T. BOYD		\$520.00	\$52.00	\$147.50	\$719.50
	Online textbook included in section fees.						
ONL	HP-110-02 344847	W. HARTJE		\$520.00	\$52.00	\$147.50	\$719.50
	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

ONL NCT	HST-102-01 340506	P. MCFARLAND		\$520.00	\$52.00	\$0.00	\$572.00
	Meets online: 6/23-8/14.						

Horticulture/Arboriculture/Landscape/Organic Farming

For more information call 503-594-3292 or email 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	HOR-146-01 340569 M	T. LORDY		\$390.00	\$39.00	\$50.00	\$479.00
	Meets: Mondays 6/23-8/25. 1-5:20 PM						

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	HOR-211-01 340570 T	M. MELCO		\$130.00	\$13.00	\$40.00	\$183.00
	Meets: Tuesdays 7/1-7/29. 9-10:50 AM						

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	HOR-280-01 340571	C. KONIECZKA		\$390.00	\$39.00	\$45.00	\$474.00
	Meets: 6/23-8/27. Required: Student Petition. Contact: chrisk@clackamas.edu Corequisite: Take the following CWE-281-06.						

HOR-281 HORTICULTURE/CWE, 6 CREDITS

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

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	HOR-281-01	340574											
	C. KONIECZKA	\$780.00	\$78.00	\$45.00	\$903.00								
	Meets: 6/23-8/27. Required: Student Petition. Contact: chrisk@clackamas.edu Corequisite: Take the following CWE-281-06.												

HOR-282 HORTICULTURE/CWE, 3 CREDITS

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

Corequisites: CWE-281

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

oc	HOR-282-01	340577											
	C. KONIECZKA	\$390.00	\$39.00	\$45.00	\$474.00								
	Meets: 6/23-8/27. Required: Student Petition. Contact: chrisk@clackamas.edu Corequisite: Take the following CWE-281-06.												

HOR-284 ORGANIC FARMING PRACTICUM/SUMMER, 3 CREDITS

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	HOR-284-01	340580 W		12-3:00 PM									
		MW		7:30 -11:30 AM									
	C. KONIECZKA	\$390.00	\$39.00	\$50.00	\$479.00								
	Meets: Mondays and Wednesdays 6/23-8/27.												

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	HOR-285-01	340582											
	C. KONIECZKA	\$390.00	\$39.00	\$45.00	\$474.00								
	D. ROSTAD												
	Meets: 6/23-8/27. Required: Student Petition. Contact: chrisk@clackamas.edu Corequisite: Take the following CWE-281-06.												

Human Services

HS-103 ETHICS FOR HUMAN SERVICE WORKERS, 2 CREDITS

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

ONL LCT	HS-103-01	340484											
	M. MANEWAL	\$260.00	\$26.00	\$0.00	\$286.00								
	Meets: 6/23-8/14.												

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

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

ONL LCT	HS-104-01	340486											
	M. MANEWAL	\$260.00	\$26.00	\$0.00	\$286.00								
	Meets: 6/23-8/14.												

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

REM	HS-210-01	340487 M		12-1:50 PM									
	T. BOYLE-	\$390.00	\$39.00	\$0.00	\$429.00								
	GALESTIANTZ												
	This class meets on four Mondays via Zoom (6/30, 7/14, 7/28, 8/11) from 12:00 PM to 1:50 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	HS-211-01	340488											
	Y. SMITH	\$130.00	\$13.00	\$0.00	\$143.00								
	Meets: 6/23-8/14.												

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

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
	Instructor		Tuition	Fee	Crs. Fee	
REM	HS-270-01 340491 F C. BAKER This class meets on six Fridays via Zoom (6/27, 7/11, 7/25, 8/8, 8/22, 9/5) from 12:00 PM to 1:50 PM.		\$260.00	\$26.00	\$0.00	\$286.00
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					

OC LCT	HS-280-01 340492 J. LOVELESS Required: Student Petition.		\$780.00	\$78.00	\$45.00	\$903.00V
HS-281	HUMAN SERVICES GENERALIST II: CWE/PRACTICUM, 2-6 CREDITS (VAR) Cooperative work experience level II. Supervised experience in human services including but not limited to: social service; early childhood care; criminal/juvenile justice; gerontology; and other related occupations. May be repeated for up to 12 credits. Required: Student Petition. Prerequisites: HS-170 Corequisites: HS-270					
OC LCT	HS-281-01 340494 J. LOVELESS Required: Student Petition.		\$780.00	\$78.00	\$45.00	\$903.00V

HS-282	HUMAN SERVICES GENERALIST III: CWE/PRACTICUM, 2-6 CREDITS (VAR) Cooperative work experience level III. Supervised experience in human services including but not limited to: social service; early childhood care; criminal/juvenile justice; gerontology, and other related occupations. May be repeated for up to 12 credits. Required: Student Petition. Corequisites: CWE-281 Prerequisites: HS-170. HS-280 or HS-281					
OC LCT	HS-282-01 340498 J. LOVELESS Required: Student Petition.		\$780.00	\$78.00	\$45.00	\$903.00V

Humanities

HUM-160	FAITH & REASON, 4 CREDITS An introduction of how personal concepts of faith & reason and institutions of science & religion shape personal intellectual landscapes. Examines classical philosophy, sacred texts, worldviews, modern fiction, poetry, theology, cosmology, and evolutionary biology. Recommended Prerequisites: WRD-098 or placement in WR-121Z					
ONL	HUM-160-01 340508 J. SHELTON Meets online: 6/23-8/14.		\$520.00	\$52.00	\$0.00	\$572.00

Journalism

J-280	JOURNALISM/CWE, 2-6 CREDITS Cooperative work experience. Provides the student with on-the-job experience and training related to journalism. Required: Student Petition. Corequisites: CWE-281					
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	Instructor		Tuition	Fee	Crs. Fee	
ONL LCT	J-280-01 340373 M. JONES Meets: 6/24-8/15. Required: Student Petition.		\$780.00	\$78.00	\$45.00	\$903.00V
J-280A	PUBLIC RELATIONS/CWE, 2-6 CREDITS Cooperative work experience. Provides the student with on-the-job experience and training related to public relations. Required: Student Petition. Corequisites: CWE-281					
ONL LCT	J-280A-01 340374 M. JONES Meets: 6/24-8/15. Required: Student Petition.		\$780.00	\$78.00	\$45.00	\$903.00V

Library

LIB-101	INTRODUCTION TO LIBRARY RESEARCH, 1 CREDIT Introduces and strengthens college-level research skills. Students will build an understanding of strategies for finding, evaluating, and using information responsibly. Prepares students for success in research-based college assignments and real-life research needs.					
ONL LCT	LIB-101-01 340585 TBA Meets: 6/23-8/23.		\$0.00	\$0.00	\$0.00	\$0.00
ONL LCT	LIB-101-02 340587 TBA Meets: 6/23-8/23.		\$0.00	\$0.00	\$0.00	\$0.00

Machine Tool Technology

MTT-111	MANUAL MACHINING I, 4 CREDITS This course is an introduction to machine tool operation and precision measurement. It covers elementary operation of drill presses, bandsaws, lathes, and milling machines. The course includes external threading. Recommended Prerequisite or Corequisite: MFG-104 and MTH-050					
OC	MTT-111-01 340600 MW J. TRAVER Meets: 6/23-8/14.		\$520.00	\$52.00	\$205.00	\$777.00

MTT-113	MANUAL MACHINING III, 4 CREDITS 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. Prerequisites: MTT-112					
OC	MTT-113-01 340601 MW J. TRAVER Meets: 6/23-8/14.		\$520.00	\$52.00	\$205.00	\$777.00

MTT-141	CAD/CAM I, 4 CREDITS This course is the first in the CAM series and will introduce students to computer-aided part creation and programming. Students will use CAD/CAM software to generate Numerical Control (NC) code to produce machined products. Model creation, process verification, code generation, and CAD/CAM integration will be covered. Recommended Prerequisites: MTT-121					
OC	MTT-141-01 340604 TTH C. LETTENMAIER Meets: 6/23-8/14.		\$520.00	\$52.00	\$205.00	\$777.00

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NCT: No-Cost Text

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	Instructor		Tuition	Fee	Crs. Fee	

Manufacturing Technology

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

MFG-104 PRINT READING, 3 CREDITS

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

ONL	MFG-104-01	340590				
	P. WANNER		\$390.00	\$39.00	\$153.75	\$582.75
	Meets: 6/23-8/14.					

MFG-107 INDUSTRIAL SAFETY & FIRST AID, 3 CREDITS

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

OC HYB	MFG-107-01	340592 W			1-3:50 PM	
	L. HILLYARD		\$390.00	\$39.00	\$153.75	\$582.75
	Meets: 6/23-8/14.					

MFG-109 COMPUTER LITERACY FOR TECHNICIANS, 3 CREDITS

Presents the uses of computers in business and industry. Subjects covered include computer platforms, basic hardware, data communication and operating systems. Reviews & uses word processing, spreadsheet and database software for the PC.

REM	MFG-109-01	340593 F			12-3:50 PM	
	A. ARISTIZABAL		\$390.00	\$39.00	\$282.19	\$711.19
	Meets: 6/23-8/14. Online textbook included in section fees.					

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	MFG-110-01	340595 MW			4-9:20 PM	
	C. LETTENMAIER		\$390.00	\$39.00	\$153.75	\$582.75
	Meets: 6/23-8/14. Required: Student Petition.					

MFG-199 EXPERIMENTAL COURSES: MANUFACTURING

Selected courses of study offered on an experimental or temporary basis. See section(s) for detailed information.

oc	INTRO TO PROF KNIFEMAKING, 1 CREDIT					
	MFG-199-01	345092 F			10-11:50 AM	
	C. CONNORS		\$130.00	\$13.00	\$0.00	\$143.00
	Meets: 6/23-8/14. This course will introduce the art and science of professional, custom knifemaking. Students will fabricate, heat treat and finish a custom, fixed-blade knife, scales and sheath. This course will introduce basic metal-working and wood-working power tools, hand grinding techniques, and CNC machinery. Metallurgy fundamentals and surface finishing will also be discussed.					

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

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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	

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

Corequisites: CWE-281

ONL	MFG-280-01	340598				
	C. CONNORS		\$780.00	\$78.00	\$75.00	\$933.00
	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	MTH-020-01	340510				
	TBA		\$520.00	\$52.00	\$20.00	\$592.00
	Meets: 6/23-8/14.					

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	MTH-020ES-01	340513 S			8-12:20 PM	
	A. ARISTIZABAL		\$520.00	\$52.00	\$20.00	\$592.00
	Requerido: petición del estudiante. Meets: 6/23-8/14.					

MTH-050 TECHNICAL MATHEMATICS I, 4 CREDITS

Designed for career-technical students. Topics focus on critical thinking, problem solving, and mathematical communication using applications of arithmetic, measurement, geometry, and statistics and probability.

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

OC HYB LCT	MTH-050-01	340515 TTH			1-3:20 PM	
	A. ARISTIZABAL		\$520.00	\$52.00	\$20.00	\$592.00
	Meets: 6/23-8/14.					

MTH-060 ALGEBRA I, 4 CREDITS

Designed for review or for the beginner, this course is an introduction to topics in Algebra. Expressions, equations, inequalities, graphing, and functions are explored.

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

HAR LCT	MTH-060-15	340524 TTH			9-11:20 AM	
	A. ARISTIZABAL		\$520.00	\$52.00	\$20.00	\$592.00
	Meets: 6/23-8/14.					

MTH-065 ALGEBRA II, 4 CREDITS

The second term of topics in algebra using the rule-of-four approach: graphs, tables, words, and equations. This course emphasizes algebraic skills, as well as problem solving and graphical techniques with the use of a graphing utility.

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

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

OC HYB LCT	MTH-065-10 340526 TBA	J. KUOHA	\$520.00	\$52.00	\$20.00	\$592.00
	Meets: 6/23-8/14. This is an online section that meets for in-person testing dates only.					
HAR LCT	MTH-065-15 340531 TTH	A. ARISTIZABAL	\$520.00	\$52.00	\$20.00	\$592.00
	Meets: 6/23-8/14. 9-11:20 AM					

MTH-095 ALGEBRA III, 4 CREDITS

The third term of topics in algebra using the rule-of-four approach is designed to prepare students for transfer-level math courses. This course emphasizes problem-solving and graphical techniques with the use of a graphing utility.

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

OC LCT	MTH-095-01 340533 MW	J. HEVEL	\$520.00	\$52.00	\$20.00	\$592.00
	Meets: 6/23-8/14. 9-11:20 AM					
OC HYB LCT	MTH-095-10 340540 TBA	J. KUOHA	\$520.00	\$52.00	\$20.00	\$592.00
	Meets: 6/23-8/14. This is an online section that meets for in-person testing dates only.					

MTH-098 COLLEGE MATH FOUNDATIONS, 4 CREDITS

In our society, we see and hear about important topics and trends that involve numbers. In this class, participants work to understand and communicate what these numbers mean. Students will explore ways they interact with quantitative information in daily life, learn to effectively interpret and communicate quantitative information, and apply their own knowledge and experience to quantitative reasoning. Learning happens in small student groups, with technology, and through reflective writing. The class is project-based, meaning that students complete projects to demonstrate what they have learned.

Prerequisites: MTH-020 with a C or better, or placement in MTH-050, MTH-060, or MTH-098

ONL LCT	MTH-098-10 340544	M. PRICE	\$520.00	\$52.00	\$20.00	\$592.00
	Meets: 6/23-8/14.					
ONL	MTH-098-12 345347	M. JOSI	\$520.00	\$52.00	\$20.00	\$592.00
	Meets: 6/23-8/14.					

MTH-105Z MATH IN SOCIETY, 4 CREDITS

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

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

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

OC HYB LCT	MTH-105Z-01 340547 MW	M. YANNOTTA	\$520.00	\$52.00	\$20.00	\$592.00
	Meets: 6/23-8/14. 1-2:50 PM					
ONL LCT	MTH-105Z-10 340550	M. YANNOTTA	\$520.00	\$52.00	\$20.00	\$592.00
	Meets: 6/23-8/14.					
ONL LCT	MTH-105Z-11 340552	M. JOSI	\$520.00	\$52.00	\$20.00	\$592.00
	Meets: 6/23-8/14.					

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
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	Instructor		Tuition	Fee	Crs. Fee	

MTH-111Z PRECALCULUS I: FUNCTIONS, 4 CREDITS

A course primarily designed for students preparing for trigonometry or calculus. This course focuses on functions and their properties, including polynomial, rational, exponential, logarithmic, piecewise-defined, and inverse functions. These topics will be explored symbolically, numerically, and graphically in real-life applications and interpreted in context. This course emphasizes skill building, problem solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of present-day technology.

Prerequisites: MTH-095 with a C or better, or placement in MTH-111Z
Recommended Prerequisites: WRD-098 or placement in WR-121Z

OC LCT	MTH-111Z-01 340553 TTH	B. WEBBER	\$520.00	\$52.00	\$20.00	\$592.00
	Meets: 6/23-8/14. 9-11:50 AM					
OC HYB LCT	MTH-111Z-10 340558 TBA	J. KUOHA	\$520.00	\$52.00	\$20.00	\$592.00
	Meets: 6/23-8/14. This is an online section that meets for in-person testing dates only.					

MTH-112Z PRECALCULUS II: TRIGONOMETRY, 4 CREDITS

A course primarily designed for students preparing for calculus and related disciplines. This course explores trigonometric functions and their applications as well as the language and measurement of angles, triangles, circles, and vectors. These topics will be explored symbolically, numerically, and graphically in real-life applications and interpreted in context. This course emphasizes skill building, problem solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of present-day technology.

Prerequisites: MTH-111Z with a C or better, or placement in MTH-112Z
Recommended Prerequisites: WRD-098 or placement in WR-121Z

OC LCT	MTH-112Z-01 340560 MW	B. WEBBER	\$520.00	\$52.00	\$20.00	\$592.00
	Meets: 6/23-8/14. 9-11:50 AM					
OC LCT	MTH-112Z-02 345093 TTH	B. WEBBER	\$520.00	\$52.00	\$20.00	\$592.00
	Meets: 6/23-8/14. 2-4:50 PM					

MTH-251Z DIFFERENTIAL CALCULUS, 4 CREDITS

This course explores limits, continuity, derivatives, and their applications for real-valued functions of a single variable. These topics will be explored graphically, numerically, and symbolically in real-life applications. This course emphasizes abstraction, problem-solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of technology.

Prerequisites: MTH-112Z with a C or better, or placement in MTH-251Z
Recommended Prerequisites: WRD-098 or placement in WR-121Z

OC HYB LCT	MTH-251Z-10 340572 TBA	C. WARNER	\$520.00	\$52.00	\$20.00	\$592.00
	Meets: 6/23-8/14. 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

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
	Instructor		Tuition	Fee	Crs. Fee	
OC LCT	MTH-252Z-01 340573 TTH				1-3:50 PM	
	M. HAUGEN		\$520.00	\$52.00	\$20.00	\$592.00
	Meets: 6/23-8/14.					

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 LCT	MTH-253Z-01 340575 TTH				1-3:50 PM	
	S. PRUYN		\$520.00	\$52.00	\$20.00	\$592.00
	Meets: 6/23-8/14.					

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 LCT	MTH-254-01 340576 W				1-4:50 PM	
	A. HALL		\$650.00	\$65.00	\$20.00	\$735.00
	Meets: 6/23-8/14.					

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 LCT	MTH-256-01 340578 W				9-11:50 AM	
	A. HALL		\$520.00	\$52.00	\$20.00	\$592.00
	Meets: 6/23-8/14.					

MTH-261 LINEAR ALGEBRA, 4 CREDITS

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

Prerequisites: MTH-252Z with a C or better

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

OC LCT	MTH-261-01 340579 TTH				9-11:50 AM	
	M. HAUGEN		\$520.00	\$52.00	\$20.00	\$592.00
	Meets: 6/23-8/14.					

MTH-275 A BRIDGE TO UNIVERSITY MATHEMATICS, 3 CREDITS

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

Prerequisites: MTH-251Z

REM LCT	MTH-275-01 340581 MTWTH				9-10:50 AM	
	M. YANNOTTA		\$0.00	\$0.00	\$0.00	\$0.00
	Required: Student Petition. Meets: 6/23-7/10.					

Medical Billing and Coding

Campus Locations:

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

Distance Education Notification:

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HYB: In-person plus online work

Other Coding Translations:

TBA: To be arranged: contact department first class
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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	
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	MBC-225-01 340332 M				6-9:00 PM	
	C. GARNER		\$650.00	\$65.00	\$320.00	\$1,035.00

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	MUS-280-01 340350					
	C. DOGGETT		\$780.00	\$78.00	\$144.00	\$1,002.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					
OC NCT	MUS-280-02 340351					
	G. HARRIS		\$780.00	\$78.00	\$144.00	\$1,002.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

XMUP-0001 UNISTUS CHOIR, 0 CREDIT

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

OC	XMUP-0001-01 340356 M				6:30 -9:20 PM	
	L. CLINE		\$0.00	\$0.00	\$0.00	\$0.00

Music: Individual Lessons - Non-Music Majors

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

Private lessons for beginners, non-music majors, and students who receive a low rating in MUP-171 through MUP-191 auditions. Brass, woodwind, percussion, string and keyboard instruments, and voice. May be repeated for up to 12 credits. Required: Student Petition.

OC NCT	MUP-100-01 340333 TBA					
	K. POLITZER		\$130.00	\$13.00	\$225.00	\$368.00
	Required: Student Petition. Jazz Piano Lessons.					
OC NCT	MUP-100-02 340334 TBA					
	Y. MIYAMA		\$130.00	\$13.00	\$225.00	\$368.00
	Required: Student Petition. Piano Lessons.					

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	
OC NCT	MUP-100-03 340335 TBA D. FLESCHNER Required: Student Petition. Rock, Blues, and Pop Piano Lessons.		\$130.00	\$13.00	\$225.00	\$368.00		K. DEITZ Required: Student Petition. Bass Lessons.		\$260.00	\$26.00	\$450.00	\$736.00
OC NCT	MUP-100-04 340336 TBA J. ISRAELS Required: Student Petition. Voice Lessons.		\$130.00	\$13.00	\$225.00	\$368.00	OC NCT	MUP-100-28 345066 TBA D. TUTMARK Required: Student Petition. Guitar Lessons.		\$260.00	\$26.00	\$450.00	\$736.00
OC NCT	MUP-100-05 340337 TBA B. MICHAEL Required: Student Petition. Voice Lessons.		\$130.00	\$13.00	\$225.00	\$368.00	OC NCT	MUP-100-29 345067 TBA A. CSIKOS Required: Student Petition. Jazz Guitar Lessons.		\$260.00	\$26.00	\$450.00	\$736.00
OC NCT	MUP-100-06 340338 TBA C. AVERILL Required: Student Petition. Cello Lessons.		\$130.00	\$13.00	\$225.00	\$368.00	OC NCT	MUP-100-30 345068 TBA G. HARRIS Required: Student Petition. Saxophone Lessons.		\$260.00	\$26.00	\$450.00	\$736.00
OC NCT	MUP-100-07 340339 TBA K. DEITZ Required: Student Petition. Bass Lessons.		\$130.00	\$13.00	\$225.00	\$368.00	OC NCT	MUP-100-31 345069 TBA J. KLAUSE Required: Student Petition. Trumpet Lessons.		\$260.00	\$26.00	\$450.00	\$736.00
OC NCT	MUP-100-08 340340 TBA D. TUTMARK Required: Student Petition. Guitar Lessons.		\$130.00	\$13.00	\$225.00	\$368.00	OC NCT	MUP-100-32 345070 TBA C. DOGGETT Required: Student Petition. Percussion & Drumset Lessons.		\$260.00	\$26.00	\$450.00	\$736.00
OC NCT	MUP-100-09 340341 TBA A. CSIKOS Required: Student Petition. Jazz Guitar Lessons.		\$130.00	\$13.00	\$225.00	\$368.00	OC NCT	MUP-100-33 345071 TBA S. TIEDEMANN Required: Student Petition. Flute Lessons.		\$260.00	\$26.00	\$450.00	\$736.00
OC NCT	MUP-100-10 340342 TBA G. HARRIS Required: Student Petition. Saxophone Lessons.		\$130.00	\$13.00	\$225.00	\$368.00	OC NCT	MUP-100-34 345072 TBA T. STOJANOVIC Required: Student Petition. Piano Lessons.		\$260.00	\$26.00	\$450.00	\$736.00
OC NCT	MUP-100-11 340343 TBA J. KLAUSE Required: Student Petition. Trumpet Lessons.		\$130.00	\$13.00	\$225.00	\$368.00	OC NCT	MUP-100-35 345073 TBA C. LEE Required: Student Petition. Oboe Lessons.		\$260.00	\$26.00	\$450.00	\$736.00
OC NCT	MUP-100-12 340344 TBA C. DOGGETT Required: Student Petition. Percussion & Drum Set Lessons.		\$130.00	\$13.00	\$225.00	\$368.00	OC NCT	MUP-100-36 345074 TBA B. GARDINER Required: Student Petition. Percussion Lessons.		\$260.00	\$26.00	\$450.00	\$736.00
OC NCT	MUP-100-14 340346 TBA T. STOJANOVIC Required: Student Petition. Piano Lessons.		\$260.00	\$26.00	\$450.00	\$736.00	OC NCT	MUP-100-37 345058 TBA L. CAMPBELL Required: Student Petition. Trombone Lessons.		\$130.00	\$13.00	\$225.00	\$368.00
OC NCT	MUP-100-15 345055 TBA C. LEE Required: Student Petition. Oboe Lessons.		\$130.00	\$13.00	\$225.00	\$368.00							
OC NCT	MUP-100-16 345056 TBA B. GARDINER Required: Student Petition. Percussion Lessons.		\$130.00	\$13.00	\$225.00	\$368.00							
OC NCT	MUP-100-17 345057 TBA L. CAMPBELL Required: Student Petition. Trombone Lessons.		\$130.00	\$13.00	\$225.00	\$368.00							
OC NCT	MUP-100-21 345059 TBA K. POLITZER Required: Student Petition. Jazz Piano Lessons.		\$260.00	\$26.00	\$450.00	\$736.00							
OC NCT	MUP-100-22 345060 TBA Y. MIYAMA Required: Student Petition. Piano Lessons.		\$260.00	\$26.00	\$450.00	\$736.00							
OC NCT	MUP-100-23 345061 TBA D. FLESCHNER Required: Student Petition. Rock, Blues, and Pop Piano Lessons.		\$260.00	\$26.00	\$450.00	\$736.00							
OC NCT	MUP-100-24 345062 TBA J. ISRAELS Required: Student Petition. Voice Lessons.		\$260.00	\$26.00	\$450.00	\$736.00							
OC NCT	MUP-100-25 345063 TBA B. MICHAEL Required: Student Petition. Voice Lessons.		\$260.00	\$26.00	\$450.00	\$736.00							
OC NCT	MUP-100-26 345064 TBA C. AVERILL Required: Student Petition. Cello Lessons.		\$260.00	\$26.00	\$450.00	\$736.00							
OC NCT	MUP-100-27 345065 TBA												

Nursing

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

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

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

NUR-100 NURSING ASSISTANT I, 6.5 CREDITS

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

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

Corequisites: NUR-100C

HAR	NUR-100-01	340352 TW			9-1:30 PM	
	M. BAKER	\$845.00	\$84.50	\$300.00		\$1,229.50
	S. ELLSBERG					
	Required: Student Petition. Please see the Nursing Assistant webpage for details. Application required to enter the course. Application details can be found on the webpage.					

NUR-100C NURSING ASSISTANT I CLINICAL, 0 CREDIT

Prepares the student to perform routine nursing assistant tasks to clients in hospitals, long-term and skilled care facilities, as well as the community. Includes clinical practicum. Required: Student Petition.

Corequisites: NUR-100

HAR	NUR-100C-01	340353 TBA				
	J. LAFRANCE	\$0.00	\$0.00	\$0.00		\$0.00
	Required: Student Petition. Mandatory 3 hours orientation at clinical site/TBA.					
HAR	NUR-100C-02	345040 TBA				
	M. BAKER	\$0.00	\$0.00	\$0.00		\$0.00
	Required: Student Petition.					

Philosophy

PHL-101 PHILOSOPHICAL PROBLEMS, 4 CREDITS

Introduces basic philosophical questions such as: What is reality? What is knowledge? What is truth? Can humans freely choose? What is human awareness? What is a meaningful life?

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

ONL LCT	PHL-101-01	340583				
	K. HADDIX	\$520.00	\$52.00	\$0.00		\$572.00
	Meets online: 6/23-8/14.					

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

Campus Locations:

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Distance Education Notification:

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- HYB: In-person plus online work

Other Coding Translations:

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

ESPAÑOL: Enseñado en español

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

Course 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	PHL-102-01	340586				
	M. BAILEY	\$520.00	\$52.00	\$0.00		\$572.00
	Meets online: 6/23-8/14.					

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.

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

Corequisites: PHB-130

ONL LCT	PHB-125-01	340354				
	E. ZUNIGA	\$130.00	\$13.00	\$100.00		\$243.00
	Required: Student Petition.					

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

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

Corequisites: PHB-125

HAR	PHB-130-01	340355 TBA				
	E. ZUNIGA	\$650.00	\$65.00	\$135.00		\$850.00
	Required: Student Petition.					

Physical Education

PE-185 PHYSICAL ACTIVITY CLASSES, 1 CREDIT

Recommended: Current physical examination before enrolling

ONL NCT	WALK, JOG, FITNESS I, 1 CREDIT	PE-185-010	340605			
	K. MCHONE	\$130.00	\$13.00	\$30.00		\$173.00
	Meets: 6/23-8/14.					

ONL NCT	WALK, JOG, FITNESS I, 1 CREDIT	PE-185-011	340606			
	J. RHODEN	\$130.00	\$13.00	\$30.00		\$173.00
	Meets: 6/23-8/14.					

Political Science

PS-201 AMERICAN GOVERNMENT AND POLITICS, 4 CREDITS

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

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

ONL	PS-201-01	340589				
	J. HITE	\$520.00	\$52.00	\$0.00		\$572.00
	Meets online: 6/23-8/14.					

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

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	PSY-101-01 340591	M. MALLATT		\$390.00	\$39.00	\$0.00	\$429.00
	Meets online: 6/23-8/14.						
ONL NCT	PSY-101-ASE01 340596	M. MALLATT		\$0.00	\$0.00	\$0.00	\$0.00
	Meets online: 6/23-8/14. 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

ONL	PSY-201Z-01 340597	S. TOBIN		\$520.00	\$52.00	\$0.00	\$572.00
	Meets online: 6/23-8/14.						

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

ONL	PSY-215-01 340602	J. BENNETT		\$520.00	\$52.00	\$0.00	\$572.00
	Meets online: 7/28-8/28.						

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	PSY-219-01 340609	E. SAUBER		\$520.00	\$52.00	\$0.00	\$572.00
	Meets online: 6/23-8/14.						

PSY-231 INTRODUCTION TO HUMAN SEXUALITY, 4 CREDITS

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

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

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ONL NCT	PSY-231-01 340611	E. SAUBER		\$520.00	\$52.00	\$0.00	\$572.00
	Meets online: 6/23-8/14.						

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	R-101-01 340613	J. SHELTON		\$520.00	\$52.00	\$0.00	\$572.00
	Meets online: 6/23-8/14.						

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	RET-280-01 340607	C. CONNORS		\$1,560.00	\$156.00	\$570.00	\$2,286.00
	0						
	Required: Student Petition. Corequisite: Take the following CWE-281-06.						

Small Business Development Center

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

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

SBM-010 REAL ESTATE BROKER LICENSE, 0 CREDIT

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

REM	SBM-010-01SU	345160 TH	6-9:00 PM
	TBA	S	9-5:00 PM

SBM-011 PROPERTY MANAGEMENT PRE-LICENSE, 0 CREDIT

Prepares students to qualify for the Oregon Real Estate Property Management License exam by studying laws and statutes pertaining to the licensing and professional property management activity required by all licensees of the State of Oregon.

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	Instructor		Tuition	Fee	Crs. Fee	
REM	SBM-011-01SU TBA	345161	T		6-7:50 PM	

XSBM-0003 GOING INTO BUSINESS, 0 CREDIT

Going Into Business orientation introduces the steps you need to take to start-up and successfully operate a small business in Oregon. Before you go too far, find out what it takes to start up your own business. This workshop will help you assess whether business ownership is the right path for you. Discover what resources are available to you for researching, starting-up, financing, and managing your new business.

REM	XSBM-0003-01SU J. SELBY	345164	TH		6:30 -9:20 PM	
REM	XSBM-0003-02SU J. SELBY	345154	TH		6:30 -9:20 PM	
REM	XSBM-0003-03SU J. SELBY	345155	TH		6:30 -9:20 PM	

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 C. WEESNER	345156	W		6-8:50 PM	
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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-0024-40SU D. TOURNEY	345159				
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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 J. SHELTON	340627			\$520.00	\$52.00	\$0.00	\$572.00
					Meets online: 6/23-8/14.			

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

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	Instructor		Tuition	Fee	Crs. Fee	
OC HYB	SOC-204Z-01 E. PFEIFER	340614	W		1-3:45 PM	\$520.00 \$52.00 \$0.00 \$572.00
					Meets: 6/23-8/14.	

SOC-206Z SOCIAL PROBLEMS, 4 CREDITS

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

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

OC HYB	SOC-206Z-01 E. PFEIFER	345229	TH		1-3:45 PM	\$520.00 \$52.00 \$0.00 \$572.00
					Meets: 6/23-8/14.	

Statistics

STAT-243Z ELEMENTARY STATISTICS I, 4 CREDITS

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

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

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

OC LCT	STAT-243Z-01 T. BIEBER	340628	MW		2-4:50 PM	\$520.00 \$52.00 \$20.00 \$592.00
					Meets: 6/23-8/14.	
ONL LCT	STAT-243Z-10 M. PRICE	340631				\$520.00 \$52.00 \$20.00 \$592.00
					Meets: 6/23-8/14.	

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.

oc	WET-108-01 J. NURMI	340612	TWTHF		8-4:50 PM	\$390.00 \$39.00 \$0.00 \$429.00
					Meets: 9/2-9/5. Section meets in-person on campus. Contact Jim Nurmi at jamesn@clackamas.edu for more information.	

WET-109 BACKFLOW ASSEMBLY OPERATION AND TESTING, 4 CREDITS

Lecture course with lab component that focuses on backflow assembly hydraulics, operations, installation, and testing.

oc	WET-109-02 M. LAFORCE	340617	MTWTHF		8-4:50 PM	\$520.00 \$52.00 \$4.00 \$576.00
					Meets: 8/4-8/8.	

WET-180 WATER & ENVIRONMENTAL PROJECTS I, 5 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			

Cooperative work experience. Practical work experience in a municipal industrial treatment, distribution, or collection system. Placement in consulting firms, federal and state regulatory agencies, BLM, BPA, and other regulated governmental organizations.

Corequisites: CWE-281

ONL	WET-180-01 340618					
	M. LAFORCE	\$650.00	\$65.00	\$45.00		\$760.00
Meets: 6/23-8/14. 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 & trend charting, and relevant sanitary process strategies will be addressed.

Corequisites: CWE-281

ONL	WET-280-01 340620					
	M. LAFORCE	\$650.00	\$65.00	\$45.00		\$760.00
Meets: 6/23-8/14. 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	XWET-C002-11 340723 F				8-3:50 PM	
	M. LAFORCE	\$0.00	\$0.00	\$0.00		\$0.00
Meets: 7/11. Fee: \$100.00. Go to ccc-wet.eventbrite.com to sign up.						

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

Designed to provide information to individuals involved in the protection of public water systems from contamination due to cross connections. This course should be of special interest to cross connection control specialists, plumbing inspectors, waterworks managers, and backflow device testers.

oc	XWET-C004-41 340725 TWTHF				8-4:50 PM	
	J. NURMI	\$0.00	\$0.00	\$0.00		\$0.00
Meets: 9/2-9/5. Fee: \$400.00. 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.

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	XWET-C005-52 340727 MTWTHF				8-5:00 PM	
	M. LAFORCE	\$0.00	\$0.00	\$0.00		\$0.00
Meets: 8/4-8/8. Fee: \$500.00. Go to ccc-wet.eventbrite.com to sign up.						

Welding Technology

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

WLD-100 WELDER'S PRINT READING I, 3 CREDITS

Provides instruction in reading and interpretation of prints and symbols common in the welding industry. Participants will learn the interpretation and application of basic lines, dimensions, structural shapes, and specifications. Welding symbols and their application to different types of joint configurations will be covered, as well as how to develop basic shop drawings and prints.

oc	WLD-100-01 340621 T				5-8:50 PM	
	M. TIZO	\$390.00	\$39.00	\$219.00		\$648.00
Meets: 6/24-8/19.						

WLD-102 INTRODUCTION TO WELDING, 2 CREDITS

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

oc NCT	WLD-102-01 340623 S				8-12:50 PM	
	K. DRURY	\$260.00	\$26.00	\$146.00		\$432.00
Meets: 6/28-8/23.						

WLD-110 WELDER CERTIFICATION, 4 CREDITS

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

oc NCT	WLD-110-01 340626 MW				8-12:50 PM	
	R. ABBOTT	\$520.00	\$52.00	\$432.00		\$1,004.00
Required: Student Petition. Meets: 6/23-8/20.						

oc NCT	WLD-110-02 340629 MW				5-9:50 PM	
	M. TIZO	\$520.00	\$52.00	\$432.00		\$1,004.00
Meets: 6/24 - 8/21.						

oc NCT	WLD-110-04 340630 TTH				10:30 -3:20 PM	
	B. MULLIGAN	\$520.00	\$52.00	\$432.00		\$1,004.00
Required: Student Petition. Meets: 6/24-8/21.						

oc NCT	WLD-110-05 340633 TTH				5-9:50 PM	
	B. MULLIGAN	\$520.00	\$52.00	\$432.00		\$1,004.00
Required: Student Petition. Meets: 6/24-8/21.						

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.

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OC LCT	WLD-113-01 340634 MTWTH 5-9:50 PM	J. PHELPS				\$1,040.00	\$104.00	\$584.00	\$1,728.00
	Meets: 6/23-8/21.								

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 LCT	WLD-113A-01 340635 MW 5-9:50 PM	J. PHELPS	\$520.00	\$52.00	\$292.00	\$864.00			
	Meets: 6/23-8/20.								
OC	WLD-113A-06 345329 SSU 5-9:50 PM	R. ABBOTT	\$520.00	\$52.00	\$292.00	\$864.00			
	Meets: 6/24-8/24.								

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 LCT	WLD-113B-01 340640 TTH 5-9:50 PM	J. PHELPS	\$520.00	\$52.00	\$292.00	\$864.00			
	Meets: 6/24-8/21.								

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	WLD-115-01 340643 MTWTH 8-12:50 PM	D. PODKOWA	\$1,040.00	\$104.00	\$584.00	\$1,728.00			
	Meets: 6/23-8/21.								

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	WLD-115A-01 340651 MW 8-12:50 PM	D. PODKOWA	\$520.00	\$52.00	\$292.00	\$864.00			
	Meets: 6/23-8/20.								

WLD-115B GAS TUNGSTEN ARC WELDING (GTAW), 4 CREDITS

The second half of WLD-115 which provides the opportunity to acquire additional knowledge and skills needed to perform more advanced fillet and groove welds in vertical and overhead positions with the Gas Tungsten Arc Welding process. Welding codes, standards, and specifications will be reviewed.

Prerequisites: WLD-115A

OC	WLD-115B-01 340657 TTH 8-12:50 PM	D. PODKOWA	\$520.00	\$52.00	\$292.00	\$864.00			
	Meets: 6/24-8/21.								

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WLD-150	WELDING PROCESSES, 4 CREDITS	Covers oxy-fuel welding, brazing, cutting, SMAW (Shielded Metal Arc Welding), GMAW & FCAW (Gas Metal Arc Welding & Flux Core Arc Welding) and GTAW (Gas Tungsten Arc Welding) and plasma arc cutting and plasma cutting. This course includes safety, electrical fundamentals, routine maintenance, minor repairs, and welding terms and definitions.							

OC	WLD-150-01 340659 MW 8-12:50 PM	R. ABBOTT	\$520.00	\$52.00	\$292.00	\$864.00			
	Meets: 6/23-8/20.								

OC NCT	WLD-150-02 340668 MW 5-9:50 PM	M. TIZO	\$520.00	\$52.00	\$292.00	\$864.00			
	Meets: 6/23-8/20.								

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

Provides instruction in reading and interpretation of prints and symbols common in welding industry. Participants will learn interpretation and application of blueprint views. Includes basic layout techniques and math review. American Welding Society symbols, International Standards Organization symbols, pipe welding symbols, and inspection symbols are covered.

Prerequisites: WLD-100

OC	WLD-200-01 340671 W 1-4:50 PM	D. PODKOWA	\$390.00	\$39.00	\$219.00	\$648.00			
	Meets: 6/25-8/20.								

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	WLD-215-01 340675 TTH 10:30 -3:20 PM	B. MULLIGAN	\$520.00	\$52.00	\$292.00	\$864.00			
	Meets: 6/24-8/21.								

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-113, or WLD-115

OC NCT	WLD-250-01 340679 TTH 5-9:50 PM	B. MULLIGAN	\$520.00	\$52.00	\$292.00	\$864.00			
	Meets: 6/24-8/21.								

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

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
	Instructor		Tuition	Fee	Crs. Fee	
OC NCT	WLD-251-01 340681 TTH B. MULLIGAN Meets: 6/24-8/19.		\$520.00	\$52.00	5-9:50 PM \$292.00	\$864.00

WLD-252 WELDING FABRICATION III ADVANCED PROJECT, 4 CREDITS

This course consists of lecture and lab. Students will use the skills learned in WLD-250 and WLD-251, such as blueprint reading, layout, sketching, bills of materials, job cost calculations, measuring, fitting, cutting and welding, and apply them to advanced projects. Students will be assigned advanced fabrication projects. The student will be responsible for all aspects of managing the project to successful completion.

Prerequisites: WLD-251

OC NCT	WLD-252-01 340686 TTH B. MULLIGAN Meets: 6/24-8/21.		\$520.00	\$52.00	5-9:50 PM \$292.00	\$864.00
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WLD-261 WELDING SPECIAL PROJECTS, 1-2 CREDITS (VAR)

Allows students to improve their welding skills while working on instructor-approved projects. May be repeated for up to 12 credits.

OC NCT	WLD-261-01 340689 T B. MULLIGAN Required: Student Petition. Meets: 6/24-8/19.		\$260.00	\$26.00	10:30 -3:20 PM \$146.00	\$432.00V
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OC NCT	WLD-261-02 340693 M D. PODKOWA Required: Student Petition. Meets: 6/23-8/18.		\$260.00	\$26.00	8-12:50 PM \$146.00	\$432.00V
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OC NCT	WLD-261-03 340695 M J. PHELPS Required: Student Petition. Meets: 6/23-8/18.		\$260.00	\$26.00	5-9:50 PM \$146.00	\$432.00V
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OC NCT	WLD-261-04 340697 T J. PHELPS Required: Student Petition. Meets: 6/24-8/19.		\$260.00	\$26.00	5-9:50 PM \$146.00	\$432.00V
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OC NCT	WLD-261-05 340699 TH B. MULLIGAN Required: Student Petition. Meets: 6/26-8/21.		\$260.00	\$26.00	10:30 -3:20 PM \$146.00	\$432.00V
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OC NCT	WLD-261-06 340700 T D. PODKOWA Required: Student Petition. Meets: 6/24-8/19.		\$260.00	\$26.00	8-12:50 PM \$146.00	\$432.00V
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OC NCT	WLD-261-07 340701 W J. PHELPS Required: Student Petition. Meets: 6/25-8/20.		\$260.00	\$26.00	5-9:50 PM \$146.00	\$432.00V
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OC NCT	WLD-261-08 340702 TH J. PHELPS Required: Student Petition. Meets: 6/26-8/21.		\$260.00	\$26.00	5-9:50 PM \$146.00	\$432.00V
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OC NCT	WLD-261-09 340703 W D. PODKOWA Required: Student Petition. Meets: 6/25-8/20.		\$260.00	\$26.00	8-12:50 PM \$146.00	\$432.00V
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OC NCT	WLD-261-10 340704 S K. DRURY Required: Student Petition. Meets: 6/28-8/23.		\$260.00	\$26.00	8-12:50 PM \$146.00	\$432.00V
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OC NCT	WLD-261-11 340705 TH D. PODKOWA Required: Student Petition. Meets: 6/26-8/21.		\$260.00	\$26.00	8-12:50 PM \$146.00	\$432.00V
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XWLD-0001 AMERICAN WELDING SOCIETY (WLD) CERTIFICATION 1 PLATE TEST, 0 CREDIT

Welder certification in accordance with AWS D1.1 for one position for students enrolled in any CCC welding course.

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	XWLD-0001-01 340730 TBA B. MULLIGAN Required: Student Petition.		\$0.00	\$0.00	\$140.00	\$140.00

XWLD-0002 AMERICAN WELDING SOCIETY CERTIFICATION 2 PLATE OR 1 PIPE TEST, 0 CREDIT

Welder certification in any two positions, in accordance with AWS D1.1 for students enrolled in any CCC welding course.

oc	XWLD-0002-01 340731 TBA B. MULLIGAN Required: Student Petition.		\$0.00	\$0.00	\$280.00	\$280.00
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XWLD-0003 AMERICAN WELDING SOCIETY CERTIFICATION RETAKE TEST, 0 CREDIT

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

oc	XWLD-0003-01 340732 TBA B. MULLIGAN Required: Student Petition.		\$0.00	\$0.00	\$25.00	\$25.00
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World Languages

SPN-101 FIRST-YEAR SPANISH I, 4 CREDITS

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

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

ONL NCT	SPN-101-01 340622 V. SHORT Meets online: 6/23-7/10.		\$520.00	\$52.00	\$10.00	\$582.00
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SPN-102 FIRST-YEAR SPANISH II, 4 CREDITS

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

Prerequisites: SPN-101

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

ONL NCT	SPN-102-01 340624 V. SHORT Meets online: 7/14-7/31.		\$520.00	\$52.00	\$10.00	\$582.00
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SPN-103 FIRST-YEAR SPANISH III, 4 CREDITS

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

Prerequisites: SPN-102

ONL NCT	SPN-103-01 340625 V. SHORT Meets online: 8/4-8/21.		\$520.00	\$52.00	\$10.00	\$582.00
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Writing

WR-101 WORKPLACE WRITING, 4 CREDITS

Campus Locations:

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

Distance Education Notification:

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

Other Coding Translations:

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

ESPAÑOL: Enseñado en español

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

Course 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	

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	WR-101-01	340632											
	C. ZIMMERLY-BECK		\$520.00	\$52.00	\$19.00	\$591.00							
	Meets: 6/23-8/14.												

WR-121Z COMPOSITION I, 4 CREDITS

WR-121Z engages students in the study and practice of critical thinking, reading, and writing. The course focuses on analyzing and composing across varied rhetorical situations and in multiple genres. Students will apply key rhetorical concepts flexibly and collaboratively throughout their writing and inquiry processes.

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

OC LCT	WR-121Z-01	340637 MW					10-12:35 PM						
	J. BEREZHNOY		\$520.00	\$52.00	\$19.00	\$591.00							
	Meets: 6/23-8/14.												
OC LCT	WR-121Z-02	340642 TTH					10-12:35 PM						
	W. DAWKINS		\$520.00	\$52.00	\$19.00	\$591.00							
	Meets: 6/23-8/14.												
OC HYB LCT	WR-121Z-03	340644 M					1-3:35 PM						
	S. WARREN		\$520.00	\$52.00	\$19.00	\$591.00							
	Meets: 6/23-8/14.												
ONL LCT	WR-121Z-04	340647											
	S. PESZNECKER		\$520.00	\$52.00	\$19.00	\$591.00							
	Meets: 6/23-8/14.												
ONL LCT	WR-121Z-05	340648											
	S. NIZIOLEK		\$520.00	\$52.00	\$19.00	\$591.00							
	Meets: 6/23-8/14.												
HAR HYB LCT	WR-121Z-15	340653 T					10-12:35 PM						
	S. NIZIOLEK		\$520.00	\$52.00	\$19.00	\$591.00							
	Meets: 6/23-8/14.												

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	WR-122Z-01	340655 MW					10-12:35 PM						
	S. WARREN		\$520.00	\$52.00	\$19.00	\$591.00							
	Meets: 6/23-8/14.												
OC LCT	WR-122Z-02	340661 T					1-3:35 PM						
	W. DAWKINS		\$520.00	\$52.00	\$19.00	\$591.00							
	Meets: 6/23-8/14.												
ONL LCT	WR-122Z-03	340662											
	R. MURPHY		\$520.00	\$52.00	\$19.00	\$591.00							
	Meets: 6/23-8/14.												
ONL LCT	WR-122Z-04	340664											
	R. MURPHY		\$520.00	\$52.00	\$19.00	\$591.00							
	Meets: 6/23-8/14.												
HAR HYB LCT	WR-122Z-15	340673 T					6-8:35 PM						
	M. SCHUMACHER		\$520.00	\$52.00	\$19.00	\$591.00							
	Meets: 6/23-8/14.												

WR-128 INTRODUCTION TO APA STYLE & DOCUMENTATION, 1 CREDIT

Introduces American Psychological Association (APA) style and documentation, including document format, in-text citation, and References page. Includes style and documentation for narrative and academic papers. Students will work with provided sources. Recommended for pre-nursing and nursing students, allied health students, and STEM and social science students.

Prerequisites: WR-121Z with a C or better

ONL LCT	WR-128-01	340677											
	S. PESZNECKER		\$0.00	\$0.00	\$19.00	\$19.00							
	Meets: 6/23-8/14.												

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	WR-140-01	340678											
	T. DONNELLY		\$520.00	\$52.00	\$19.00	\$591.00							
	Meets: 6/23-7/18.												

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	WR-227Z-01	340680 M					1-3:35 PM						
	L. ORMANDY		\$520.00	\$52.00	\$19.00	\$591.00							
	Meets: 6/23-8/14.												
ONL LCT	WR-227Z-02	340682											
	L. ORMANDY		\$520.00	\$52.00	\$19.00	\$591.00							
	Meets: 6/23-8/14.												

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

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

Prerequisites: Placement in WRD-090

OC LCT	WRD-090-01	340685 TTH					10-12:35 PM						
	J. PONS		\$520.00	\$52.00	\$19.00	\$591.00							
	Meets: 6/23-8/14.												

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

Campus Locations:

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

Distance Education Notification:

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HYB: In-person plus online work

Other Coding Translations:

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

ESPAÑOL: Enseñado en español

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

Course No Course Title, Credits							Course No Course Title, Credits						
Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)		Time	Total	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)		Time	Total
			Tuition	Fee	Crs. Fee				Tuition	Fee	Crs. Fee		
OC LCT	WRD-098-01	340691	TTH		1-2:35 PM								
	J. PONS		\$520.00	\$52.00	\$19.00	\$591.00							
	Meets: 6/23-8/14.												
ONL LCT	WRD-098-02	340694											
	TBA		\$520.00	\$52.00	\$19.00	\$591.00							
	Meets: 6/23-8/14.												

XWR-0001 CHRYSALIS WOMEN WRITERS, 0 CREDIT

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

OC HYB LCT	XWR-0001-01	340709	W		12-1:50 PM								
	P. LICHEN		\$0.00	\$0.00	\$0.00	\$0.00							
	Meets: 6/20-9/13. This workshop will be conducted via Zoom and in-person.												

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

COMMUNITY EDUCATION

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

Strength and relaxation yoga in the park

Breathe in the fresh air and move your body with our new strength and relaxation yoga in the park classes! Offered through our community partner the Milwaukie Center, part of the North Clackamas Parks & Recreation District, these sessions blend gentle strength-building with deep relaxation — perfect for all levels.

Choose the time and location that works best for you, and enjoy a refreshing yoga session in a beautiful outdoor setting. Join us and feel the difference!

Locations and schedule

- Risley Park – Thursdays, June 26–Sept. 18, 11 a.m.–noon (No class on Aug. 28)
- North Clackamas Park – Tuesdays, June 24–Sept. 18, 6:45–7:45 p.m.
For more info or to register, visit ncprd.com



Senior Discount

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



MILWAUKIE

Milwaukie Community Center
503-794-8092 | www.ncprd.com

North Clackamas Parks and Recreation
503-794-8080, ext. 0 | www.ncprd.com

OREGON CITY

Oregon City Community Education
503-785-8520 | <https://ocsd62occe.org>

Oregon City Swimming Pool
503-657-8273 | www.ocity.org/904/Aquatics

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

TEAM OREGON

Motorcycle/Scooter Safety Training
800-545-9944 | www.team-oregon.org

CANBY

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

GLADSTONE

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

WEST LINN

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

WILSONVILLE

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

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