



Schedule



*Fall Preview
2024*

Fall term classes begin September 30 • www.clackamas.edu • Go Far, Close to Home.

INDEX

General Information

Academic Regulations	84
Adding & Dropping Classes	74
Bookstore	87
Campus Map	back page
Dates to Remember/Calendar	3
Faculty Advisors	88
Final Exam Schedule	3
Financial Aid	5
Getting Started	4
Graduation	7
Payment Options	5
Registration Information	6-7
Si usted habla español	8
Tuition & Fees	5
Veterans Education & Training Center	9
Web Registration Tips	4
Where to Call	89
Workforce Services	9

Course Listings 12-82

Adult Basic Education	12
American Sign Language	78
Anatomy & Physiology	18
Anthropology	12
Arboriculture (see Horticulture)	
Art	12
Astronomy	68
Auto Body/Collision Repair and Refinishing	13
Automotive Service Technology	15
Biology	16
Business Administration	19
Business Technology	22
Chemistry	22
College and Career Guidance	24
Communication Studies	25
Computer Science	26
Computer-Aided Drafting Technology	28
Cooperative Work Experience	28
Criminal Justice/Corrections	28
Dental Assistant	29
Digital Media Communications	30
Early Childhood Education	31
Economics	31
Education	31
Educational Focus Area	34
Electronics & Microelectronics	34
Emergency Medical Technology	35
Engineering	35
English for Speakers of Other Languages	35
English Literature/Composition	39

Environmental Science	39
Ethnic Studies	40
Family Studies	40
Fire Science (Wildland)	40
First Year Experience	41
Food & Nutrition	41
French (see World Languages)	
Gardening (see Horticulture)	
GED-General Education Development	42
General Science	42
Geographic Information Systems (GIS)	43
Geography	43
Geology	43
German (see World Languages)	
Gerontology	44
Greenhouse (see Horticulture)	
Health	44
Health and Fitness	45
Health Professions	45
High School Diploma	45
History	46
Horticulture/Arboriculture/Landscape/ Organic Farming	46
Human Services	48
Humanities	49
Industrial Maintenance Technology	49
Journalism	49
Landscape (see Horticulture)	
Library	50
Machine Tool Technology	50
Manufacturing Technology	51
Mathematics	52
Media Studies (see Digital Multimedia Communications)	
Medical Assistant	54
Microbiology	18
Microelectronics	34
Music	55
Music: Individual Lessons - Non-Music Majors	59
Music: Individual Lessons - Year 1	59
Music: Individual Lessons - Year 2	62
Nursing	64
Nursery (see Horticulture)	
Nutrition	41
Organic Farming (see Horticulture)	
Philosophy	66
Phlebotomy	66
Physical Education	67
Physics	68
Political Science	69

Psychology	69
Religion	70
Sign Language (see World Languages)	
Small Business Development Center	70
Social Science	72
Sociology	72
Spanish (see World Languages)	
Speech (see Communication Studies)	
Statistics	72
Theatre Arts	73
Water and Environment Technology	74
Welding Technology	75
Women's Studies	78
World Languages	78
Writing	79
Zoology	82

Registration Resources 6-7

Registration resources and helpful information

Financial Matters 5

Tuition and fees, payment options, financial aid, scholarships and more

Si Habla Español 8

Para más información sobre clases de inglés y otros materias servicios, ver página 35

Course Listings 12-82

Credit and non-credit courses offered this term

Faculty Advisors 88

Where to Call 89

3 Convenient Campuses

Oregon City

19600 Molalla Ave.
Oregon City, OR 97045

Wilsonville

29353 SW Town Center Loop E.
Wilsonville, OR 97070

Harmony

7738 SE Harmony Road
Milwaukie, OR 97222

Non-Discrimination

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



IMPORTANT DATES TO REMEMBER

CLASS START/END DATES + FINANCIAL DEADLINES *	FALL TERM 2024	WINTER TERM 2025	SPRING TERM 2025
Financial aid: All required CCC financial aid documentation due to ensure funding for term	June 24	Sept. 23	Jan. 6
Registration begins	May 20	Nov. 12	Feb. 24
Classes begin	Sept. 30	Jan. 6	March 31
Last day to add classes without instructor consent	Instructor consent required once course begins		
Last day to drop a class with a refund (see p. 5 for more info)	Oct. 13	Jan. 19	April 13
Last day to drop classes and receive a "W" automatically	Nov. 22	Feb. 28	May 23
Last day to submit petition for graduation	Nov. 8	Feb. 14	April 9
Last day to change grading option	Dec. 6	Mar. 14	June 6
Account balance due: \$100 non-payment fee applied if not paid	Nov. 8	Feb. 14	April 9
Final week	Dec. 9-13	March 17-21	June 9-13
Last day of term	Dec. 14	March 22	June 14
Commencement: GED & Adult High School Diploma	June 13, 2025		
Commencement: College Certificate & Degree	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
FALL TERM: Nov. 11 Veterans Day, Nov. 28 & 29 Thanksgiving, Dec. 24 & 25 Winter Holiday
WINTER TERM: Jan. 1 New Years Day, Jan. 20 MLK Jr Day, Feb. 17 Presidents Day
SPRING TERM: May 26 Memorial Day

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



GETTING STARTED AT CCC

New Students

If you are a new student with no previous CCC credits, follow these 6 steps to get started. For more information visit www.clackamas.edu/gettingstarted.

1 APPLY TO CCC. Visit www.clackamas.edu/apply. Once you receive your welcome email, log in to Navigate to review your to-do list, which will walk you through your next steps. *TIP: Log in to your myClackamas account frequently—it is CCC's primary means of communicating with students!

2 APPLY FOR FINANCIAL AID AND SCHOLARSHIPS (IF APPLICABLE). U.S. Citizens and permanent residents: Apply at www.fafsa.gov. Undocumented Oregon residents: Complete the ORSAA at www.oregonstudentaid.gov. The ORSAA is for undocumented Oregon students, including students who have DACA (Deferred Action for Childhood Arrivals) status. Apply for CCC Foundation Scholarships at www.clackamas.edu/scholarships.

3 SUBMIT PREVIOUS COLLEGE TRANSCRIPTS (IF APPLICABLE). CCC Degree/Certificate Seeking: If you are transferring to CCC from a regionally-accredited U.S. institution, or if you have AP, CLEP, IB or DSST scores, submit your official transcripts to Graduation Services. Non-Degree/ Certificate Seeking: If a course requisite waiver is needed, submit unofficial transcripts to Advising & Career Services. Visit www.clackamas.edu/transferring-to-ccc for details.

4 DETERMINE PLACEMENT. Math and writing placements must be completed prior to registration. Visit www.clackamas.edu/pass for steps to complete your placement assessment.

5 COMPLETE NEW STUDENT ORIENTATION. Available online via your myClackamas account, your orientation will familiarize you with CCC's resources, degree and certificate programs, student life, and more. Orientation must be completed before registering for classes.

6 REGISTER FOR CLASSES. For help choosing and registering for your classes, visit our [Advising page](#) to schedule an appointment.



MORE QUESTIONS? Our Admissions Center is here to help you get started at CCC. Call: 503-594-3284. Email: welcome@clackamas.edu



Returning Students

Returning CCC student? Start here.

If you have taken classes or workshops at CCC within the last two years there's no need to reapply for admission! You're ready to register for classes online through myClackamas.

1 NOTIFY ENROLLMENT SERVICES if you've changed your major/program of study, address or phone number by emailing registration@clackamas.edu or visiting the Enrollment Services Center at any of our three campuses.

2 CLEAR OUTSTANDING DEBT or prior term balances at any CCC Enrollment Services Center.

3 REVIEW YOUR EDUCATION PLAN with an academic advisor.

4 REGISTER FOR CLASSES online through myClackamas — <http://my.clackamas.edu>. You can also register by mail, fax or in person at any of our three campuses. Registration forms are available at www.clackamas.edu/forms.

5 PAY YOUR TUITION AND FEES online or in person. Tuition rates, payment and important dates can be found on the following page.

Como Inscribirse
www.clackamas.edu/espanol

How much will I owe? Tuition and Fees

Tuition and fee rates are subject to change without prior notice.



PAYING FOR CLASSES AT CCC

TUITION TYPE	RATE	COMMENT
In-state	\$126 per credit	Applies to U.S. citizens or immigrants with a residency status (90 days at that address prior to the start of the term) in Oregon, Idaho, California, Nevada and Washington.
Out-of-state	\$305 per credit	Applies to international students and students residing in states which do not border Oregon.
FEE TYPE	RATE	COMMENT
General Student and Technology Fee	\$13 per credit	Supports many CCC student activities including athletics, child care, instructional technology and student government.
College Services Fee	\$30 per term (non-refundable)	Non-refundable. Applies to credit courses only. The College Services Fee covers the cost of various services including graduation, parking, shuttle, testing and transcripts.
Non-Payment Fee	\$100	Applied after the sixth week of the term if a balance is owed to the college.
Non-Refundable Third-Party Billing Fee	\$15	Assessed on any student account where CCC is billing an outside business/organization for tuition and charges.
Returned Bank Item	\$25 each item	Fee for checks returned for nonsufficient funds.
Course Fees	Varies	Certain classes have special fees in addition to tuition and the general fee. These are listed in the "Course Fee" column in the credit course listing in the Schedule of Classes.

Credit for prior learning

TYPE	RATE
Challenge Exam	\$50 flat fee plus \$25 per credit
Portfolio	\$50 flat fee plus ½ of the current tuition per credit
Other (Non-Portfolio, Non-Challenge Exam)	\$50 flat fee plus ½ of the current tuition per credit

How do I pay?

Pay Now: Payment is due at the time of registration. You can pay in person with cash or a local, bank-imprinted check, for the amount due. You can make credit card payments in person or online using Visa, MasterCard, Discover or American Express.

Deferred Payment: Account balances must be paid by Nov. 1 or you will be charged a non-payment fee of \$100 and a hold will be put on your account that will prevent future registration.

How do I get a refund?

CCC provides full refunds if you drop your classes on time. We do not provide partial refunds. To receive a full refund YOU must drop your classes:

- During the first two weeks of the class for classes meeting five weeks or more
- During the first week of the class for classes meeting three-four weeks
- Before the class begins for classes meeting two weeks or less

Financial Aid: How do I apply?

1. Apply to CCC.
2. Complete your FAFSA or ORSAA application:
 - U.S. Citizens and permanent residents: Apply at www.fafsa.gov.
 - Undocumented Oregon residents: Complete the ORSAA at www.oregonstudentaid.gov/fafsa-orsaa. The ORSAA is for undocumented Oregon students, including students who have DACA (Deferred Action for Childhood Arrivals) status.
3. Check your email and Self-Service in myClackamas.

Financial Aid questions?

Email us at finaid@clackamas.edu



Want your refund deposited directly into your bank account?

Click on Payment Information in myClackamas then myProfile. Enter your bank account information. This includes financial aid and emergency loan checks. To view the complete refund policy, please go to www.clackamas.edu.

Money, registration and myClackamas – WHAT YOU NEED TO KNOW!

College Services Fee

A non-refundable \$30 per term fee will be applied to students taking credit courses. The College Services Fee covers the cost of various services including graduation, parking, shuttle, testing and transcripts. The fee is applied at the time of registration for students registering for one or more credits.

Refunds

If you stop going to class and you don't officially drop the classes from your schedule, you will be held academically and financially responsible.

See p.7 for important information about Financial Aid and refund deadlines.

myClackamas

myClackamas is your portal to all things CCC. This secure site allows you to check your CCC assigned email, register and pay for classes, access financial aid documents and more.

After you are admitted to CCC, an email with your new CCC student email address and instructions for logging into myClackamas will be sent to the secondary email account (gmail, yahoo, etc.) you provided on your admission application.

If you applied for admission and:

- Don't know your CCC email address, go to myClackamas (<https://my.clackamas.edu>) and choose "Forgot your email address?"
- Don't know your password, go to myClackamas (<https://my.clackamas.edu>) and choose "Forgot Password?" Follow the directions provided.
- Still need help with this process, go to myClackamas (<https://my.clackamas.edu>) and click the help button or call 503-594-6074.

If you are a current CCC student and:

- Don't have a CCC email address:
 - Contact Enrollment Services at registration@clackamas.edu and provide a secondary email account (gmail, yahoo, etc.). An email with instructions for logging into myClackamas will be sent to that account.
- Are experiencing problems logging into your myClackamas account:
 - Contact Enrollment Services at 503-594-6074.

NOTE: Your CCC email account is the primary method of communication between you and the college. Be sure to check your email at least twice a week through myClackamas.

Registration

Registration is based on the number of completed credits at CCC (credits completed at other colleges are not counted for registration purposes). Courses in progress during the current term do not count toward this total. Registration is done online (myClackamas), in person or by mail/fax. Please visit <https://www.clackamas.edu/admissions-financial-aid/getting-started> to make sure you have completed the getting started steps to be able to register.

Registration times:

CREDITS	DATE	TIME
Veterans	Monday, May 20, 2024	Noon
80+	Tuesday, May 21, 2024	8 a.m.
60-79	Tuesday, May 21, 2024	Noon
40-59	Wednesday, May 22, 2024	8 a.m.
30-39	Wednesday, May 22, 2024	Noon
20-29	Thursday, May 23, 2024	8 a.m.
6-19	Thursday, May 23, 2024	Noon
1-5	Friday, May 24, 2024	8 a.m.
Open Registration	Friday, May 24, 2024	Noon

Note: If you miss your registration window, you are able to register any time after that.

2024-25 CHANGES:

- **In-state tuition:** Increased by \$5 resulting in a \$126 per credit rate
- **Out-of-state tuition:** Increased by \$12 resulting in a \$305 per credit rate

Don't forget!

- Visit www.clackamas.edu/im_registered_whats_next.aspx for **your next steps after registration!**
- Get your **student ID card** at any of our three campuses.
- **Veterans and Military Dependents:** Visit www.clackamas.edu/Veterans for VA educational benefits information.
- Information about **dates, policies and academic regulations** is available at www.clackamas.edu or the Enrollment Services Center at any of our three campuses.

REGISTRATION AND IMPORTANT INFORMATION

Academic Calendar – Clackamas Community College operates on the quarter system. Each of our terms are eleven weeks in length with many courses being offered in a condensed and/or standard term format. Be sure to check the *Schedule of Classes* for individual class meeting times.

Corequisite – A corequisite is a second, related course in which a student must be simultaneously enrolled in addition to the primary course.

Course Prerequisites – Some CCC courses have prerequisite requirements. You will be required to meet these prior to enrolling.

Grades – Grade options generally include A, B, C, D, F, P/N (Pass, No Pass) or X (Audit). Be sure to select the grade option you want at the time of registration by selecting: Register Pass/Fail for P/N or Audit for all classes you wish to audit.

Registration and Transcript Holds – Students who have not met their financial obligations to the college may have restrictions placed on their ability to register for future terms and/or have official transcripts released.

Ordering Transcripts – Official transcripts (record of your classes, grades earned and degrees awarded) are available upon request. Unofficial transcripts are available via myClackamas. Order transcripts online via www.parchment.com. For more information, call our transcript request line at 503-594-6074.

Student Rights & Responsibilities – When you enroll at Clackamas Community College you assume certain rights and responsibilities as a student that relate to your educational record, academic performance and individual conduct. These are stated in the Student Handbook—www.clackamas.edu/student-rights.

Student Photo ID Cards – Cards are available at the Enrollment Services Center and are necessary for library checkout, access to computer/tutorial labs and admission to college events. Picture ID and current enrollment are required. There is a \$10 replacement fee for stolen or lost ID cards.



Cougar Alert!

GRADUATION

Apply to Graduate

In order to be evaluated for a certificate or degree from CCC, students must fill out a "Graduation Application" and submit it to Graduation Services at the Oregon City campus.

Please refer to graduation information via the web for filing deadlines. Questions regarding this process may be directed to 503-594-6651 or gradservices@clackamas.edu.

Graduation Ceremonies

The GED/Adult High School Diploma graduation ceremony will take place Friday, June 13, 2025, and the certificate and degree graduation ceremony will be held Friday evening, June 13, 2025. Information for both ceremonies will be available at www.clackamas.edu/graduation in early spring. For questions related to the ceremony, contact GradCeremony@clackamas.edu.

SI USTED HABLA ESPAÑOL

Información en español

Visite el sitio de web www.clackamas.edu/espanol para más información.

¡Bienvenido a Clackamas Community College! Clackamas ofrece una gran variedad de oportunidades para todos. Ofrecemos más de 90 programas de carreras técnicas, programas para estudiantes internacionales, clases de inglés, y oportunidades para recibir su certificado de preparatoria GED.

En Clackamas Community College, creemos que todos tienen derecho a desarrollar todo su potencial. Les damos la bienvenida a todos, sin importar quiénes sean o de dónde son. Sus contribuciones son las que hacen de Clackamas un colegio comunitario. Estamos contentos de que esta aquí.

Clases de ESOL (Inglés para hablantes de otras lenguas)

- Las clases de ESOL son para todos que desean mejorar sus habilidades de inglés
- Ofrecemos clases de todos niveles
- Los precios varían entre \$30 y \$70 por clase por un trimestre
- Estudiantes deben tener al menos 16 años de edad

Para más información y para registrarse, comuníquese con la oficina de ESOL al 503-594-3234.

GED en español

Instrucción del desarrollo de habilidades básicas (GED) ofrecida en español. Se aplica un examen de diagnóstico para determinar las necesidades académicas del alumno.

Inscripciones abiertas todo el tiempo, se ofrece en el colegio principal, Harmony Center y Canby.

Para más información y para registrarse para la clase, llame a Camilo Sanchez al 503-594-3029

Ayuda Financiera

Ayuda financiera está disponible para ayudarle alcanzar sus metas educativas. La Oficina de Ayuda Financiera y Becas de CCC brinda acceso a becas, trabajo-estudiantil y préstamos para ayudarle cubrir los costos de la escuela.

Para más información, llame al 503-594-6082

Servicios de Workforce

WorkSource Clackamas ofrece servicios gratuitos que pueden ayudar con:

- Actualizar tus habilidades
- Mejorar tus técnicas en la búsqueda de empleo
- Acceso a empleos en alta demanda y crecimiento

Para más información, llame al 503-594-6246

Para tomar clases de crédito

Si quiere tomar clases para recibir crédito, un consejero de admisiones le podrá ayudar en tomar los pasos adecuados y necesarios para registrarse en Clackamas Community College.

¡Nuestro Centro de Admisiones está aquí para ayudarle a comenzar! Llame al 503-594-3284

VETERANS SERVICES

Veterans Education and Training Center

CCC Oregon City campus, Community Center Room 100
503-594-3438

vetinfo@clackamas.edu

www.clackamas.edu/veterans

The Veteran Education and Training Center is a service of Clackamas Community College dedicated in gratitude to providing hospitality, advocacy, and the highest quality of service to all Veterans. The VET Center's staff goal is to support every Veteran's transition from warrior to student to graduate and finally to working professional. The VET Center will ensure every individual Veteran's unique needs are met. Clackamas Community College recognizes and honors the Military Veterans of our community and their families. Please allow us the honor and privilege to serve you!

The college provides a wide range of services for Veterans which include:

- Information about benefits
- Education and career information
- Assistance with getting started and being successful
- Referrals to additional resources
- Assistance with necessary paperwork
- VA enrollment and progress certification
- Student Veterans Club
- Veterans Events
- Transition Assistance Workshops
- Veterans Book Share
- Veterans Text Book Grants
- Military Families Scholarship Endowment
- VA Work study

The regulations and requirements associated with providing and receiving the variety of veteran benefits are numerous and complex. We can help you understand your benefits and the process of accessing them. Please come see us soon and often to be informed and ensure you remain in compliance.

WORKFORCE SERVICES

Skill up for jobs of the future! WorkSource Clackamas is preparing Oregonians for jobs in health care, manufacturing, high tech, green technologies and more!



Job Search and Training Help

Are you looking for a job?

Do you need to upgrade your skills to get a better job?

Interested in working and learning on the job?

WorkSource Clackamas has no-cost career advancement services which can:

- Help you update your skills
- Sharpen your job search expertise
- Access jobs in high-growth careers

Take the next step! Contact our Career Specialists to learn more about our incredible career workshops and services. Contact us at 503-594-6246 or visit www.clackamasworkforce.org.

These programs are funded in whole or in part through the U.S. Department of Labor and the State of Oregon through Clackamas Workforce Partnership.

Consult the experts!

NO-COST CAREER WORKSHOPS AT WORKSOURCE CLACKAMAS

506 High Street, Oregon City 97045

Our Career Specialists are experts in job search strategies. Join a workshop to practice innovative techniques to find employers, develop a resume, improve networking, interview better and improve your job search.

Visit www.clackamasworkforce.org or call to learn more about the NO COST workshops. Call 971-673-6400. Reservations required.

Building skills and growing businesses!

Sponsored by the Clackamas Workforce Partnership
www.clackamasworkforce.org.

WorkSource Oregon is an equal opportunity employer/program.
WorkSource Oregon es un programa/empleador que respeta la igualdad de oportunidades.

ONLINE LEARNING

In many ways, learning online is similar to learning in a classroom. Your instructor will provide quality readings, exercises, assignments, and quizzes. And just like an in-person class, what you get out of it is a direct result of how much you put into it. So... expect to spend the same amount of time and energy on an online class as you would in an in-person course.

Clackamas Community College (CCC) uses Moodle for its online course delivery. So... you'll see a Moodle 101 orientation course under My Courses in the **red** bar when you log in. This self-guided orientation will prepare you for online learning and make sure you have the skills and resources you'll need to succeed in your online course. It also includes student essentials, like tips for successful time management and home workspaces.

New to Online Learning?

The Online Learning & Educational Technology (OLET) Team has collected the following resources on our website (online.clackamas.edu) to assist you:

- CCC [Schedule of Classes](#)
- [Are you prepared to take an online class?](#) Q&A
- [Recommended technology and software](#)
- [Assistive technology](#)

Get Started in Online Learning

Before you begin, we recommend that you visit online.clackamas.edu to review the answers to these questions:

- [How do I find my course?](#)
- [How can I learn more about Moodle, access my classes, and be prepared for online learning?](#)
- [Where do I find Moodle Help?](#)
- [How do I participate synchronously via a Zoom meeting in my course?](#)

Still need help?

During regular business hours, visit the [Cougar Connect Tech Help Desk](#), call 503-594-6632, or email cougarconnect@clackamas.edu.

For after hours, weekend, or bilingual support (English/ Español), visit our [extended support team](#) (find them at online.clackamas.edu > Students > Moodle Help).

ONLINE COURSES

Online (ONL) courses do not have specific days or times for participation but some instructors **may schedule optional virtual meetings** and office hours. These courses have been intentionally developed to meet online course design standards. Online courses are identified in the *Schedule of Classes* by the term **ONLINE** and also by the icon **ONL**.

REMOTE COURSES

Remote (REM) courses are held online at **specific days and times** and require students to use online tools, such as Zoom, in order to participate. Check the *Schedule of Classes* for the specific meeting days and times. Remote courses are identified in the schedule by the term **REMOTE** and also by the icon **REM**.

HYBRID COURSES

Hybrid (HYB) courses are completed both in-person and online. For example, students might attend a weekly lecture on-campus, and then take part in a class discussion online. The amount of time spent on-campus varies between courses. Check the *Schedule of Classes* for specific meeting days and times, as well as campus location information. Hybrid courses are identified in the schedule by the term **HYBRID** and also the icon **HYB**.

ALL COURSES

Additionally, you'll want to check the *Schedule of Classes* (or with your instructor) about required software, special course materials, course requirements, or prerequisites.



CLACKAMAS IN YOUR COMMUNITY

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

Along with the Oregon City campus, Clackamas Community College has two additional campuses to serve the needs of students in other parts of the district. The college's Harmony campus is a full service campus in the North Clackamas area (near Clackamas Town Center). The Wilsonville campus is full service as well, and is easily accessible from I-5. In addition, there are many CCC courses available in other communities throughout the district.

CCC at Harmony Community Campus

7738 SE Harmony Road, Milwaukie, OR 97222

CCC Wilsonville Campus

29353 SW Town Center Loop East, Wilsonville, OR 97070

THIS PAGE WILL BE UPDATED FOR FALL TERM IN AUGUST

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

COURSE LISTING

Credit and non-credit Courses offered Fall 2024

Adult Basic Education (ABE)

ABE-012 ADULT BASIC EDUCATION, 0 CREDIT

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

OC LCT	ABE-012-07	333458	MTWTH	10-11:50 AM		
	D. GREEN	\$0.00	\$0.00	\$55.00	\$55.00	
	Required: Student Petition.					

Anthropology

ANT-101 PHYSICAL ANTHROPOLOGY, 4 CREDITS

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

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

OC	ANT-101-01	333461	TTH	1-2:50 PM		
	K. BACA	\$504.00	\$52.00	\$0.00	\$556.00	
	Online textbook provided first day of class.					

ANT-102 ARCHAEOLOGY & PREHISTORY, 4 CREDITS

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

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

OC	ANT-102-01	333464	TTH	10-11:50 AM		
	K. BACA	\$504.00	\$52.00	\$0.00	\$556.00	
	Online textbook provided first day of class.					
ONL	ANT-102-02	337614				
	K. BACA	\$504.00	\$52.00	\$0.00	\$556.00	
	Online textbook provided first day of class.					

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	ANT-103-01	333467				
	K. BACA	\$504.00	\$52.00	\$0.00	\$556.00	
	Online textbook provided first day of class.					

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

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

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

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

Corequisites: CWE-281

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

OC	ANT-280-01	333471				
	K. BACA	\$756.00	\$78.00	\$45.00	\$879.00V	
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

Art

ART-100A JEWELRY MAKING TECHNIQUES, 1 CREDIT

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

OC	ART-100A-01	337612	T	6-8:50 PM		
	J. IJIMA	\$126.00	\$13.00	\$125.00	\$264.00	
	Meets: 10/15-11/26. Focus: Chain Making.					

ART-101 ART APPRECIATION, 3 CREDITS

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

ONL LCT	ART-101-01	333584				
	C. SIEGFRIED	\$378.00	\$39.00	\$6.00	\$423.00	

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

This course acquaints students with the vocabulary of composition and the elements and principles of design and color theory. Students focus on the development of creative compositions and analytical skills through projects and critiques and examine historical and contemporary issues and ideas related to visual composition.

OC LCT	ART-115-01	333587	MW	1-3:50 PM		
	C. SIEGFRIED	\$504.00	\$52.00	\$80.00	\$636.00	
OC LCT	ART-115-02	333589	TTH	1-3:50 PM		
	R. KALMAN	\$504.00	\$52.00	\$80.00	\$636.00	

ART-119 TIME-BASED ART, 4 CREDITS

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

ONL LCT	ART-119-01	333591				
	K. SIMMONS	\$504.00	\$52.00	\$80.00	\$636.00	
	Required: Pick up supplies on campus 9/27, 11:00-12:00pm.					

ART-131 INTRODUCTION TO DRAWING, 4 CREDITS

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

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
ONL LCT	ART-131-01 333596		A. SCHROER			\$504.00	\$52.00	\$80.00		\$636.00
	Required: Pick up supplies on campus 10/1, 11:00-1:00pm.									
OC LCT	ART-131-02 333600 MW		R. KALMAN			\$504.00	\$52.00	\$80.00		\$636.00
OC LCT	ART-131-03 333602 MW		R. KALMAN			\$504.00	\$52.00	\$80.00		\$636.00

ART-204 HISTORY OF ART/ANCIENT THROUGH MEDIEVAL, 4 CREDITS

Examines art, cultures, and history from the Paleolithic era through the early Medieval eras. This is a broad overview of art history that promotes an understanding of art and its history through readings, discussion, papers and exams.

Recommended Prerequisites: WR-121Z

ONL LCT	ART-204-01 333147		J. SIMONE			\$504.00	\$52.00	\$21.00		\$577.00
---------	--------------------------	--	-----------	--	--	----------	---------	---------	--	----------

ART-250 CERAMICS/BEGINNING, 4 CREDITS

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

OC LCT	ART-250-01 333616 TTH		N. BRODNICKI			\$504.00	\$52.00	\$79.00		\$635.00
OC LCT	ART-250-02 333619 TTH		N. BRODNICKI			\$504.00	\$52.00	\$79.00		\$635.00
OC LCT	ART-250-03 333623 TTH		N. WARRENS			\$504.00	\$52.00	\$79.00		\$635.00

ART-253 CERAMICS/INTERMEDIATE, 4 CREDITS

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

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

OC LCT	ART-253-01 333626 TTH		N. BRODNICKI			\$504.00	\$52.00	\$79.00		\$635.00
OC LCT	ART-253-02 333628 TTH		N. BRODNICKI			\$504.00	\$52.00	\$79.00		\$635.00
OC LCT	ART-253-03 333631 TTH		N. WARRENS			\$504.00	\$52.00	\$79.00		\$635.00

ART-257 METALSMITHING/JEWELRY, 4 CREDITS

This course examines basic techniques in metalsmithing and jewelry-making. Students will learn basic techniques and processes of metalsmithing such as sawing, cold connection, soldering, metal inlay, fabrication, forming, surface treatments and casting. The focus of this class will be placed on creating forms for body adornment. Critiques, discussions and presentations are included in this course.

OC LCT	ART-257-01 333633 TTH		J. IJIMA			\$504.00	\$52.00	\$80.00		\$636.00
--------	------------------------------	--	----------	--	--	----------	---------	---------	--	----------

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

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

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

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

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
Required: Access to a digital camera with adjustable exposure controls										
OC LCT	ART-262-01 333637 TTH		D. OLSEN			\$504.00	\$52.00	\$80.00		\$636.00
ONL LCT	ART-262-02 333644		S. ELIOT			\$504.00	\$52.00	\$80.00		\$636.00
	Adobe Photoshop is used.									

ART-281 PAINTING: STILL LIFE/BEGINNING, 4 CREDITS

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

Prerequisites: ART-131 or Student Petition

OC LCT	ART-281-01 333647 F		D. ANDERSEN			\$504.00	\$52.00	\$95.00		\$651.00
--------	----------------------------	--	-------------	--	--	----------	---------	---------	--	----------

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

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

Prerequisites: ART-281 or Student Petition

OC LCT	ART-284-01 333650 F		D. ANDERSEN			\$504.00	\$52.00	\$95.00		\$651.00
--------	----------------------------	--	-------------	--	--	----------	---------	---------	--	----------

ART-291 SCULPTURE, 4 CREDITS

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

OC LCT	ART-291-01 333652 MW		K. SIMMONS			\$504.00	\$52.00	\$80.00		\$636.00
--------	-----------------------------	--	------------	--	--	----------	---------	---------	--	----------

Auto Body/Collision Repair and Refinishing

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

AB-101 AUTO RESTORATION, 3 CREDITS

Designed for students interested in auto body repair and painting their own vehicles. Includes dent removal, panel replacement, welding and painting. May be repeated for up to 12 credits.

OC LCT	AB-101-01 333501 S		A. DANIEK			\$378.00	\$39.00	\$175.00		\$592.00
	Meets: 10/5, 10/19, 11/2, 11/16, & 12/7.									
OC LCT	AB-101-02 333503 S		P. NESBITT			\$378.00	\$39.00	\$175.00		\$592.00
	Meets: 10/12, 10/26, 11/9, 11/23 & 12/14.									

AB-105 STREET ROD CONSTRUCTION TECHNIQUES, 3 CREDITS

In this course, students will learn panel forming, welding, basic body work and repair of individual projects. Includes shop safety, chemical hazard safety, proper and safe use of tools, basic metal work and finishing, and paint preparation and application.

OC LCT	AB-105-01 333512 THF		F. DAVIS			\$378.00	\$39.00	\$175.00		\$592.00
--------	-----------------------------	--	----------	--	--	----------	---------	----------	--	----------

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course Listing

2024/FA

Course No Course Title, Credits							Course No Course Title, Credits							
Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Tuition	Fee	Total	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Tuition	Fee	Crs. Fee	Total
Instructor							Instructor							
AB-112 COLLISION REPAIR WELDING I, 2 CREDITS							OC LCT AB-224-01 333524 MT 7-12:20 PM							
This class focuses on auto collision damage repair. Emphasis is on Metal Inert Gas (MIG), Gas Metal Arc Welding (GMAW), welding on light gauge metals, and oxygen-acetylene cutting.							M. HOUSE \$756.00 \$78.00 \$337.00 \$1,171.00							
OC LCT AB-112-01 333513 F 8-12:20 PM							AB-226 COLLISION REPAIR V/ADVANCED STRUCTURAL, 6 CREDITS							
C. DAHLSRUD- \$252.00 \$26.00 \$170.00 \$448.00							RIVERA							
AB-113 COLLISION REPAIR I/NONSTRUCTURAL, 6 CREDITS							Uses the latest high quality, productive techniques and equipment to repair vehicles to pre-collision condition. Covers the refined collision repair processes for today's workplace.							
Provides basic instruction in collision repairs, including shop safety and chemical hazard safety; proper and safe use of tools; basic metal work and finishing; use of filler; door removal, replacement and alignment; and replacement and alignment of bolt-on front end sheet metal parts.							Prerequisites: AB-224							
Prerequisite or Corequisite: AB-112 and ABR-125							OC LCT AB-226-01 333525 MT 7-12:20 PM							
OC LCT AB-113-01 333515 MT 7-12:20 PM							M. HOUSE \$756.00 \$78.00 \$337.00 \$1,171.00							
M. HOUSE \$756.00 \$78.00 \$337.00 \$1,171.00							AB-235 COLLISION REPAIR WELDING III, 2 CREDITS							
AB-123 COLLISION REPAIR WELDING II, 2 CREDITS							Aluminum welding for collision damage repair. Gas Metal Arc Welding (GMAW) and Gas Tungsten Arc Welding (GTAW) processes are learned, along with related weld techniques and equipment/safety procedures.							
Training in light gauge metal repair: Gas Metal Arc Welding (GMAW), Plasma Arc Cutting (PAC), Squeeze Type Resistance Spot Welding (ST-RSW), and other advanced welding techniques specific to collision damage repair.							Prerequisites: AB-123							
Prerequisites: AB-112							OC LCT AB-235-01 333526 F 8-12:20 PM							
OC LCT AB-123-01 333518 F 8-12:20 PM							C. DAHLSRUD- \$252.00 \$26.00 \$170.00 \$448.00							
C. DAHLSRUD- \$252.00 \$26.00 \$158.00 \$436.00							RIVERA							
AB-133 COLLISION REPAIR II/STRUCTURAL, 6 CREDITS							AB-280 COLLISION REPAIR/CWE, 2-6 CREDITS (VAR)							
Repair major body damage using modern frame repair equipment. Includes repair and replacement of bolt-on, bonded, and welded components using the latest technology. Includes introduction to computerized measuring and damage analysis.							Cooperative work experience. Work-based learning experience in an auto body repair shop. Required: Student Petition.							
Prerequisites: AB-113							Corequisites: CWE-281							
OC LCT AB-133-01 333519 MT 7-12:20 PM							OC LCT AB-280-01 333528							
M. HOUSE \$756.00 \$78.00 \$337.00 \$1,171.00							M. HOUSE \$756.00 \$78.00 \$45.00 \$879.00V							
AB-149 COLLISION REPAIR ESTIMATING I, 2 CREDITS							Required: Student Petition. Corequisite: Take the following CWE-281-06.							
This course provides instruction in procedure and terminology used in the collision repair estimating field. Body part component identification and the effects of a collision on a vehicle will be studied.							ABR-125 COLLISION REPAIR/REFINISHING I, 6 CREDITS							
OC LCT AB-149-01 333520 M 1:30 -3:50 PM							Covers shop safety, fire prevention, selection and use of paint products, abrasives, fillers, basic application of primers, sealers, and top coats.							
A. YAGER-ROUNDS \$252.00 \$26.00 \$120.00 \$398.00							Prerequisite or Corequisite: AB-112 and AB-113							
AB-222 COLLISION REPAIR III/ADVANCED STRUCTURAL, 6 CREDITS							OC LCT ABR-125-01 333531 WTH 7-12:20 PM							
Major collision repair with a systems approach: frame and structure, panels, suspension and brakes, electrical and cooling systems. Emphasis on frame and unibody repair, replacement of welded body panels, and diagnosis and repair of related damage.							M. HOUSE \$756.00 \$78.00 \$337.00 \$1,171.00							
Prerequisites: AB-133							ABR-127 COLLISION REPAIR/REFINISHING II, 6 CREDITS							
OC LCT AB-222-01 333522 MT 7-12:20 PM							Application of solvent and waterborne finishes, including spot repairs, color matching, complete refinishing, and problem solving. Introduction to computerized color information retrieval and mixing.							
M. HOUSE \$756.00 \$78.00 \$337.00 \$1,171.00							Prerequisites: ABR-125							
AB-224 COLLISION REPAIR IV/ADVANCED STRUCTURAL, 6 CREDITS							OC LCT ABR-127-01 333533 WTH 7-12:20 PM							
Advanced frame and Unibody repair procedures. Electronic measurement and dimensioning, repair documentation, brakes, suspension, and alignment as they relate to collision repair.							M. HOUSE \$756.00 \$78.00 \$337.00 \$1,171.00							
Prerequisites: AB-222							ABR-129 COLLISION REPAIR/REFINISHING III, 6 CREDITS							
OC LCT AB-224-01 333524 MT 7-12:20 PM							Application of solvent and waterborne basecoats and tri-coats and urethane topcoats, using both foreign and domestic refinish systems. Includes complete refinishing, spot and panel painting, color matching and problem solving.							
M. HOUSE \$756.00 \$78.00 \$337.00 \$1,171.00							Prerequisites: ABR-127							
AB-226 COLLISION REPAIR V/ADVANCED STRUCTURAL, 6 CREDITS							OC LCT ABR-129-01 333535 WTH 7-12:20 PM							
Uses the latest high quality, productive techniques and equipment to repair vehicles to pre-collision condition. Covers the refined collision repair processes for today's workplace.							M. HOUSE \$756.00 \$78.00 \$337.00 \$1,171.00							
Prerequisites: AB-224							ABR-225 PRODUCTION SHOP TECHNIQUES, 6 CREDITS							
OC LCT AB-226-01 333525 MT 7-12:20 PM							Designed for students who wish to gain additional hands-on experience in refinishing, using the most up-to-date methods and materials.							
M. HOUSE \$756.00 \$78.00 \$337.00 \$1,171.00							Prerequisites: ABR-129							
AB-235 COLLISION REPAIR WELDING III, 2 CREDITS							OC LCT ABR-225-01 333536 WTH 7-12:20 PM							
Aluminum welding for collision damage repair. Gas Metal Arc Welding (GMAW) and Gas Tungsten Arc Welding (GTAW) processes are learned, along with related weld techniques and equipment/safety procedures.							M. HOUSE \$756.00 \$78.00 \$337.00 \$1,171.00							
Prerequisites: AB-123							ABR-226 COLLISION REPAIR/CWE, 2-6 CREDITS (VAR)							
OC LCT AB-235-01 333526 F 8-12:20 PM							Cooperative work experience. Work-based learning experience in an auto body repair shop. Required: Student Petition.							
C. DAHLSRUD- \$252.00 \$26.00 \$170.00 \$448.00							Corequisites: CWE-281							
RIVERA							OC LCT ABR-226-01 333537 WTH 7-12:20 PM							
AB-280 COLLISION REPAIR/CWE, 2-6 CREDITS (VAR)							M. HOUSE \$756.00 \$78.00 \$337.00 \$1,171.00							
Cooperative work experience. Work-based learning experience in an auto body repair shop. Required: Student Petition.							ABR-227 COLLISION REPAIR/REFINISHING III, 6 CREDITS							
Corequisites: CWE-281							Application of solvent and waterborne basecoats and tri-coats and urethane topcoats, using both foreign and domestic refinish systems. Includes complete refinishing, spot and panel painting, color matching and problem solving.							
OC LCT AB-280-01 333528							Prerequisites: ABR-127							
M. HOUSE \$756.00 \$78.00 \$45.00 \$879.00V							OC LCT ABR-227-01 333538 WTH 7-12:20 PM							
Required: Student Petition. Corequisite: Take the following CWE-281-06.							M. HOUSE \$756.00 \$78.00 \$337.00 \$1,171.00							
ABR-125 COLLISION REPAIR/REFINISHING I, 6 CREDITS							ABR-228 COLLISION REPAIR/CWE, 2-6 CREDITS (VAR)							
Covers shop safety, fire prevention, selection and use of paint products, abrasives, fillers, basic application of primers, sealers, and top coats.							Cooperative work experience. Work-based learning experience in an auto body repair shop. Required: Student Petition.							
Prerequisite or Corequisite: AB-112 and AB-113							Corequisites: CWE-281							
OC LCT ABR-125-01 333531 WTH 7-12:20 PM							OC LCT ABR-228-01 333539 WTH 7-12:20 PM							
M. HOUSE \$756.00 \$78.00 \$337.00 \$1,171.00							M. HOUSE \$756.00 \$78.00 \$337.00 \$1,171.00							
ABR-127 COLLISION REPAIR/REFINISHING II, 6 CREDITS							ABR-229 COLLISION REPAIR/CWE, 2-6 CREDITS (VAR)							
Application of solvent and waterborne finishes, including spot repairs, color matching, complete refinishing, and problem solving. Introduction to computerized color information retrieval and mixing.							Cooperative work experience. Work-based learning experience in an auto body repair shop. Required: Student Petition.							
Prerequisites: ABR-125							Corequisites: CWE-281							
OC LCT ABR-127-01 333533 WTH 7-12:20 PM							OC LCT ABR-229-01 333540 WTH 7-12:20 PM							
M. HOUSE \$756.00 \$78.00 \$337.00 \$1,171.00							M. HOUSE \$756.00 \$78.00 \$337.00 \$1,171.00							
ABR-129 COLLISION REPAIR/REFINISHING III, 6 CREDITS							ABR-230 COLLISION REPAIR/CWE, 2-6 CREDITS (VAR)							
Application of solvent and waterborne basecoats and tri-coats and urethane topcoats, using both foreign and domestic refinish systems. Includes complete refinishing, spot and panel painting, color matching and problem solving.							Cooperative work experience. Work-based learning experience in an auto body repair shop. Required: Student Petition.							
Prerequisites: ABR-127							Corequisites: CWE-281							
OC LCT ABR-129-01 333535 WTH 7-12:20 PM							OC LCT ABR-230-01 333541 WTH 7-12:20 PM							
M. HOUSE \$756.00 \$78.00 \$337.00 \$1,171.00							M. HOUSE \$756.00 \$78.00 \$337.00 \$1,171.00							
ABR-225 PRODUCTION SHOP TECHNIQUES, 6 CREDITS							ABR-231 COLLISION REPAIR/CWE, 2-6 CREDITS (VAR)							
Designed for students who wish to gain additional hands-on experience in refinishing, using the most up-to-date methods and materials.							Cooperative work experience. Work-based learning experience in an auto body repair shop. Required: Student Petition.							
Prerequisites: ABR-129							Corequisites: CWE-281							
OC LCT ABR-225-01 333536 WTH 7-12:20 PM							OC LCT ABR-231-01 333542 WTH 7-12:20 PM							
M. HOUSE \$756.00 \$78.00 \$337.00 \$1,171.00							M. HOUSE \$756.00 \$78.00 \$337.00 \$1,171.00							

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

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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
OC LCT	ABR-225-01 333537 WTH 7-12:20 PM M. HOUSE					\$756.00	\$78.00	\$337.00		\$1,171.00
ABR-227 RESTORATION PRACTICES, 6 CREDITS Designed for students who wish to broaden their skills base in the upper end refinish market. Projects will be considerably more challenging, with standards and expectations set higher. Prerequisites: ABR-225										
OC LCT	ABR-227-01 333539 WTH 7-12:20 PM M. HOUSE					\$756.00	\$78.00	\$337.00		\$1,171.00

Automotive Service Technology

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

AM-100 AUTOMOTIVE FUNDAMENTALS, 4 CREDITS

An introductory automotive service class intended to provide fundamental knowledge and basic experience about automobiles. The course covers automotive systems, preventive maintenance and performing basic repairs. Also covered in the course is SP2 safety and pollution prevention training, communication skills, tool identification and general automotive maintenance and repair.

oc	AM-100-01 333541 MTWTH 10-11:50 AM L. BLAHUTA					\$504.00	\$52.00	\$114.00		\$670.00
----	--	--	--	--	--	----------	---------	----------	--	----------

AM-101 INTRO TO AUTOMOTIVE SERVICE TECHNOLOGY, 2 CREDITS

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

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

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

oc	AM-101-01 333544 MTWTHF 1-5:50 PM N. ROBERTS					\$252.00	\$26.00	\$5.00		\$283.00
Meets: 9/30-10/4.										

AM-106 FIX YOUR OWN CAR, 2 CREDITS

A do-it-yourself course for students who want to work on their own cars. Includes: oil change, lubrication, fluid checks, brakes, cooling system, electrical system, safety, and other quick services. May be repeated for up to 12 credits.

OC LCT	AM-106-02 333546 S 8-4:20 PM T. SHOCKLEY					\$252.00	\$26.00	\$63.00		\$341.00
Meets: 10/12, 10/26, 11/9, 11/23 & 12/14.										

AM-116 REMOTE CONTROL VEHICLE FUNDAMENTALS, 4 CREDITS

This course is intended to provide an exploration into mechanical and electrical systems found on 1/10 scale electrically propelled trucks. Students will have classroom instruction to cover operation of suspension systems, drive train systems, gear reductions, battery construction, battery maintenance and charging, electric motor operation, maintenance and repair. Students will disassemble, categorize and organize all parts and re-assemble a remote-controlled vehicle throughout the term. Students will test and operate their remote vehicle on a controlled course with successful completion of class assignments.

oc	AM-116-01 337737 TW 6-9:50 PM TBA					\$504.00	\$52.00	\$84.00		\$640.00
----	--	--	--	--	--	----------	---------	---------	--	----------

AM-118 SMALL ENGINE REPAIR, 4 CREDITS

This course is designed to provide an overview of basic small engine maintenance, operation and repair. It covers safety, small engine theory, electrical systems, and troubleshooting. Classroom instruction covering theory of operation, 2 cycle and 4 cycle designs and applications, combined with hands-on live projects provides the student the opportunity to learn basic principles of small engine operation, including outdoor equipment, motorcycles, and A.T.V.'s.

OC LCT	AM-118-01 333560 THF 6-9:50 PM T. CARLSON					\$504.00	\$52.00	\$121.00		\$677.00
OC LCT	AM-118-02 333564 MTWTH 7:30 -9:20 AM L. BLAHUTA					\$504.00	\$52.00	\$121.00		\$677.00
oc	AM-118-03 337736 MTWTH 1-2:50 PM L. BLAHUTA					\$504.00	\$52.00	\$121.00		\$677.00

AM-129 ELECTRICAL SYSTEMS I, 5 CREDITS

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

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

oc	AM-129-01 333567 MTWTH 1-5:50 PM J. LEUCK					\$630.00	\$65.00	\$211.00		\$906.00
Meets: 10/7-11/7.										
oc	AM-129-02 333569 MTWTH 1-5:50 PM J. LEUCK					\$630.00	\$65.00	\$211.00		\$906.00
Meets: 11/11-12/12.										

AM-130 BRAKE SYSTEMS, 5 CREDITS

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

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

oc	AM-130-01 333571 MTWTH 1-5:50 PM W. VAN RIPER					\$630.00	\$65.00	\$211.00		\$906.00
Meets: 10/7-11/7.										
oc	AM-130-02 333573 MTWTH 1-5:50 PM W. VAN RIPER					\$630.00	\$65.00	\$211.00		\$906.00
Meets: 11/6-12/7.										

AM-201 AUTOMOTIVE INTERNSHIP, 3 CREDITS

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

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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course No Course Title, Credits							Course No Course Title, Credits						
Section No Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total	Section No Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total
Students will be completing a portfolio project to present to companies in the automotive industry. Students will learn best practices for interview preparedness and resume development. There will be a scheduled interview day with partners in industry to help place students in the workforce for internship. Students will prepare for Auto Service Excellence (ASE) certification tests.							OC	BI-101-02	333664 TTH			9-10:20 AM	
								E. DEBEY		\$504.00	\$52.00	\$55.00	\$611.00
							Corequisite: Take 1 of the following BI-101L-01, BI-101L-02, BI-101L-03.						
							OC	BI-101-20	333667 MW			6-7:20 PM	
								K. OSTLUND		\$504.00	\$52.00	\$55.00	\$611.00
							Corequisite: Take the following BI-101L-20.						
							ONL	BI-101-40	333668				
								E. DEBEY		\$504.00	\$52.00	\$55.00	\$611.00
							Corequisite: Take the following BI-101L-40.						
							ONL	BI-101-41	333670				
								TBA		\$504.00	\$52.00	\$55.00	\$611.00
							Corequisite: Take the following BI-101L-41.						
							BI-101L	GENERAL BIOLOGY; CELLULAR BIOLOGY LAB, 0 CREDIT					
							Lab course for BI-101						
							Corequisites: BI-101						
							OC	BI-101L-01	333672 MW			2:30 -3:50 PM	
								E. DEBEY		\$0.00	\$0.00	\$0.00	\$0.00
							Corequisite: Take 1 of the following BI-101-01, BI-101-02.						
							OC	BI-101L-02	333674 TTH			10:30 -11:50 AM	
								E. DEBEY		\$0.00	\$0.00	\$0.00	\$0.00
							Corequisite: Take 1 of the following BI-101-01, BI-101-02.						
							OC	BI-101L-03	333676 TTH			1-2:20 PM	
								M. PLUMMER		\$0.00	\$0.00	\$0.00	\$0.00
							Corequisite: Take 1 of the following BI-101-01, BI-101-02.						
							OC	BI-101L-20	333677 MW			7:30 -8:50 PM	
								K. OSTLUND		\$0.00	\$0.00	\$0.00	\$0.00
							Corequisite: Take the following BI-101-20.						
							ONL LCT	BI-101L-40	333679				
								E. DEBEY		\$0.00	\$0.00	\$0.00	\$0.00
							Corequisite: Take the following BI-101-40.						
							ONL LCT	BI-101L-41	333681				
								TBA		\$0.00	\$0.00	\$0.00	\$0.00
							Corequisite: Take the following BI-101-41.						
							BI-102	GENERAL BIOLOGY; ANIMAL SYSTEMS, 4 CREDITS					
							An inquiry-based laboratory course focusing on human and animal body systems; including teratogens, Hox genes and hormone mimics in embryonic development. Activities emphasize comparisons across animal phyla to better understand the diversity of life. The class uses student centered activities in a collaborative learning environment to enhance appreciation of the animal kingdom.						
							Corequisites: BI-102L						
							Recommended Prerequisites: MTH-060 or MTH-098 or placement in MTH-065; and WRD-098 or placement in WR-121Z						
							ONL	BI-102-40	333682				
								M. PLUMMER		\$504.00	\$52.00	\$55.00	\$611.00
							BI-102L	GENERAL BIOLOGY; ANIMAL SYSTEMS LAB, 0 CREDIT					
							Lab course for BI-102						
							Corequisites: BI-102						
							ONL	BI-102L-40	333685				
								M. PLUMMER		\$0.00	\$0.00	\$0.00	\$0.00
							BI-103	GENERAL BIOLOGY; PLANTS & THE ECOSYSTEM, 4 CREDITS					

Campus Locations:		Distance Education Notification:		Other Coding Translations:		ESPAÑOL: Enseñado en español	
HAR: Harmony Community Campus		ONL: Online Only		TBA: To be arranged: contact		LCT: Low-Cost Text	
OC: Oregon City Campus		REM: Remote (w/ scheduled meetings)		department first class			
WILS: Wilsonville Training Center		HYB: In-person plus online work		VAR: Variable credit class			
OFF: Other Off-Campus Location							

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			
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 333688 K. OSTLUND	\$504.00	\$52.00	\$55.00		\$611.00
BI-103L	GENERAL BIOLOGY; PLANTS & THE ECOSYSTEM LAB, 0 CREDIT												
Lab course for BI-103 Corequisites: BI-103							ONL	BI-103L-40 333690 K. OSTLUND	\$0.00	\$0.00	\$0.00		\$0.00
BI-112	GENERAL BIOLOGY FOR HEALTH SCIENCES, 4 CREDITS												
A one-term preparatory course that introduces the Health Occupations student to the scientific method, molecular and cellular biology, principles of inheritance, homeostasis, natural selection, tissues, and organ systems. Topics and skills covered prepare students to enter BI-231 and BI-234. Corequisites: BI-112L Recommended Corequisite: CH-112 Recommended Prerequisites: MTH-060 or MTH-098 or placement in MTH-065, and WRD-098 or placement in WR-121Z							OC	BI-112-01 333691 TTH J. BOWN	\$504.00	\$52.00	\$55.00	11-12:20 PM	\$611.00
Corequisite: Take 1 of the following BI-112L-01, BI-112L-02.							HAR	BI-112-15 333694 MW P. JONES	\$504.00	\$52.00	\$55.00	9-10:20 AM	\$611.00
Corequisite: Take the following BI-112L-15.							ONL	BI-112-20 337663 TBA	\$504.00	\$52.00	\$55.00		\$611.00
Corequisite: Take the following BI-112L-20.							ONL	BI-112-40 333696 S. KELSEY	\$504.00	\$52.00	\$55.00		\$611.00
Corequisite: Take the following BI-112L-40.							BI-112L	GENERAL BIOLOGY FOR HEALTH SCIENCES LAB, 0 CREDIT					
Lab course for BI-112 Corequisites: BI-112							OC	BI-112L-01 333698 T J. BOWN	\$0.00	\$0.00	\$0.00	1-3:50 PM	\$0.00
Corequisite: Take the following BI-112-01.							OC	BI-112L-02 333701 TH J. BOWN	\$0.00	\$0.00	\$0.00	8-10:50 AM	\$0.00
Corequisite: Take the following BI-112-01.							HAR	BI-112L-15 333703 MW P. JONES	\$0.00	\$0.00	\$0.00	10:30 -11:50 AM	\$0.00
Corequisite: Take the following BI-112-15.							OC	BI-112L-20 337664 T TBA	\$0.00	\$0.00	\$0.00	6-8:50 PM	\$0.00
Corequisite: Take the following BI-112-20.							ONL	BI-112L-40 333705 S. KELSEY	\$0.00	\$0.00	\$0.00		\$0.00
Corequisite: Take the following BI-112-40.							BI-112L-40 333705 S. KELSEY Corequisite: Take the following BI-112-40.						
							BI-120	INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY, 4 CREDITS					
This course is designed to serve students as an overview introductory course to human anatomy and physiology. Material covered includes the structure and function of the human body. Basic chemistry and cell structures are covered, as well as the organization of tissues, organs, and organ systems. Correlations can then be made between this material and disease states commonly encountered in health care. Dissection of animal tissues is required. Corequisites: BI-120L							HAR	BI-120-15 333707 MW P. JONES	\$504.00	\$52.00	\$55.00	1-2:20 PM	\$611.00
This class is intended as a pre-requisite for the Medical Assistant and Medical Coding and Billing Programs.							BI-120L	INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY LAB, 0 CREDIT					
Lab course for BI-120 Corequisites: BI-120							HAR	BI-120L-15 333709 MW P. JONES	\$0.00	\$0.00	\$0.00	2:30 -3:50 PM	\$0.00
							BI-165C	NATURAL HISTORY OF THE OREGON COAST, 3 CREDITS					
Explores the natural processes that form our Northwest coastal environment: geologic development, shoreline processes, oceanography, and environmental hazards. Topics include the ecology of marine mammals, fish, birds, estuaries, tidepools, sand dunes, and coastal forests.							OC	BI-165C-20 333713 T J. BOWN	\$378.00	\$39.00	\$20.00	6-8:50 PM	\$437.00
							BI-165CL	NATURAL HISTORY OF THE OREGON COAST WITH LAB, 4 CREDITS					
Explores the natural processes that form our Northwest coastal environment: geologic development, shoreline processes, oceanography, and environmental hazards. Topics include the ecology of marine mammals and birds, estuaries, tide pools, sand dunes and coastal forests. Lab included with field trips and lab activities.							OC	BI-165CL-20 333714 T J. BOWN	\$504.00	\$52.00	\$60.00	6-8:50 PM	\$616.00
Field trips to the Oregon coast required. Dates to be determined.							BI-211	GENERAL BIOLOGY FOR SCIENCE MAJORS (CELLULAR BIOLOGY), 5 CREDITS					
The first term of a three-term laboratory course sequence for science majors and pre-professional students. The course emphasizes cellular biology; including the process of science, cell structure, organization and function, cellular communication, biochemical processes, DNA cell cycle, protein synthesis, biotechnology, genetics, evolution, and an introduction to tissues, organs and organ systems. Corequisites: BI-211L Prerequisite or Corequisite: CH-104 or CH-221 Prerequisites: MTH-111Z or placement in MTH-112Z Recommended Prerequisites: 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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course No	Course Title, Credits						Course No	Course Title, Credits					
	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Total		Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Total
OC	BI-211-01	333717 MW					BI-232	HUMAN ANATOMY & PHYSIOLOGY II, 4 CREDITS					
	T. BLACKWELL	\$630.00	\$65.00	\$55.00	\$750.00			Lab course covering structure and function of the muscular, cardiovascular, lymphatic, and respiratory systems. Animal organ dissection required.					
ONL	BI-211-02	333720					Prerequisites: BI-231 with a C or better						
	T. BLACKWELL	\$630.00	\$65.00	\$55.00	\$750.00		Corequisites: BI-232L						
BI-211L GENERAL BIOLOGY FOR SCIENCE MAJORS (CELLULAR BIOLOGY) LAB, 0 CREDIT													
Lab course for BI-211													
Corequisites: BI-211													
OC	BI-211L-01	333721 TH					BI-232L	HUMAN ANATOMY & PHYSIOLOGY II LAB, 0 CREDIT					
	T. BLACKWELL	\$0.00	\$0.00	\$0.00	\$0.00			Lab course for BI-232					
OC	BI-211L-02	333723 TH					Corequisites: BI-232						
	T. BLACKWELL	\$0.00	\$0.00	\$0.00	\$0.00								
BI-231 HUMAN ANATOMY & PHYSIOLOGY I, 4 CREDITS													
A lab course designed for students entering the physical education or medically-related fields. Includes body organization, terminology, tissues and systemic study of the integumentary, skeletal and nervous systems. Animal organ dissection required.													
Prerequisites: BI-112 (preferred), or BI-101 and BI-102, or BI-211. CH-112 (preferred), or CH-104 and CH-105, or CH-221 and CH-222													
Corequisites: BI-231L													
OC HYB	BI-231-01	333725 M					BI-233	HUMAN ANATOMY & PHYSIOLOGY III, 4 CREDITS					
	M. PATTERSON	\$504.00	\$52.00	\$55.00	\$611.00			Lab course covering neuroendocrine control, digestive, excretory and reproductive systems. Study of fluid, electrolyte and acid-base balance. Animal organ dissection required.					
OC HYB	BI-231-02	333731 T					Prerequisites: BI-232 with a C or better						
	B. KOP	\$504.00	\$52.00	\$55.00	\$611.00		Corequisites: BI-233L						
HAR	BI-231-15	333735 TTH											
	M. PATTERSON	\$504.00	\$52.00	\$55.00	\$611.00								
OC HYB	BI-231-20	333734 M											
	B. KOP	\$504.00	\$52.00	\$55.00	\$611.00								
BI-231L HUMAN ANATOMY & PHYSIOLOGY I LAB, 0 CREDIT													
Lab course for BI-231													
Corequisites: BI-231													
OC	BI-231L-01	333738 M					BI-233L	HUMAN ANATOMY & PHYSIOLOGY III LAB, 0 CREDIT					
	M. PATTERSON	\$0.00	\$0.00	\$0.00	\$0.00			Lab course for BI-233					
OC	BI-231L-02	333745 T					Corequisites: BI-233						
	J. GALLEGOS	\$0.00	\$0.00	\$0.00	\$0.00								
OC	BI-231L-03	333747 W											
	M. PATTERSON	\$0.00	\$0.00	\$0.00	\$0.00								
HAR	BI-231L-15	333752 TTH											
	M. PATTERSON	\$0.00	\$0.00	\$0.00	\$0.00								
OC	BI-231L-20	333748 W											
	J. GALLEGOS	\$0.00	\$0.00	\$0.00	\$0.00								

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

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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
Lab course for BI-234										
Corequisites: BI-234										
OC	BI-234L-01	333774	TTH					2:30 -3:50 PM		
	S. SOLL					\$0.00	\$0.00	\$0.00		\$0.00
Corequisite: Take the following BI-234-01.										
OC	BI-234L-20	333778	TTH					7:30 -8:50 PM		
	N. SEFCIKOVA					\$0.00	\$0.00	\$0.00		\$0.00
Corequisite: Take the following BI-234-20.										
ONL	BI-234L-40	333777								
	S. SOLL					\$0.00	\$0.00	\$0.00		\$0.00
Corequisite: Take the following BI-234-40.										

Business Administration

BA-101Z INTRODUCTION TO BUSINESS, 4 CREDITS

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

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

OC	BA-101Z-01	333771	TTH					8-9:50 AM		
	J. EICHENBERGER					\$504.00	\$52.00	\$5.00		\$561.00
OC HYB	BA-101Z-02	333773	T					10-11:50 AM		
	J. EICHENBERGER					\$504.00	\$52.00	\$5.00		\$561.00
OC HYB	BA-101Z-03	333775	TH					10-11:50 AM		
	J. EICHENBERGER					\$504.00	\$52.00	\$5.00		\$561.00
REM LCT	BA-101Z-04	333776	W					6-7:50 PM		
	K. HEINIG					\$504.00	\$52.00	\$48.75		\$604.75
Online textbook included in section fees.										
ONL	BA-101Z-05	333779								
	M. MOISO					\$504.00	\$52.00	\$48.75		\$604.75
Online textbook included in section fees.										
ONL	BA-101Z-06	333781								
	S. PARKER					\$504.00	\$52.00	\$5.00		\$561.00
ONL	BA-101Z-07	333783								
	M. MOISO					\$504.00	\$52.00	\$48.75		\$604.75
Online textbook included in section fees.										
ONL	BA-101Z-08	333784								
	S. RAHN					\$504.00	\$52.00	\$48.75		\$604.75
Online textbook included in section fees.										

BA-104 BUSINESS MATH, 3 CREDITS

Apply mathematics to a variety of transactions found in the business world, from finance to project management, and from sales to accounting, including: payroll, product or service mark-ups and mark-downs; simple and compound interest; present and future value of a single sum of money and annuities; and financial ratio analysis.

Prerequisites: Placement in MTH-020 or higher

OC	BA-104-01	333785	W					1-3:50 PM		
	K. JANICKI					\$378.00	\$39.00	\$86.80		\$503.80
Online textbook included in section fees.										
ONL	BA-104-02	333787								
	J. AMAN					\$378.00	\$39.00	\$86.80		\$503.80
Online textbook included in section fees.										

BA-111 GENERAL ACCOUNTING I, 3 CREDITS

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

Distance Education Notification:
ONL: Online Only
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

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

Recommended Prerequisites: Placement in MTH-020

OC	BA-111-01	333788	T					9-11:50 AM		
	J. SAN-CLAIRE					\$378.00	\$39.00	\$124.99		\$541.99
Online textbook included in section fees.										
ONL	BA-111-02	333791								
	J. SAN-CLAIRE					\$378.00	\$39.00	\$124.99		\$541.99
Online textbook included in section fees.										

BA-112 GENERAL ACCOUNTING II, 4 CREDITS

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

Prerequisites: BA-111 or BA-211Z

Prerequisites or Corequisites: BA-131 or some knowledge of Excel

ONL	BA-112-01	337725								
	J. SAN-CLAIRE					\$504.00	\$52.00	\$124.99		\$680.99
Online textbook included in section fees.										

BA-119 PROJECT MANAGEMENT PRACTICES, 2 CREDITS

Basic course in project management, intended for non-project management students. Students gain a basic understanding of project management principles and techniques, with emphasis on scope planning, scheduling, and resource management. Students learn practical application of cost control, time management, and communication in project environments.

ONL LCT	BA-119-01	333792								
	C. PLOWMAN					\$252.00	\$26.00	\$0.00		\$278.00
ONL LCT	BA-119-02	333795								
	C. PLOWMAN					\$252.00	\$26.00	\$0.00		\$278.00

BA-120 PROJECT MANAGEMENT FUNDAMENTALS, 4 CREDITS

Foundational course in project management. Students gain an introduction to project management principles and techniques, including identifying project life cycle phases, generating a project charter, learning and applying stakeholder management techniques, generating work/task breakdowns, network diagrams and identifying the critical path. Students will also learn and apply risk management techniques, resource allocation, and project monitoring and controlling methodologies.

Recommended: Working knowledge and access to MS Excel and MS Word

ONL	BA-120-01	333797								
	S. RAHN					\$504.00	\$52.00	\$0.00		\$556.00

BA-125 PROJECT MANAGEMENT PREP, 5 CREDITS

2024/FA

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
--	--	--	--

Course No Course Title, Credits							Course No Course Title, Credits								
	Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total
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.								Includes concepts, principles, and rules of law applicable to business and personal transactions, with emphasis on sources of law, the U.S. Constitution, personal and business torts and crimes, case-based applications, ethics, and consumer contract law.							
Prerequisites: BA-211Z															
OC HYB	BA-213Z-01	333831 M				1-3:50 PM		ONL	BA-226-01	333846					
	I. SETO			\$504.00	\$52.00	\$124.99	\$680.99		M. MOISO			\$504.00	\$52.00	\$58.43	\$614.43
	Online textbook included in section fees.							Online textbook included in section fees.							
ONL	BA-213Z-02	337566						ONL	BA-226-02	333848					
	J. SAN-CLAIRE			\$504.00	\$52.00	\$124.99	\$680.99		M. MOISO			\$504.00	\$52.00	\$58.43	\$614.43
	Online textbook included in section fees.							Online textbook included in section fees.							
BA-217 BUDGETING FOR MANAGERS, 3 CREDITS								BA-228 COMPUTERIZED ACCOUNTING, 3 CREDITS							
Budgeting is a crucial managerial decision-making and planning tool that also incorporates performance evaluation through variance analysis. This course examines developing and managing department and project budgets in-depth, as well as how they fit into the overall organizational framework. Specifically, this course includes coverage of static, flexible, and rolling budgets, capital budgeting, variance analysis, break-even and contribution margin analysis, profit planning, manufacturing costs, sales forecasts, and cost behavior.								An introductory, hands-on experience with computer applications that are used for accounting, including transaction entry for a full accounting cycle, from business setup through month-end close. This course features instruction for Quickbooks Online.							
Prerequisites: BA-211Z								Prerequisites: BA-111 or BA-211Z							
Recommended Prerequisites: BA-213Z or some experience in budgeting															
OC LCT	BA-217-01	333833 W				1-3:50 PM		OC LCT	BA-228-01	333849 TH				1-3:50 PM	
	T. FRANK			\$378.00	\$39.00	\$5.00	\$422.00		T. FRANK			\$378.00	\$39.00	\$35.00	\$452.00
								Online textbook included in section fees.							
								ONL	BA-228-02	333850					
								T. FRANK				\$378.00	\$39.00	\$0.00	\$417.00
BA-218 PERSONAL FINANCE, 4 CREDITS								BA-249 RETAILING, 3 CREDITS							
Analysis and application of basic principles of personal finance including budgeting and spending, financial decision-making, use of credit, saving and investing, home purchase, taxes, risk management, retirement planning, estate planning, and other major personal finance topics.								Provides an understanding of the types of retail businesses, strategies, operations, formats and environments through which retailing is carried out, including a multi-disciplinary approach to understand the structure of effective retail management.							
Prerequisites: BA-104 or MTH-050 or higher, and WRD-098								Recommended Prerequisites: WRD-090 or placement in WRD-098							
ONL	BA-218-01	333836						ONL	BA-249-01	337565					
	S. PARKER			\$504.00	\$52.00	\$0.00	\$556.00		T. FRANK			\$378.00	\$39.00	\$5.00	\$422.00
BA-223 PRINCIPLES OF MARKETING, 4 CREDITS								BA-251 SUPERVISORY MANAGEMENT, 3 CREDITS							
Offers a comprehensive investigation of strategic marketing in a global environment. Topics covered will include research, ethics, consumer behavior, product strategy, distribution strategy, promotional strategy and pricing strategy.								Addresses the role and responsibilities of the first-line supervisor or manager. Includes planning and controlling, dealing with change, performance management, leadership, decision-making, communication, and managing teams.							
Recommended Prerequisites: WRD-090 or placement in WRD-098								Recommended Prerequisites: WRD-090 or placement in WRD-098							
ONL	BA-223-01	333838						ONL	BA-251-01	333851					
	S. PARKER			\$504.00	\$52.00	\$5.00	\$561.00		D. HEINIG			\$378.00	\$39.00	\$0.00	\$417.00
ONL	BA-223-02	337746													
	C. CHATTERTON			\$504.00	\$52.00	\$5.00	\$561.00								
BA-224 HUMAN RESOURCE MANAGEMENT, 4 CREDITS								BA-270 SOCIAL MEDIA MARKETING, 4 CREDITS							
Focuses on a practical, real world approach to Human Resource Management for line managers and Human Resource Managers. Introduces history and current legal environment of Human Resource Management and applies current practice in the functions of staffing, human resource development, compensation, safety and health, and employee and labor relations in both union and non-union environment.								This is an introductory course that provides an overview of social media and its role in marketing. Nearly everything consumers do is tracked online and this level of marketing analytics is assisting organizations develop a better understanding of consumer and market needs and trends. This course will seek to develop an understanding to how social media compliments marketing.							
Recommended Prerequisites: WRD-090 or placement in WRD-098								Recommended Prerequisites: WRD-090 or placement in WRD-098							
ONL LCT	BA-224-01	333843						ONL LCT	BA-270-01	333854					
	M. MOISO			\$504.00	\$52.00	\$48.75	\$604.75		C. CHATTERTON			\$504.00	\$52.00	\$0.00	\$556.00
	Online textbook included in section fees.														
BA-226 BUSINESS LAW I, 4 CREDITS								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							

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

Course No	Course Title, Credits						
	Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total
ONL LCT	BA-280-01 S. PARKER	333855		\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.						
ONL	BA-280-02 B. FORNEY	333860		\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.						

BA-285 HUMAN RELATIONS IN BUSINESS, 4 CREDITS

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

ONL	BA-285-01 S. PARKER	333861		\$504.00	\$52.00	\$5.00	\$561.00
ONL	BA-285-02 J. HERNANDEZ	333862		\$504.00	\$52.00	\$48.75	\$604.75
	Online textbook included in section fees.						

Business Technology**BT-120 PERSONAL KEYBOARDING, 2 CREDITS**

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

ONL	BT-120-01 S. SIMMONS	333864		\$252.00	\$26.00	\$10.00	\$288.00
ONL	BT-120-02 S. SIMMONS	333866		\$252.00	\$26.00	\$10.00	\$288.00

BT-121 DATA ENTRY, 1 CREDIT

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

ONL	BT-121-01 S. SIMMONS	333868		\$126.00	\$13.00	\$10.00	\$149.00
ONL	BT-121-02 S. SIMMONS	333871		\$126.00	\$13.00	\$10.00	\$149.00

BT-122 KEYBOARDING SKILLBUILDING, 2 CREDITS

Designed to improve keyboarding proficiency using the standard keyboarding by touch method established within BT-120. Speed and accuracy on the keyboard will be further refined. Proper formatting of various types of business communication will be reviewed and established(emails, memos, block-style business letters). Students will utilize Microsoft Word and/or Google documents to create letters and memos.

Prerequisites: BT-120

ONL	BT-122-01 S. SIMMONS	333872		\$252.00	\$26.00	\$10.00	\$288.00
ONL	BT-122-02 S. SIMMONS	333876		\$252.00	\$26.00	\$10.00	\$288.00

BT-124 BUSINESS EDITING I, 3 CREDITS

Course No	Course Title, Credits						
	Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total
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 S. SIMMONS	333878		\$378.00	\$39.00	\$10.00	\$427.00

BT-160 WORD I, 3 CREDITS

Introductory-level course where students learn basic concepts of the Word software program. This course is designed for students who have no or little knowledge of Word.

Required: Access to the following equipment and software: Personal computer or laptop with MS Windows operating system (preferably Windows 8 or 10), MS Word, or access to the CCC Dye Academic Computer Lab for coursework

Recommended: 35 words per minute typing skill or BT-120

ONL	BT-160-01 F. MEYERS	333882		\$378.00	\$39.00	\$63.75	\$480.75
	Office 2021 version is used. Online textbook included in section fees.						

BT-262 INTEGRATED PROJECTS, 4 CREDITS

Advanced use and integration of Microsoft Word, Excel, Access and PowerPoint skills in creating letters, reports, and forms; creation of advanced Excel worksheet reports and budgets; creation of Access databases to generate reports and forms; creation of PowerPoint presentations. Introduction to the use of Adobe Professional for use with documents, forms, and web pages. Google applications such as documents, presentations, spreadsheets, and Gmail.

Prerequisites: BA-131 and BT-160

ONL	BT-262-01 B. FORNEY	333888		\$504.00	\$52.00	\$53.75	\$609.75
	Office 2021 version is used. Online textbook included in section fees.						

Chemistry**CH-104 INTRODUCTORY CHEMISTRY, 5 CREDITS**

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

Corequisites: CH-104L and CH-104S

Prerequisites: MTH-065 or MTH-098 or placement in MTH-095; and WRD-090 or placement in WRD-098

OC LCT	CH-104-01 G. BURGESS	333786 MW	2-3:20 PM	\$630.00	\$65.00	\$50.00	\$745.00
	Corequisite: Take the following CH-104S-01, CH-104L-01.						
ONL LCT	CH-104-40 G. BURGESS	333789		\$630.00	\$65.00	\$50.00	\$745.00
	Corequisite: Take the following CH-104S-40, CH-104L-40.						

CH-104L INTRODUCTORY CHEMISTRY LAB, 0 CREDIT

Lab course for CH-104

Corequisites: CH-104 and CH-104S

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

Course No							Course Title, Credits										
Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
OC	CH-104L-01	333790	TBA						OC	CH-112L-20	337666	W			6-8:50 PM		
	TBA			\$0.00	\$0.00	\$0.00		\$0.00		TBA			\$0.00	\$0.00	\$0.00		\$0.00
	Open Lab: Students must spend 3 hours per week in Chemistry Tutorial Lab. Lab Hours: Wed: 9 AM-4PM, Thursday: 9 AM-8 PM, & Friday: 9 AM-4 PM. Corequisite: Take the following CH-104-01, CH-104S-01.									Corequisite: Take the following CH-112-20.							
OC	CH-104L-40	333793	TBA						ONL	CH-112L-40	333808						
	TBA			\$0.00	\$0.00	\$0.00		\$0.00		D. PAUL			\$0.00	\$0.00	\$0.00		\$0.00
	Open Lab: Students must spend 3 hours per week in Chemistry Tutorial Lab. Lab Hours: Wed: 9 AM-4 PM, Thursday: 9 AM-8 PM, & Friday: 9 AM-4 PM Corequisite: Take the following CH-104-40, CH-104S-40.									Corequisite: Take the following CH-112-40.							
CH-104S INTRODUCTORY CHEMISTRY SEMINAR, 0 CREDIT																	
Seminar course for CH-104																	
Corequisites: CH-104 and CH-104L																	
OC	CH-104S-01	333794	TH				1-1:50 PM			CH-114-15	333809	TTH			9-10:20 AM		
	G. BURGESS			\$0.00	\$0.00	\$0.00		\$0.00		E. FRANCIS			\$504.00	\$52.00	\$50.00		\$606.00
	Corequisite: Take the following CH-104-01, CH-104L-01.									Corequisite: Take the following CH-114L-15.							
OC	CH-104S-40	333796	TH				2-2:50 PM			CH-114L CHEMISTRY IN ART LAB, 0 CREDIT							
	G. BURGESS			\$0.00	\$0.00	\$0.00		\$0.00		Lab course for CH-114							
	Corequisite: Take the following CH-104-40, CH-104L-40.									Corequisites: CH-114							
CH-112 CHEMISTRY FOR HEALTH SCIENCES, 4 CREDITS																	
One-term preparatory chemistry course for students who want to take BI-231 and/or BI-234. Includes measurement; atomic structure; periodic table; bonding; nomenclature; heat; molecular and ionic interactions in solids; liquids and solutions; chemical reactions including acid-base; organic chemistry; and biochemistry.																	
Corequisites: CH-112L																	
Prerequisites: MTH-065 or MTH-098 with a C or better or placement in MTH-095																	
Prerequisites: WRD-090 or placement in WRD-098																	
Recommended Corequisite: BI-112																	
OC	CH-112-01	333798	MW				10-11:20 AM			CH-114L-15	333812	TTH			10:30 -11:50 AM		
	TBA			\$504.00	\$52.00	\$50.00		\$606.00		E. FRANCIS			\$0.00	\$0.00	\$0.00		\$0.00
	Corequisite: Take 1 of the following CH-112L-01, CH-112L-02.									Corequisite: Take the following CH-114-15.							
ONL	CH-112-15	333800								CH-150 PREPARATORY CHEMISTRY, 4 CREDITS							
	TBA			\$504.00	\$52.00	\$50.00		\$606.00		One term preparatory course for students who must take the general chemistry sequence (CH-221/222/223) but have no chemistry background.							
	Corequisite: Take the following CH-112L-15.									Corequisites: CH-150S							
ONL	CH-112-20	337665								Prerequisites: MTH-095 or placement in MTH-111Z							
	TBA			\$504.00	\$52.00	\$50.00		\$606.00		OC	CH-150-01	333816	MWF		10-10:50 AM		
	Corequisite: Take the following CH-112L-20.										N. DAS			\$504.00	\$52.00	\$20.00	\$576.00
ONL	CH-112-40	333801									Corequisite: Take the following CH-150S-01.						
	E. FRANCIS			\$504.00	\$52.00	\$50.00		\$606.00		ONL	CH-150-02	333819					
	Corequisite: Take the following CH-112L-40.										D. MYERS			\$504.00	\$52.00	\$20.00	\$576.00
											Corequisite: Take the following CH-150S-02.						
										ONL	CH-150-03	333820					
											D. PAUL			\$504.00	\$52.00	\$20.00	\$576.00
											This section includes an in-person seminar requirement. Corequisite: Take the following CH-150S-03.						
CH-150S PREPARATORY CHEMISTRY SEMINAR, 0 CREDIT																	
Seminar course for CH-150																	
Corequisites: CH-150																	
OC	CH-150S-01	333821	TH				9-9:50 AM			CH-150S-02	333822	W			2-2:50 PM		
	N. DAS			\$0.00	\$0.00	\$0.00		\$0.00		S. MCDONALD			\$0.00	\$0.00	\$0.00		\$0.00
	Corequisite: Take the following CH-150-01.									Corequisite: Take the following CH-150-02.							
OC	CH-150S-02	333822	W							CH-150S-03	333823	TH			11-11:50 AM		
	S. MCDONALD			\$0.00	\$0.00	\$0.00		\$0.00		D. PAUL			\$0.00	\$0.00	\$0.00		\$0.00
	Corequisite: Take the following CH-112-01.									Corequisite: Take the following CH-150-03.							
OC	CH-150S-03	333823	TH							CH-221 GENERAL CHEMISTRY, 5 CREDITS							
	D. PAUL			\$0.00	\$0.00	\$0.00		\$0.00									
	Corequisite: Take the following CH-112-01.																
HAR	CH-112L-15	333806	W				1-3:50 PM										
	S. MCDONALD			\$0.00	\$0.00	\$0.00		\$0.00									
	Corequisite: Take the following CH-112-15.																

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

Course Listing

2024/FA

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
Transfer lab course for science, engineering, and professional majors. Covers the nature of chemistry, atomic theory, electron configuration, structure, bonding, properties, composition and nomenclature of covalent and ionic substances. Introduces organic chemistry and biochemistry topics.									
Prerequisites: CH-104 and CH-105, or CH-150, with a C or better; or a year of high school chemistry within five academic years of beginning CH-221 (passed all terms with C or higher)									
Corequisites: CH-221L and CH-221S									
OC HYB	CH-221-01	333824	MWF				10-10:50 AM		
	D. MYERS				\$630.00	\$65.00	\$45.00		\$740.00
Corequisite: Take 2 of the following CH-221S-01, CH-221S-02, CH-221L-01, CH-221L-02.									
OC	CH-221-20	333827	T				6-8:50 PM		
	J. DU BOULAY				\$630.00	\$65.00	\$45.00		\$740.00
This class has an in-person lab requirement. Corequisite: Take 2 of the following CH-221S-20, CH-221L-20.									
ONL	CH-221-40	333828							
	J. DU BOULAY				\$630.00	\$65.00	\$45.00		\$740.00
This section has an in-person lab requirement and seminar requirement. Corequisite: Take the following CH-221L-40, CH-221S-40.									
CH-221L GENERAL CHEMISTRY LAB, 0 CREDIT									
Lab course for CH-221									
Corequisites: CH-221 and CH-221S									
OC	CH-221L-01	333829	TH				9-11:50 AM		
	D. MYERS				\$0.00	\$0.00	\$0.00		\$0.00
Corequisite: Take 2 of the following CH-221-01, CH-221S-01, CH-221S-02.									
OC	CH-221L-02	333830	TH				1-3:50 PM		
	D. MYERS				\$0.00	\$0.00	\$0.00		\$0.00
Corequisite: Take 2 of the following CH-221-01, CH-221S-01, CH-221S-02.									
OC	CH-221L-20	333832	TH				7-9:50 PM		
	J. DU BOULAY				\$0.00	\$0.00	\$0.00		\$0.00
Corequisite: Take 2 of the following CH-221-20, CH-221S-20.									
OC	CH-221L-40	333834	F				2-4:50 PM		
	J. DU BOULAY				\$0.00	\$0.00	\$0.00		\$0.00
Corequisite: Take the following CH-221-40, CH-221S-40.									
CH-221S GENERAL CHEMISTRY SEMINAR, 0 CREDIT									
Seminar course for CH-221									
Corequisites: CH-221 and CH-221L									
OC	CH-221S-01	333835	W				11-11:50 AM		
	D. MYERS				\$0.00	\$0.00	\$0.00		\$0.00
Corequisite: Take 2 of the following CH-221-01, CH-221L-01, CH-221L-02.									
OC	CH-221S-02	333837	W				1-1:50 PM		
	D. MYERS				\$0.00	\$0.00	\$0.00		\$0.00
Corequisite: Take 2 of the following CH-221-01, CH-221L-01, CH-221L-02.									
OC	CH-221S-20	333839	TH				6-6:50 PM		
	J. DU BOULAY				\$0.00	\$0.00	\$0.00		\$0.00
Corequisite: Take 2 of the following CH-221-20, CH-221L-20.									
OC	CH-221S-40	333840	F				1-1:50 PM		
	J. DU BOULAY				\$0.00	\$0.00	\$0.00		\$0.00
Corequisite: Take the following CH-221-40, CH-221L-40.									
CH-241 ORGANIC CHEMISTRY I, 5 CREDITS									
First term of transfer sequence meeting organic chemistry requirement for premedical, dental, veterinary, pharmacy, chiropractic medicine, chemical engineering and biology majors.									
Prerequisites: CH-223									
Corequisites: CH-241L and CH-241S									
OC	CH-241-01	333841	MW				1-2:20 PM		
	E. FRANCIS				\$630.00	\$65.00	\$50.00		\$745.00
Corequisite: Take the following CH-241L-01, CH-241S-01.									
CH-241L ORGANIC CHEMISTRY I LAB, 0 CREDIT									
Lab course for CH-241									
Corequisites: CH-241 and CH-241S									
OC	CH-241L-01	333842	F				9-11:50 AM		
	E. FRANCIS				\$0.00	\$0.00	\$0.00		\$0.00
Corequisite: Take the following CH-241-01, CH-241S-01.									
CH-241S ORGANIC CHEMISTRY I SEMINAR, 0 CREDIT									
Seminar course for CH-241									
Corequisites: CH-241 and CH-241L									
ONL	CH-241S-01	333844							
	E. FRANCIS				\$0.00	\$0.00	\$0.00		\$0.00
This section has in-person lecture and lab requirements. Corequisite: Take the following CH-241L-01, CH-241-01.									

College and Career Guidance

EL-103 TAKING EFFECTIVE NOTES, 1 CREDIT									
Designed to help students develop effective note-taking skills. Several note-taking systems are introduced and practiced.									
Prerequisites: WRD-080 or placement in WRD-090									
ONL LCT	EL-103-13	333952							
	B. MALONEY				\$126.00	\$13.00	\$0.00		\$139.00
EL-111 COLLEGE STUDY SKILLS, 3 CREDITS									
Emphasizes time management, listening/notetaking, testing skills/anxiety, college resources, learning styles, reading strategies, textbook reading, and concentration skills.									
Prerequisites: WRD-080 or placement in WRD-090									
OC HYB LCT	EL-111-01	333953	T				1-2:20 PM		
	B. MALONEY				\$378.00	\$39.00	\$15.00		\$432.00
HD-102 SERVICE LEARNING EXPERIENCE, 1-6 CREDITS									
Provides students with a service learning experience in a community setting. Students complete 30-180 hours of volunteer work and participate in ongoing journaling as well as reflection exercises to connect volunteer work with an area of study. May be repeated for up to 6 credits. Required: Student Petition.									
ONL LCT	HD-102-01	334096							
	J. GINSBURG				\$756.00	\$78.00	\$0.00		\$834.00V
Required: Student Petition.									
HD-121 COLLEGE SUCCESS, 3 CREDITS									
Provides strategies for creating college success by understanding one's role in their learning and by gaining critical skills necessary to learn across contexts.									
ONL LCT	HD-121-01	333926							
	C. WEGNER				\$378.00	\$39.00	\$0.00		\$417.00
Meets: 9/9-10/4. Required: Student Petition.									

College and Career Guidance

EL-103 TAKING EFFECTIVE NOTES, 1 CREDIT

Designed to help students develop effective note-taking skills. Several note-taking systems are introduced and practiced.

Prerequisites: WRD-080 or placement in WRD-090

ONL LCT	EL-103-13	333952								
	B. MALONEY					\$126.00	\$13.00	\$0.00		\$139.00

EL-111 COLLEGE STUDY SKILLS, 3 CREDITS

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

Prerequisites: WRD-080 or placement in WRD-090

OC HYB LCT	EL-111-01	333953	T					1-2:20 PM		
	B. MALONEY					\$378.00	\$39.00	\$15.00		\$432.00

HD-102 SERVICE LEARNING EXPERIENCE, 1-6 CREDITS

Provides students with a service learning experience in a community setting. Students complete 30-180 hours of volunteer work and participate in ongoing journaling as well as reflection exercises to connect volunteer work with an area of study. May be repeated for up to 6 credits. Required: Student Petition.

ONL LCT	HD-102-01	334096								
	J. GINSBURG					\$756.00	\$78.00	\$0.00		\$834.00V
	Required: Student Petition.									

HD-121 COLLEGE SUCCESS, 3 CREDITS

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

ONL LCT	HD-121-01	333926								
	C. WEGNER					\$378.00	\$39.00	\$0.00		\$417.00
	Meets: 9/9-10/4. Required: Student Petition.									

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

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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course Listing

2024/FA

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
Instructor	Tuition	Fee	Crs. Fee			
OC LCT	HD-121-02 333928 MTWTHF 10-11:50 AM E. PFEIFER Meets: 9/9-9/27. Required: Student Petition.		\$378.00	\$39.00	\$0.00	\$417.00

HD-138 UNDERSTANDING AND MANAGING ANXIETY AND DEPRESSION, 3 CREDITS

Identifies components of anxiety and depression, contexts in which anxiety and depression occur, and solutions for coping with anxiety and depression symptoms through the use of various anxiety and depression management techniques.

OC LCT	HD-138-01 334098 TTH 1-2:20 PM J. CORTES		\$378.00	\$39.00	\$0.00	\$417.00
--------	--	--	----------	---------	--------	----------

HD-140 CAREER EXPLORATION, 3 CREDITS

Students use information about themselves (values, interests, personality and skills) and information about the world of work (careers and industries) to explore and make long term career decisions.

ONL LCT	HD-140-01 334100 T. BOYLE- GALESTIANZ		\$378.00	\$39.00	\$10.00	\$427.00
---------	---	--	----------	---------	---------	----------

HD-144 ASSERTIVENESS, 1 CREDIT

Students can use this course to develop assertiveness in their communication and interpersonal relationships. The course focuses on identifying and meeting personal needs, setting boundaries, and asserting oneself in career, social, and personal settings.

HAR LCT	HD-144-15 334101 F 6-8:50 PM S 9-4:50 PM TBA Meets: 11/15 & 11/16.		\$126.00	\$13.00	\$10.00	\$149.00
---------	--	--	----------	---------	---------	----------

HD-145 STRESS MANAGEMENT, 1 CREDIT

Identifies specific personal stressors and focuses on developing skills that enable students to deal more effectively with stress.

HAR LCT	HD-145-15 334103 F 6-8:50 PM S 9-4:50 PM TBA Meets: 11/1 & 11/2.		\$126.00	\$13.00	\$10.00	\$149.00
---------	--	--	----------	---------	---------	----------

HD-154 BUILDING SELF-CONFIDENCE, 1 CREDIT

This course is designed to address the elements forming and influencing self-confidence as well as practicing techniques on disarming your inner critic, dealing with fear, reflection of confidence on self-esteem, personal power, and building on personal accomplishments and assets.

OC LCT	HD-154-01 334107 F 6-8:50 PM S 9-4:50 PM TBA Meets: 10/25 & 10/26.		\$126.00	\$13.00	\$10.00	\$149.00
--------	--	--	----------	---------	---------	----------

HD-220 INTRODUCTION TO STUDENT LEADERSHIP, 2 CREDITS

Introduces leadership concepts with application to the student environment. A discussion-oriented course on how leadership practices are put to use in campus leadership roles and beyond. Begins exploration of aspects of emotional intelligence, such as emotional self-perception, healthy self-esteem, and initiative. Required for some members of CCC's Associated Student Government. Highly recommended for Peer Assistants, New Student Mentors, and work-study students in Student Services departments. Also recommended for club leaders.

OC LCT	HD-220-03 334112 M 3-4:50 PM M. BAKER		\$252.00	\$26.00	\$0.00	\$278.00
--------	---	--	----------	---------	--------	----------

Campus Locations:

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

Distance Education Notification:

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

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 LCT	HD-220-04 334113 TH 8-9:50 AM J. GINSBURG		\$252.00	\$26.00	\$0.00	\$278.00

Communication Studies

COMM-100Z INTRODUCTION TO COMMUNICATION, 4 CREDITS

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

OC LCT	COMM-100Z-333221 MW 3-4:50 PM L. HANN		\$504.00	\$52.00	\$0.00	\$556.00
OC LCT	COMM-100Z-333225 TTH 10-11:50 AM L. HANN		\$504.00	\$52.00	\$0.00	\$556.00
OC LCT	COMM-100Z-337582 TTH 1-2:50 PM L. HANN		\$504.00	\$52.00	\$0.00	\$556.00

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

OC LCT	COMM-111Z-333226 MW 8-9:50 AM J. SMITH		\$504.00	\$52.00	\$20.00	\$576.00
REM LCT	COMM-111Z-333229 MW 8-9:50 AM K. HUGHES		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	COMM-111Z-333231 TTH 8-9:50 AM K. HUGHES		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	COMM-111Z-333233 TTH 8-9:50 AM TBA		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	COMM-111Z-333235 TTH 10-11:50 AM J. SMITH		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	COMM-111Z-333238 MW 10-11:50 AM J. HULT		\$504.00	\$52.00	\$20.00	\$576.00
REM LCT	COMM-111Z-333241 MW 10-11:50 AM K. HUGHES		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	COMM-111Z-333242 TTH 10-11:50 AM K. HUGHES		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	COMM-111Z-333245 TTH 10-11:50 AM TBA		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	COMM-111Z-333247 MW 1-2:50 PM TBA Required: Student Petition.		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	COMM-111Z-333250 TTH 1-2:50 PM TBA		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	COMM-111Z-333252 TH 6-9:50 PM K. DOSS		\$504.00	\$52.00	\$20.00	\$576.00

Other Coding Translations:

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

ESPAÑOL: Enseñado en español

LCT: Low-Cost Text

Course Listing

2024/FA

Course No	Course Title, Credits					
	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time		
	Instructor		Tuition	Fee	Crs. Fee	Total
HAR LCT	COMM-111Z- 30	333253 TTH			10-11:50 AM	
	J. SMITH		\$504.00	\$52.00	\$20.00	\$576.00
HAR LCT	COMM-111Z- 31	333256 MW			6-7:50 PM	
	J. NETZER		\$504.00	\$52.00	\$20.00	\$576.00

COMM-126 INTRODUCTION TO GENDER COMMUNICATION, 4 CREDITS

This course explores the relationships among communication, gender, sexuality, and other intersections of identity. We will examine how contact produces and perpetuates constructions and performances of gender, as well as how understandings of gender influence communication practices. We will learn about various approaches to the study of gender and communication, and we will identify predominant patterns of gendering that shape our culture.

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

OC LCT	COMM-126-01	333258 MW			1-2:50 PM	
	L. HANN		\$504.00	\$52.00	\$0.00	\$556.00

COMM-140 INTRODUCTION TO INTERCULTURAL COMMUNICATION, 4 CREDITS

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

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

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

OC HYB LCT	COMM-140-01	333262 F			10-11:50 AM	
	TBA					
	K. HUGHES		\$504.00	\$52.00	\$0.00	\$556.00
	Required: Student Petition. Students in this course will participate in the Ireland Study Abroad program Dec 8-20, 2024. Additional costs of program are not included in course fee.					

COMM-212 MASS MEDIA & SOCIETY, 4 CREDITS

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

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

OC LCT	COMM-212-01	333264 MW			10-11:50 AM	
	M. JONES		\$504.00	\$52.00	\$10.00	\$566.00

COMM-218Z INTERPERSONAL COMMUNICATION, 4 CREDITS

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

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

OC LCT	COMM-218Z- 01	333268 MW			10-11:50 AM	
	M. WILLIAMS		\$504.00	\$52.00	\$0.00	\$556.00

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

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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course No	Course Title, Credits					
	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time		
	Instructor		Tuition	Fee	Crs. Fee	Total
HAR	COMM-218Z- 30	333272 TTH			1-2:50 PM	
	J. SMITH		\$504.00	\$52.00	\$0.00	\$556.00

COMM-280 SPEECH/CWE, 2-6 CREDITS

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

Corequisites: CWE-281

ONL LCT	COMM-280-01	333274				
	K. HUGHES		\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Student Petition.					

Computer Science

CS-120 SURVEY OF COMPUTING, 4 CREDITS

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

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

OC HYB	CS-120-01	333280 W			10-11:50 AM	
	M				10-11:50 AM	
	M. SORRENTINO		\$504.00	\$52.00	\$20.00	\$576.00
	Section meets Mondays remote via Zoom from 10-11:50.					
	Section meets in-person on campus on Wednesdays from 10-11:50. Office 2021 version is used.					
ONL	CS-120-30	333285				
	M. SORRENTINO		\$504.00	\$52.00	\$20.00	\$576.00
	Office 2021 version is used.					

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

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

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

OC HYB	CS-125H-01	333287 T			10-11:50 AM	
	TH				10-11:50 AM	
	D. CARINO		\$504.00	\$52.00	\$20.00	\$576.00
	Section meets Tuesdays remote via Zoom from 10-11:50am.					
	Section meets in-person on campus on Thursdays from 10-11:50am.					
ONL	CS-125H-30	333292				
	D. CARINO		\$504.00	\$52.00	\$20.00	\$576.00

CS-135DB MICROSOFT ACCESS, 3 CREDITS

Focuses on the advanced database capabilities using a current version of Microsoft Access. Topics include design, construction, and documentation of a database management system, designing reports, forms, advanced form techniques, advanced queries, customizing tables, and creating and using an application system with macros.

Prerequisites: BA-131 or CS-120 or higher or placement into CS-135DB

OC HYB	CS-135DB-01	333293 W			10-11:20 AM	
	M				10-11:20 AM	
	D. CARINO		\$378.00	\$39.00	\$20.00	\$437.00
	Section meets Mondays remote via Zoom from 10-11:20am.					
	Section meets in-person on campus on Wednesdays from 10-11:20am.					

Course No	Course Title, Credits		Course No	Course Title, Credits	
Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU) Tuition Fee	Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU) Tuition Fee
Time Crs. Fee	Total		Time Crs. Fee	Total	
CS-135S MICROSOFT EXCEL, 3 CREDITS					
Focuses on advanced spreadsheet capabilities using a current version of Microsoft Excel. Topics include design, construction, and documentation of spreadsheets, use of templates, multiple worksheets, complex formulas, functions and filtering, Pivot Tables, advanced chart features, sorting, database capabilities, finding data, creating subtotals, using lookup tables, finding trends and forecasting, creating and editing macros, validating data, and working with controls.					
Prerequisites: BA-131 or CS-120 or higher or placement into CS-135S					
ONL	CS-135S-01	333294			
	D. HEINIG	\$378.00 \$39.00			
	Online textbook included in section fees.	\$73.43 \$490.43			
CS-140 INTRODUCTION TO OPERATING SYSTEMS, 4 CREDITS					
Introduction to the theory and practical foundations of the Windows, Linux/UNIX, and macOS desktop operating systems. Discussion of and practice with OS administration through installation, configuration, networking, security, and virtualization.					
Prerequisites: CS-120 or equivalent placement, and MTH-060 or placement in MTH-065, and WRD-098 or placement in WR-121Z					
OC HYB LCT	CS-140-01	333297 T			
	R. CARINO	\$504.00 \$52.00			
	Section meets Tuesdays remote via Zoom from 1-2:50pm.	\$20.00 \$576.00			
	Section meets in-person on campus on Thursdays from 1-2:50pm.				
CS-140L LINUX FOR PROGRAMMERS, 4 CREDITS					
Introduction to the Linux command line and software development tools. Covers how to use the command line and build tools, including VIM, GCC/G++, make, gdb, and others. Students will gain experience with the build tools by writing and debugging relatively complex programs in both C and C++.					
Prerequisites: CS-162					
ONL	CS-140L-30	337727			
	R. ALBERS	\$504.00 \$52.00			
		\$20.00 \$576.00			
CS-153 NETWORKING 3, 4 CREDITS					
This course describes the architectures and considerations related to designing, securing, operating, and troubleshooting enterprise networks. This course covers wide area network (WAN) technologies and quality of service (QoS) mechanisms used for secure remote access. It also introduces software-defined networking, virtualization, and automation concepts that support the digitalization of networks. This course, along with CS-151 and CS-152, covers the topics of the Cisco CCNA certification exam.					
Prerequisites: CS-152					
OC HYB LCT	CS-153-30	333300 T			
	R. CARINO	\$504.00 \$52.00			
	Section meets Tuesdays remote via Zoom from 10-11:50am.	\$0.00 \$556.00			
	Section meets in-person on campus on Thursdays from 10-11:50am.				
CS-160 COMPUTER SCIENCE ORIENTATION, 4 CREDITS					
Examines foundational computing subjects used in Computer Science and Information Technology. Topics include computer architecture, electronic logic, data representation, networking, algorithms and programming, which are used in successive Computer Science courses. Information about degrees in Computer Science and Information Technology is also covered.					
Recommended Prerequisites: MTH-060 or placement in MTH-065					
OC LCT	CS-160-01	333302 TTH			
	R. ALBERS	\$504.00 \$52.00			
		\$20.00 \$576.00			
ONL LCT	CS-160-02	333304			
	R. ALBERS	\$504.00 \$52.00			
		\$20.00 \$576.00			
ONL LCT	CS-160-03	333305			
	R. ALBERS	\$504.00 \$52.00			
		\$20.00 \$576.00			
CS-161 COMPUTER SCIENCE I, 4 CREDITS					
Introduction to fundamental concepts of structured programming, including problem solving, algorithm and program design, data types, loops, control structures, subroutines, and arrays. Learn to write structured programs in a high level programming language.					
Prerequisites: MTH-111Z or placement in MTH-112Z, or 4 years high school math					
OC	CS-161-01	333306 MW			
	J. MILLER	\$504.00 \$52.00			
		\$20.00 \$576.00			
ONL	CS-161-02	333307			
	J. MILLER	\$504.00 \$52.00			
		\$20.00 \$576.00			
ONL	CS-161-03	333309			
	J. MILLER	\$504.00 \$52.00			
		\$20.00 \$576.00			
CS-225 COMPUTER END USER SUPPORT, 3 CREDITS					
Addresses professional and interpersonal skills needed by technicians who support and manage hardware and software information systems. Customer service skills; troubleshooting; helpdesk operation; product needs analysis, evaluation, purchase, and installation; technical documentation and training.					
Prerequisites: CS-120 or placement in CS-121 or equivalent experience. WRD-098 or placement in WR-101 or WR-121Z					
ONL	CS-225-30	333311			
	R. CARINO	\$378.00 \$39.00			
		\$20.00 \$437.00			
CS-227 COMPUTER HARDWARE & REPAIR, 4 CREDITS					
An in-depth course in computer hardware. Covers operational concepts, identification, installation, configuration, and troubleshooting of power supplies, motherboards, microprocessors, memory modules, disk drives, optical drives, and expansion cards. This course, in conjunction with CS-228, covers the topics of the CompTIA A+ certification exam.					
OC	CS-227-01	333314 W			
	R. ALBERS	\$504.00 \$52.00			
		\$20.00 \$576.00			
CS-233W FULL-STACK WEB DEVELOPMENT I, 4 CREDITS					
Begin exploring the power of server-side JavaScript using Node.js, NPM, and Express. Students will: use server-side JavaScript to implement common packages and bundle their own applications for consumer use; build custom web server applications to respond directly to HTTP requests; create, query, and manage NoSQL databases; and create views to combine user requests, database data, and static content into responsive, data-driven web applications.					
Prerequisites: CS-133J					
OC HYB	CS-233W-01	337728 W			
	D. CARINO	\$504.00 \$52.00			
	Section meets Mondays remote via Zoom from 1-3:50pm.	\$0.00 \$556.00			
	Section meets in-person on campus on Wednesdays from 1-3:50pm.				
CS-240L LINUX ADMINISTRATION I, 4 CREDITS					

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

Distance Education Notification:
ONL: Online Only
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

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

Covers the fundamentals of the Linux operating system. Topics include: system architecture, installation, command line and file system. This course, along with CS-241L, covers the topics of the Linux LPIC-1 (or CompTIA Linux+) certification exam.

Prerequisites: CS-140

ONL LCT	CS-240L-30	333318	R. CARINO			\$504.00	\$52.00	\$20.00		\$576.00
---------	-------------------	---------------	-----------	--	--	----------	---------	---------	--	----------

CS-260 DATA STRUCTURES, 4 CREDITS

Covers common data structures used for the storage and manipulation of data, as well as data abstraction, sorting algorithms, and algorithm analysis. Data structures include linked lists, stacks, queues, binary trees, btrees, hash tables, and graphs.

Prerequisites: CS-162

ONL	CS-260-01	333320	J. MILLER			\$504.00	\$52.00	\$20.00		\$576.00
-----	------------------	---------------	-----------	--	--	----------	---------	---------	--	----------

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

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

Corequisites: CWE-281

ONL LCT	CS-280-01	333322	J. MILLER			\$756.00	\$78.00	\$45.00		\$879.00V
Required: Student Petition. Restricted to computer science students. Corequisite: Take the following CWE-281-05.										

Computer-Aided Drafting Technology

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

CDT-102 SKETCHING & PROBLEM SOLVING, 3 CREDITS

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

OC	CDT-102-01	333780 TTH	C. CONNORS			\$378.00	\$39.00	\$153.75		\$570.75
----	-------------------	-------------------	------------	--	--	----------	---------	----------	--	----------

CDT-223 INVENTOR FUNDAMENTALS, 3 CREDITS

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

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

REM	CDT-223-01	333782 MW	M. ROTUNDO			\$378.00	\$39.00	\$153.75		\$570.75
-----	-------------------	------------------	------------	--	--	----------	---------	----------	--	----------

Cooperative Work Experience

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

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

CWE-281 COOPERATIVE WORK EXPERIENCE SEMINAR, 0 CREDIT

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

Corequisites: Program specific CWE course

ONL LCT	CWE-281-03	333172	M. LAFORCE			\$0.00	\$0.00	\$0.00		\$0.00
Required: Student Petition. Restricted to Water & Environmental Technology students. Contact: laforce@clackamas.edu or 503-594-3148.										
ONL LCT	CWE-281-05	333173	J. MILLER			\$0.00	\$0.00	\$0.00		\$0.00
Required: Student Petition. Restricted to Computer Science students. Contact: jen.miller@clackamas.edu or 503-594-3138.										
ONL LCT	CWE-281-06	333174	J. STAPLETON			\$0.00	\$0.00	\$0.00		\$0.00

Criminal Justice

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

CJA-101 CRIMINOLOGY, 4 CREDITS

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

HAR HYB LCT	CJA-101-01	333155 M	J. CRAWFORD			\$504.00	\$52.00	\$0.00		\$556.00
ONL LCT	CJA-101-02	333156	W. BABST			\$504.00	\$52.00	\$0.00		\$556.00
ONL	CJA-101-03	333157	J. CRAWFORD			\$504.00	\$52.00	\$0.00		\$556.00

CJA-110 INTRODUCTION TO LAW ENFORCEMENT, 3 CREDITS

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

HAR HYB	CJA-110-01	333158 T	J. JONES			\$378.00	\$39.00	\$20.00		\$437.00
Meets: Every other Tuesday 6-7:50pm (10/3, 10/17, 10/31, 11/14, 11/28).										

CJA-122 CRIMINAL LAW, 4 CREDITS

Course No	Course Title, Credits					
Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time			
Instructor	Tuition	Fee	Crs. Fee	Total		
This course examines the elements, purpose and functions of criminal, traffic, juvenile and liquor laws. Studies historical development, philosophy of law, and constitutional provisions. Examines definition and classification of crime, application of administration of justice, legal research, study of case law, methodology and concepts of law as a social force.						
HAR LCT	CJA-122-01	333159 T	6-9:20 PM			
	S. HEALY	\$504.00	\$52.00	\$0.00	\$556.00	
ONL LCT	CJA-122-02	333160				
	W. BABST	\$504.00	\$52.00	\$0.00	\$556.00	

CJA-206 TRAUMA INFORMED PRACTICES, 3 CREDITS

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

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

ONL LCT	CJA-206-01	333161				
	J. CRAWFORD	\$378.00	\$39.00	\$0.00	\$417.00	

CJA-210 CRIMINAL INVESTIGATION I, 3 CREDITS

Introduces the history, theory and principles of criminal investigation in the criminal justice system. Describes crime scene investigation and courtroom aspects of crime scenes including interviews, evidence, follow-up, case preparation, and investigative techniques.

Prerequisites: CJA-110 with a C or better

ONL LCT	CJA-210-01	333162				
	W. BABST	\$378.00	\$39.00	\$0.00	\$417.00	

CJA-214 INTIMATE PARTNER VIOLENCE, 3 CREDITS

This course will analyze the historical, social, legal, and psychological aspects of Intimate Partner Violence. Includes definitions of the problem, demographics, survivors, perpetrators, children who witness, strategies and tactics of abuse and survival, and core strategies for legal intervention.

Prerequisites: CJA-203 or HS-100

HAR HYB LCT	CJA-214-01	333163 TH	1-2:20 PM			
	J. CRAWFORD	\$378.00	\$39.00	\$0.00	\$417.00	

CJA-223 CRIMINAL JUSTICE ETHICS, 3 CREDITS

Surveys common ethical frameworks and then examines ethical issues, questions, challenges and consequences facing criminal justice professionals, including law enforcement, corrections, the courts and others.

HAR HYB	CJA-223-01	333164 T	6-7:50 PM			
	J. JONES	\$378.00	\$39.00	\$0.00	\$417.00	
	Meets: Every other Tuesday 6-7:50pm (9/26, 10/10, 10/24, 11/7, 11/21, 12/5).					

CJA-252 INTRODUCTION TO RESTORATIVE JUSTICE, 3 CREDITS

Provides a critical introduction to restorative justice. Covers fundamental values and principles of restorative justice, and the experience and interests of key stakeholders (victims, offenders, communities, and systems).

Course No	Course Title, Credits					
Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time			
Instructor	Tuition	Fee	Crs. Fee	Total		
ONL LCT	CJA-252-01	333165				
	J. CRAWFORD	\$378.00	\$39.00	\$0.00	\$417.00	
CJA-280 CRIMINAL JUSTICE/CORRECTIONS/CWE, 2-6 CREDITS						
Cooperative work experience. Supervised experience in criminal justice, corrections, juvenile corrections, or related occupations. May be repeated for up to 6 credits. Required: Student Petition.						
Prerequisites: CJA-170						
Corequisites: CWE-281						

ONL LCT	CJA-280-01	333166				
	J. CRAWFORD	\$756.00	\$78.00	\$45.00	\$879.00V	
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

CJA-281 CRIMINAL JUSTICE/CORRECTIONS/CWE, 2-6 CREDITS

Cooperative work experience. Supervised experience in criminal justice, corrections, juvenile corrections, or related occupations. May be repeated for up to 6 credits. Required: Student Petition.

Prerequisites: CJA-170 and CJA-280

Corequisites: CWE-281

ONL LCT	CJA-281-01	333167				
	J. CRAWFORD	\$756.00	\$78.00	\$45.00	\$879.00V	
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

Dental Assistant

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

DA-101 DENTAL RADIOLOGY I, 2 CREDITS

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

Required: Acceptance into Dental Assistant program

Corequisites: DA-101L

HAR	DA-101-01	333175 T	12-1:50 PM			
	K. HIATT	\$252.00	\$26.00	\$175.00	\$453.00	
	Required: Student Petition.					

DA-101L DENTAL RADIOLOGY I LAB, 1 CREDIT

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

Required: Acceptance into Dental Assistant program

Corequisites: DA-101

HAR HYB	DA-101L-01	333176 T	9-11:50 AM			
	M. BUTKOVICH	\$126.00	\$13.00	\$0.00	\$139.00	
	K. HIATT	Required: Student Petition.				
HAR HYB	DA-101L-02	333177 T	2-4:50 PM			
	M. BUTKOVICH	\$126.00	\$13.00	\$0.00	\$139.00	
	E. GORDON	Required: Student Petition.				

DA-104 CLINICAL PROCEDURES I, 2 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

Course No							Course Title, Credits						
Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Total	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Total
Instructor					Crs. Fee		Instructor					Crs. Fee	
Discussion in the practice of patient care including the collection of patient medical and dental histories and maintenance of accurate treatment records. Explores the history of dentistry, dental ethics, law, and HIPAA. The dental healthcare team, dental office design and the dental profession will also be discussed. Required: Student Petition.													
Required: Acceptance into Dental Assistant program													
Corequisites: DA-104L													
ONL	DA-104-01	333178					HAR HYB	DA-110-01	333184 W			8-5:00 PM	
	M. BUTKOVICH		\$252.00	\$26.00	\$225.00	\$503.00		K. HIATT		\$126.00	\$13.00	\$125.00	\$264.00
	Required: Student Petition.							Required: Student Petition. Meets: 11/13, 11/20, 11/27, 12/4, 12/11. Mandatory orientation on Wednesday, October 23, 2024 from 9 AM - Noon on the Harmony Campus.					
DA-104L CLINICAL PROCEDURES I LAB, 1 CREDIT													
This course prepares the student for basic chairside assisting and general procedures. Application of essential skills in seating and dismissing patients, ergonomics, taking and recording vital signs, and infection control are taught and practiced in a dental laboratory setting. Required: Student Petition.													
Required: Acceptance into Dental Assistant program													
Corequisites: DA-104													
HAR HYB	DA-104L-01	333179 TH			9-11:50 AM		ONL	DA-115-01	333185				
	A. SLUITER		\$126.00	\$13.00	\$0.00	\$139.00		R. MASCARENHAS		\$252.00	\$26.00	\$125.00	\$403.00
	Required: Student Petition.							Required: Student Petition.					
HAR HYB	DA-104L-02	333180 TH			2-4:50 PM								
	A. SLUITER		\$126.00	\$13.00	\$0.00	\$139.00							
	Required: Student Petition.												
DA-107 DENTAL MATERIALS I, 2 CREDITS													
This course is an in-depth level of instruction in the composition and manipulation of dental restorative materials, and dental cements. Examination of general dentistry and chairside assisting with direct permanent restorations such as amalgam and composite will also be covered. Required: Student Petition.													
Required: Acceptance into Dental Assistant program													
Corequisites: DA-107L													
HAR HYB	DA-107-01	333181 F			12-1:50 PM								
	K. HIATT		\$252.00	\$26.00	\$260.00	\$538.00							
	Required: Student Petition. Flipped classroom. Meets via Zoom for one hour a week.												
DA-107L DENTAL MATERIALS I LAB, 1 CREDIT													
This course covers the application of the essential skills necessary in assisting with amalgam and composite restorations. Covers tray-set-ups, pre and post-operative instructions, instrument transfer, and oral evacuation with amalgam and composite procedures. The identification and application of dental cements used in general dentistry will also be covered. Includes manipulation, storage and disposal of hazardous dental materials and cements. Required: Student Petition.													
Required: Acceptance into Dental Assistant program													
Corequisites: DA-107													
HAR HYB	DA-107L-01	333182 F			9-11:50 AM								
	M. BUTKOVICH		\$126.00	\$13.00	\$0.00	\$139.00							
	Required: Student Petition.												
HAR HYB	DA-107L-02	333183 F			2-4:50 PM								
	M. BUTKOVICH		\$126.00	\$13.00	\$0.00	\$139.00							
	Required: Student Petition.												
DA-110 CLINICAL PRACTICUM I, 1 CREDIT													
Clinical practicum begins in the seventh week of class. Students begin to apply basic dental assisting procedures taught in weeks one through six. OSHA, hazard communication and infection control are followed for student and patient safety. A minimum of 8 supervised unpaid hours per week is required for term one practicum. Students will participate in one seminar held prior to clinical practicum. Required: Student Petition.													
Required: Acceptance into Dental Assistant program													
DA-115 DENTAL SCIENCE, 2 CREDITS													
Introduction and general study of anatomy, physiology, and oral pathology. An in-depth level course of study in oral anatomy, histology and embryology. Introduction to charting will also be covered. Required: Student Petition.													
Required: Acceptance into Dental Assistant program													
DA-125 DENTAL INFECTION CONTROL, 2 CREDITS													
This course covers the introduction and general study of microbiology, major groups of microorganisms, viral and bacterial diseases. Disease transmission, infection prevention, disinfection and instrument processing techniques will also be covered. An in-depth level of the Bloodborne Pathogens Standards and Hazard Communication will be taught and integrated throughout the didactic, preclinical, laboratory and clinical course of study. Required: Student Petition.													
Required: Acceptance into Dental Assistant program													
HAR HYB	DA-125-01	333186 TH			12-1:50 PM								
	K. HIATT		\$252.00	\$26.00	\$40.00	\$318.00							
	Required: Student Petition. Flipped classroom. Meets via Zoom for one hour per week.												
Digital Media Communications													
DMC-100 INTRODUCTION TO MEDIA ARTS, 3 CREDITS													
Presents an overview of career opportunities in the media industry. Introduces basic principles common to success in the media industry, common media industry entrance strategies, health and safety best practices and the history of the industry from film to online media. In addition, this course will cover basic theories behind what shapes and drives the media industry.													
OC LCT	DMC-100-01	333149 MW			6-7:20 PM								
	M. DEVENDORF		\$378.00	\$39.00	\$30.00	\$447.00							
DMC-104 DIGITAL VIDEO EDITING, 4 CREDITS													
Students will utilize video editing skills. These skills will include logging and capturing raw video, assembly of shots on a time line, and the use of effects in the creation of a final video sequence. Along with text generation, audio balancing, audio sweetening and video compositing, this course will offer students an in-depth overview of the video editing process. Course will explore the history of film editing and the theory behind various forms of film and video editing. Lab component included.													
Recommended Prerequisites: WRD-090 or placement in WR-121Z													
OC LCT	DMC-104-01	333845 MW			9-11:50 AM								
	M. DEVENDORF		\$504.00	\$52.00	\$106.00	\$662.00							

Digital Media Communications

DMC-100 INTRODUCTION TO MEDIA ARTS, 3 CREDITS

Presents an overview of career opportunities in the media industry. Introduces basic principles common to success in the media industry, common media industry entrance strategies, health and safety best practices and the history of the industry from film to online media. In addition, this course will cover basic theories behind what shapes and drives the media industry.

OC LCT	DMC-100-01	333149 MW	M. DEVENDORF			\$378.00	\$39.00	\$30.00		\$447.00
--------	------------	-----------	--------------	--	--	----------	---------	---------	--	----------

DMC-104 DIGITAL VIDEO EDITING, 4 CREDITS

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

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

OC LCT	DMC-104-01	333845 MW	M. DEVENDORF			\$504.00	\$52.00	\$106.00		\$662.00
--------	------------	-----------	--------------	--	--	----------	---------	----------	--	----------

Campus Locations:

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

Distance Education Notification:

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

Other Coding Translations:

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

ESPAÑOL: Enseñado en español

LCT: Low-Cost Text

Course Listing

2024/FA

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

DMC-106 ANIMATION & MOTION GRAPHICS I, 4 CREDITS

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

Recommended Prerequisites: DMC-104 or DMC-225

OC LCT	DMC-106-01	333847 TTH		1-3:50 PM		
	T. WASSON	\$504.00	\$52.00	\$106.00	\$662.00	

DMC-109 INTRODUCTION TO STOP MOTION ANIMATION, 4 CREDITS

Introduces basic stop motion animation tools, materials, techniques and elements of storyboarding, scripting, narrative development, compositing, special effects and audio integration into a final group film. Assignments include character development, rigging, set creation, photography, video compositing, and audio recording and synching. Uses digital cameras and industry-standard stop motion software.

Recommended Prerequisites: DMC-106 and DMC-225

OC LCT	DMC-109-01	333852 MW		1-3:50 PM		
	T. WASSON	\$504.00	\$52.00	\$106.00	\$662.00	

DMC-147 MUSIC, SOUND & MOVIE MAKING, 1 CREDIT

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

oc	DMC-147-01	333150 F		6:30 -8:50 PM		
	S			9-5:50 PM		
	B. ROSE	\$126.00	\$13.00	\$99.00	\$238.00	
	Meets: 10/18 & 10/19.					

DMC-225 COMPUTER GRAPHICS I, 4 CREDITS

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

Recommended Prerequisites: ART-115

OC LCT	DMC-225-01	337015 MW		1-3:50 PM		
	T. WASSON	\$504.00	\$52.00	\$106.00	\$662.00	
OC LCT	DMC-225-02	337016 TTH		9-11:50 AM		
	B. THWING	\$504.00	\$52.00	\$106.00	\$662.00	

DMC-247 SOUND FOR MEDIA, 3 CREDITS

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

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

OC LCT	DMC-247-01	333151 W		3-5:50 PM		
	B. ROSE	\$378.00	\$39.00	\$90.00	\$507.00	

DMC-264 DIGITAL FILMMAKING, 4 CREDITS

Explores the process of translating a written script into a digital film via pre-production, lighting, shooting, and post-video production.

Recommended Prerequisites: WRD-090 or placement in WRD-098, WRD-098 or placement in WR-121Z, or Student Petition

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

OC LCT	DMC-264-01	333853 MW		1-3:50 PM		
	M. DEVENDORF	\$504.00	\$52.00	\$106.00	\$662.00	

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

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

Corequisites: CWE-281

ONL LCT	DMC-280-02	333856				
	T. WASSON	\$756.00	\$78.00	\$45.00	\$879.00V	
	Required: Student Petition.					

Economics

EC-201 PRINCIPLES OF ECONOMICS: MICRO, 4 CREDITS

Focuses on microeconomic theory dealing with the behavior of individuals and profit-maximizing firms in market structures with varying degrees of competition. Coverage includes price theory, international trade, consumer behavior, the theory of the firm, and the potential role of government in affecting market outcomes.

Prerequisites: MTH-020 or placement in MTH-098

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

OC LCT	EC-201-01	333890 MW		10-11:50 AM		
	D. LOUGEE	\$504.00	\$52.00	\$0.00	\$556.00	
	Online textbook provided first day of class.					

ONL LCT	EC-201-02	333894				
	TBA	\$504.00	\$52.00	\$0.00	\$556.00	
	Online textbook provided first day of class.					

HAR LCT	EC-201-15	333895 T		6-9:50 PM		
	TBA	\$504.00	\$52.00	\$0.00	\$556.00	
	Online textbook provided first day of class.					

EC-202 PRINCIPLES OF ECONOMICS: MACRO, 4 CREDITS

Introduction to economic theory, policy, and institutions. Focuses on macroeconomic theory, money, unemployment, inflation, fiscal and monetary policies, international finance, and economic growth.

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

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

OC LCT	EC-202-01	333897 TTH		3-4:50 PM		
	D. LOUGEE	\$504.00	\$52.00	\$0.00	\$556.00	
	Online textbook provided first day of class.					

ONL LCT	EC-202-02	333901				
	TBA	\$504.00	\$52.00	\$0.00	\$556.00	
	Online textbook provided first day of class.					

Education

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

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

ONL LCT	ECE-150-01	333905				
	D. GLASCOCK	\$504.00	\$52.00	\$0.00	\$556.00	

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

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

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

REM LCT ESPAÑOL	ECE-150ES-01 333906 M	6-7:50 PM				
	L. JAMES		\$504.00	\$52.00	\$0.00	\$556.00
	La clase se reúne seis Lunes por Zoom (9/30, 10/14, 10/28, 11/11, 11/25, 12/9).					

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

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

REM LCT ESPAÑOL	ECE-154ES-01 333908 T	6-7:50 PM				
	M. GARCIA AVILEZ		\$504.00	\$52.00	\$0.00	\$556.00
	La clase se reúne seis Martes por Zoom (10/1, 10/15, 10/29, 11/12, 11/26, 12/10).					

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

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

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

ONL LCT ESPAÑOL	ECE-179ES-01 333910					
	A. ECHEVARRIA		\$504.00	\$52.00	\$0.00	\$556.00

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

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

Prerequisites: ECE-121

REM	ECE-221-01 333912 TH	5-6:50 PM				
	B. KING		\$504.00	\$52.00	\$0.00	\$556.00
	This section meets from 5:00pm-6:50pm on the following Thursdays: 10/3, 10/17, 10/31, 11/14, 12/5.					

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

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

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

REM LCT ESPAÑOL	ECE-221ES-01 333915 TH	6-7:50 PM				
	Y. SANCHEZ		\$504.00	\$52.00	\$0.00	\$556.00
	La clase se reúne cinco Jueves por Zoom (10/3, 10/17, 10/31, 11/14, 12/5 de 6:00PM a 7:50PM).					

REM LCT ESPAÑOL	ECE-221ES-02 333918 M	6-7:50 PM				
	Y. SANCHEZ		\$504.00	\$52.00	\$0.00	\$556.00
	La clase se reúne cinco Lunes por Zoom (9/30, 10/14, 10/28, 11/18, y 12/2 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.

REM LCT ESPAÑOL	ECE-240ES-01 333929 W	6-7:50 PM				
	Y. SANCHEZ		\$504.00	\$52.00	\$0.00	\$556.00
	La clase se reúne cinco miercoles por Zoom (10/2, 10/16, 10/30, 11/13, and 12/4).					

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

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

ONL LCT	ECE-241-01 333930					
	D. HENDRICKS		\$378.00	\$39.00	\$0.00	\$417.00

ECE-241ES AMBIENTES Y PLANIFICACIÓN CURRICULAR PARA BEBÉS Y NIÑOS PEQUEÑOS, 4 CREDITS

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

REM LCT ESPAÑOL	ECE-241ES-01 333933 M	6-7:50 PM				
	R. TORRES		\$504.00	\$52.00	\$0.00	\$556.00
	La clase se reúne seis Lunes por Zoom (9/30, 10/14, 10/28, 11/11, 11/25, y 12/9 de 6:00PM a 7:50PM).					

REM LCT ESPAÑOL	ECE-241ES-02 333937 M	6-7:50 PM				
	R. TORRES		\$504.00	\$52.00	\$0.00	\$556.00
	La clase se reúne cinco Lunes por Zoom (10/7, 10/21, 11/4, 11/18, y 12/2 de 6:00PM- 7:50PM).					

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

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total	Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
		Instructor		Tuition	Fee	Crs. Fee			Instructor		Tuition	Fee	Crs. Fee
ECE-246ES	RELACIONES ENTRE LA ESCUELA, LA FAMILIA Y LA COMUNIDAD, 4 CREDITS												
Este curso se concentra en el conocimiento y las habilidades para trabajar eficazmente con las familias y la comunidad y con otros profesionales en educación infantil (6 semanas de edad hasta tercer grado). El énfasis está en construir y mantener relaciones positivas para fomentar la cooperación y el respeto mutuo entre los profesionales en la primera infancia y las familias de los niños con quienes trabajan.													
REM LCT	ECE-246ES-01 333938 W							ONL LCT	ED-113-01 333944				
ESPAÑOL	B. MARRON	\$504.00	\$52.00	\$0.00	\$556.00			L. SCOTT	\$378.00	\$39.00	\$43.75	\$460.75	
	La clase se reúne cinco Miercoles por Zoom (10/2, 10/16, 10/30, 11/13, y 12/4 de 6:00 PM to 7:50PM).							Online textbook included in section fees.					
ECE-280	EARLY CHILDHOOD EDUCATION/CWE, 3 CREDITS							ED-114	INSTRUCTIONAL STRATEGIES FOR MATH, 3 CREDITS				
Cooperative work experience. Provides students with on-the-job experience in the field of early childhood education. Students will work in pre-approved educational settings that serve children from six weeks old through age eight. Required: Student Petition.													
Corequisites: CWE-281													
Prerequisites: ECE-121, ECE-150, and ECE-154													
REM LCT	ECE-280-01 333939							ONL LCT	ED-114-01 333945				
	D. GLASCOCK	\$378.00	\$39.00	\$45.00	\$462.00			TBA	\$378.00	\$39.00	\$0.00	\$417.00	
	Required: Student Petition. Corequisite: Take the following CWE-281-06.												
ECE-292ES	PRACTICUM III, 4 CREDITS							ED-130	COMPREHENSIVE CLASSROOM MANAGEMENT, 3 CREDITS				
Este curso se enfoca en la experiencia de trabajo de los estudiantes con varios entornos educacionales en salones de clases enfocadas directamente con la enseñanza y supervisión de niños desde el nacimiento hasta el kínder. Este curso permite a los estudiantes aplicar conocimientos y metodologías adquiridas en los cursos de educación infantil, y sean transferibles a las habilidades requeridas en un ambiente educacional entre 0 a 8 años de edad. Los seminarios obligatorios abarcan la revisión de los dominios del desarrollo, los ámbitos de aprendizaje, las experiencias reales en el salón de clases, resolución de problemas, desarrollo del plan de estudios, técnicas de evaluación y la orientación del aprendizaje y la conducta de los niños.													
Prerequisites: ECE-291ES													
REM	ECE-292ES-01 337573 F							ONL LCT	ED-130-01 333946				
ESPAÑOL	Y. SANCHEZ	\$504.00	\$52.00	\$0.00	\$556.00			L. SCOTT	\$378.00	\$39.00	\$43.75	\$460.75	
	Required: Student Petition. La clase se reúne cinco Viernes por Zoom: 10/4, 10/18, 11/1, 11/15, y 12/6 de 6:00pm-8:50pm.							Online textbook included in section fees.					
ED-101	INTRO TO EDUCATION PRACTICUM & SEMINAR, 4 CREDITS							ED-216	FOUNDATIONS OF TEACHING & EDUCATION, 4 CREDITS				
This seminar presents critical topics associated with the Education profession. Each topic will be introduced with an understanding that future Education classes will expand student comprehension and knowledge to a mastery level. Students are also required to participate in a 60 hour practicum experience in a K-12 school to provide the opportunity to gain experience with the various educational issues discussed in class. Required: Student Petition.													
oc	ED-101-01 333942 T							OC	ED-216-01 333947 TTH				
	TBA							L. SCOTT	\$504.00	\$52.00	\$43.75	\$599.75	
	L. SCOTT	\$504.00	\$52.00	\$0.00	\$556.00			Online textbook included in section fees.					
	Required: Student Petition.							ONL	ED-216-02 333948				
ED-113	INSTRUCTIONAL STRATEGIES FOR LITERACY, 3 CREDITS							L. SCOTT	\$504.00	\$52.00	\$43.75	\$599.75	
Online textbook included in section fees.													
ED-220	INTRODUCTION TO CTE IN OREGON, 3 CREDITS							ONL LCT	ED-220-01 333950				
Provides an introduction to the field of Career and Technical Education (CTE) in Oregon. Examines the historical and legislative foundations of CTE in the United States. Discusses the role of special populations in CTE programs. Provides an overview of high quality CTE programs, CTE licensure preparation, and student organizations. Addresses current trends and issues in the field.													
								M. HELZERMAN	\$378.00	\$39.00	\$0.00	\$417.00	

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

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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Crs. Fee	Total
		Instructor						
ED-246	SCHOOL, FAMILY & COMMUNITY RELATIONS, 4 CREDITS							
This course focuses on the knowledge and skills to work effectively with families and community professionals in early childhood education (6 weeks of age through 3rd grade). Emphasis is on building and maintaining positive relationships to foster cooperation and mutual respect between early childhood professionals and the families of the children with whom they are working.								
ONL	ED-246-01 337574							
	D. HENDRICKS	\$504.00	\$52.00	\$0.00	\$556.00			

Educational Focus Area

EFA-101C	INTRODUCTION TO THE CREATIVE ARTS COMMUNICATION AND HUMANITIES, 2 CREDITS							
This course engages students in the creative process of making meaning within the creative arts, communications, and humanities, and invites them to view themselves, others, and the world through story, while discovering academic and career possibilities.								
OC	EFA-101C-01 333326 M							
	S. MACH	\$252.00	\$26.00	\$0.00	\$278.00			

EFA-101J	INTRODUCTION TO THE SOCIAL SCIENCES, HUMAN SERVICES AND CRIMINAL JUSTICE, 2 CREDITS							
Introduces career options and educational pathways in the fields of the Social Sciences, Human Services and Criminal Justice. Explores the history of and current methods and issues in these three areas of learning and service. Students will gain an understanding of academic and career options and get a taste of what further study will look like in each of these three areas and how they relate to one another.								
OC LCT	EFA-101J-01 333328 F							
	Y. SMITH	\$252.00	\$26.00	\$0.00	\$278.00			

EFA-101S	INTRODUCTION TO STEM, 2 CREDITS							
This course will feature activities, demonstrations, and real world experiences in STEM fields, including environmental science, biology, chemistry, geology, physics, engineering, computer science, and mathematics. Students will gain an understanding of academic and career options and get a taste of what further study will look like in each STEM discipline.								
REM	EFA-101S-01 333329 TTH							
	E. LEE	\$252.00	\$26.00	\$0.00	\$278.00			

Electronics & Microelectronics

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

EET-112	ELECTRONIC EQUIPMENT AND ASSEMBLY I, 1 CREDIT							
This is the first course in a three course sequence. Focus is on building and testing simple DC prototype circuits. Covers DC power supplies, DMMs, breadboarding, resistor codes, and capacitor codes. Spreadsheets will be used to organize and analyze data.								
OC	EET-112-01 333857 MW							
	W. SELLEVAAG	\$126.00	\$13.00	\$43.50	\$182.50			

EET-127 SEMICONDUCTOR CIRCUITS I, 2 CREDITS

Introduction to the basic concepts of semiconductor devices. Various types of diodes and diode applications will be studied. Industry standard devices will be used.								
Prerequisites: EET-142								
Recommended Prerequisites: MTH-112Z								
OC	EET-127-01 333858 MW							
	W. SELLEVAAG	\$252.00	\$26.00	\$87.00	\$365.00			

EET-137	ELECTRICAL FUNDAMENTALS I, 4 CREDITS							
Introduction to the basic concepts of voltage, current, resistance and their relationships in DC circuits. Use SI units, engineering notation and prefixes. Analysis of series, parallel and series-parallel circuits will be made using Ohm's & Kirchhoff's laws.								
Prerequisite or Corequisite: EET-112 and MTH-095								
OC	EET-137-01 333859 MW							
	M. FARRELL	\$504.00	\$52.00	\$174.00	\$730.00			

EET-139	PRINCIPLES OF TROUBLESHOOTING I, 2 CREDITS							
Emphasizes theories and practices useful in troubleshooting failures in electrical applications. Focuses on the overall philosophy and strategy of troubleshooting, drawing applications from residential and varied industrial situations. Includes laboratory projects.								
Recommended Prerequisite or Corequisite: EET-112, and EET-137 or MFG-130								
OC	EET-139-01 333863 TH							
	M. TIZO	\$252.00	\$26.00	\$87.00	\$365.00			

EET-157	DIGITAL LOGIC I, 3 CREDITS							
An introduction to digital logic principles, numbering systems & conversions and gate operations. Using principles, circuit analysis will be used to minimize logic networks. Industry standard devices will be used.								
Prerequisite or Corequisite: EET-112								
Recommended Prerequisites: MTH-065								
OC	EET-157-01 333865 MW							
	J. LEE	\$378.00	\$39.00	\$130.50	\$547.50			

EET-215	TECHNICAL MECHANICS, 3 CREDITS							
Introduction to mechanics. Covers theory of force, work, torque, energy, power, strength, and motion. Vectors and simple machines provide applications for these concepts.								
Prerequisites: MTH-080 or MTH-112Z or EET-142								
OC HYB LCT	EET-215-01 333867 MW							
	M. MATTSON	\$378.00	\$39.00	\$130.50	\$547.50			

EET-239	PRINCIPLES OF TROUBLESHOOTING II, 2 CREDITS							
Covers advanced applications of diagnosis, maintenance and repair of systems. Includes preventative maintenance, applied statistical process, and AC/DC motor controls.								
Prerequisites: EET-139; EET-141 or MFG-131								
Recommended Prerequisites: IMT-223								
OC	EET-239-01 333869 TH							
	M. FARRELL	\$252.00	\$26.00	\$87.00	\$365.00			

SM-150	SEMICONDUCTOR PROCESSING I, 2 CREDITS							
Provides general background knowledge on the processes required to manufacture integrated circuit devices, beginning with silicon material preparation and ending with final assembly and test of a completed device. Micro-contamination is also covered.								

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

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	SM-150-01 334180 F					
	W. SELLEVAAG			\$252.00	\$26.00	\$87.00
						\$365.00

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

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

Corequisites: CWE-281

ONL	SM-280-01 334182					
	M. MATTSON			\$756.00	\$78.00	\$255.00
	Required: Student Petition. Corequisite: Take the following					\$1,089.00V
	CWE-281-06.					

Emergency Medical Technology

EMT-101 EMERGENCY MEDICAL TECHNICIAN PART I, 6 CREDITS

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

Required: Acceptance into the current EMT cohort

Prerequisites: EMT-105 with a C or better

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

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

HAR HYB	EMT-101-01 333187 MWF					
	T. SAWZAK			\$756.00	\$78.00	\$400.00
	Required: Student Petition. Contact					\$1,234.00
	healthsciences@clackamas.edu for enrollment information.					

EMT-105 INTRODUCTION TO EMERGENCY MEDICAL SERVICES, 3 CREDITS

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

ONL	EMT-105-01 333188					
	T. SAWZAK			\$378.00	\$39.00	\$0.00
						\$417.00
ONL	EMT-105-02 333189					
	T. SAWZAK			\$378.00	\$39.00	\$0.00
						\$417.00

Engineering

ENGR-111 INTRODUCTION TO ENGINEERING, 3 CREDITS

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

Prerequisite or Corequisite: MTH-111Z or higher

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
OC	ENGR-111-01 333870 MW					
	E. LEE			\$378.00	\$39.00	\$10.00
						\$427.00
OC	ENGR-111-02 333873 TTH					
	E. LEE			\$378.00	\$39.00	\$10.00
						\$427.00

ENGR-112 ENGINEERING PROGRAMMING, 3 CREDITS

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

Prerequisite or Corequisite: MTH-112Z or higher

OC	ENGR-112-01 333874 MW					
	E. LEE			\$378.00	\$39.00	\$0.00
						\$417.00

ENGR-211 STATICS, 4 CREDITS

First term of engineering mechanics sequence. This course focuses on the study of force systems acting on articles or rigid bodies under equilibrium conditions.

Prerequisites: MTH-252

Prerequisite or Corequisite: PH-211

OC	ENGR-211-01 333875 MW					
	E. LEE			\$504.00	\$52.00	\$20.00
						\$576.00

ENGR-221 ELECTRICAL CIRCUIT ANALYSIS I, 4 CREDITS

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

Corequisites: ENGR-221L

Prerequisites: MTH-252

OC	ENGR-221-01 333877 T					
	M. FARRELL			\$504.00	\$52.00	\$52.00
						\$608.00

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

Lab Course for ENGR-221. Must be taken concurrently with ENGR-221.

Corequisites: ENGR-221

OC	ENGR-221L-01 333879 TH					
	M. FARRELL			\$0.00	\$0.00	\$0.00
						\$0.00

English for Speakers of Other Languages

ESOL-012 BEGINNING ESOL, 0 CREDIT

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

OC LCT	ESOL-012-01 333339 MW					
	TBA			\$0.00	\$0.00	\$60.00
	Required: Student Petition.					\$60.00
HAR LCT	ESOL-012-06 333342 MW					
	TBA			\$0.00	\$0.00	\$60.00
	Required: Student Petition.					\$60.00
OC LCT	ESOL-012-07 333345 MW					
	TBA			\$0.00	\$0.00	\$60.00
	Required: Student Petition.					\$60.00

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
OC LCT	ESOL-012-08 337542 MW							6-8:50 PM		
	TBA					\$0.00	\$0.00	\$60.00		\$60.00
	Required: Student Petition.									

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

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

OC LCT	ESOL-015-01 333347 T							9-11:50 AM		
								TH		
								9-10:20 AM		
								10:30 -11:50 AM		
	TBA					\$0.00	\$0.00	\$65.00		\$65.00
	Required: Student Petition.									
HAR LCT	ESOL-015-06 333351 T							6-8:50 PM		
								TH		
								6-7:20 PM		
								7:30 -8:50 PM		
	TBA					\$0.00	\$0.00	\$65.00		\$65.00
	Required: Student Petition.									
OC LCT	ESOL-015-07 333355 T							6-8:50 PM		
								TH		
								6-7:20 PM		
								7:30 -8:50 PM		
	TBA					\$0.00	\$0.00	\$65.00		\$65.00
	Required: Student Petition.									

ESOL-020 UPPER BEGINNING GRAMMAR, 0 CREDIT

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

OC LCT	ESOL-020-01 333358 TTH							12:30 -1:50 PM		
	TBA					\$0.00	\$0.00	\$35.00		\$35.00
	Required: Student Petition.									
HAR LCT	ESOL-020-06 333363 MW							7:30 -8:50 PM		
	TBA					\$0.00	\$0.00	\$35.00		\$35.00
	Required: Student Petition.									
HAR LCT	ESOL-020-07 337545 MW							7:30 -8:50 PM		
	TBA					\$0.00	\$0.00	\$35.00		\$35.00
	Required: Student Petition.									

ESOL-022 UPPER BEGINNING CONVERSATION, 0 CREDIT

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

HAR LCT	ESOL-022-06 337543 MW							6-7:20 PM		
	TBA					\$0.00	\$0.00	\$30.00		\$30.00
	Required: Student Petition.									

ESOL-024 UPPER BEGINNING READING & WRITING, 0 CREDIT

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

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
OC LCT	ESOL-024-01 333364 T							9-11:50 AM		
								TH		
								9-10:20 AM		
								10:30 -11:50 AM		
	TBA					\$0.00	\$0.00	\$60.00		\$60.00
	Required: Student Petition.									
HAR LCT	ESOL-024-06 333367 T							6-7:20 PM		
								TH		
								6-7:20 PM		
								7:30 -8:50 PM		
	TBA					\$0.00	\$0.00	\$60.00		\$60.00
	Required: Student Petition.									
HAR LCT	ESOL-024-07 337547 TTH							6-8:50 PM		
	TBA					\$0.00	\$0.00	\$60.00		\$60.00
	Required: Student Petition.									

ESOL-030 INTERMEDIATE GRAMMAR A, 0 CREDIT

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

OC LCT	ESOL-030-01 333370 TTH							12:30 -1:50 PM		
	S. MUNRO					\$0.00	\$0.00	\$30.00		\$30.00
	Required: Student Petition.									
HAR LCT	ESOL-030-06 333373 MW							7:30 -8:50 PM		
	TBA					\$0.00	\$0.00	\$30.00		\$30.00
	Required: Student Petition.									
HAR LCT	ESOL-030-07 333375 MW							7:30 -8:50 PM		
	TBA					\$0.00	\$0.00	\$30.00		\$30.00
	Required: Student Petition.									

ESOL-032 INTERMEDIATE CONVERSATION 1, 0 CREDIT

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

OC LCT	ESOL-032-01 333377 MW							10:30 -11:50 AM		
	TBA					\$0.00	\$0.00	\$30.00		\$30.00
	Required: Student Petition.									
HAR LCT	ESOL-032-06 333381 MW							6-7:20 PM		
	TBA					\$0.00	\$0.00	\$30.00		\$30.00
	Required: Student Petition.									

ESOL-034 INTERMEDIATE READING & WRITING, 0 CREDIT

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

OC LCT	ESOL-034-01 333385 TTH							9-11:50 AM		
	TBA					\$0.00	\$0.00	\$60.00		\$60.00
	Required: Student Petition.									
HAR LCT	ESOL-034-06 333387 TTH							6-8:50 PM		
	TBA					\$0.00	\$0.00	\$60.00		\$60.00
	Required: Student Petition.									

ESOL-042 UPPER INTERMEDIATE CONVERSATION 1, 0 CREDIT

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

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

Course No	Course Title, Credits						Course No	Course Title, Credits								
	Section No Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time Crs. Fee		Total	Section No Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total	
OC LCT	ESOL-042-01	333390 MW					10:30 -11:50 AM	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.								
	S. MUNRO			\$0.00	\$0.00	\$30.00	\$30.00									
	Required: Student Petition.															
HAR LCT	ESOL-042-06	333393 MW					6-7:20 PM									
	TBA			\$0.00	\$0.00	\$30.00	\$30.00									
	Required: Student Petition.															
HAR LCT	ESOL-042-07	337544 MW					6-7:20 PM	OC LCT	ESOL-055-01	337548 TTH				12:30 -1:50 PM		
	TBA			\$0.00	\$0.00	\$30.00	\$30.00		K. LONG		\$0.00	\$0.00	\$30.00	\$30.00		
	Required: Student Petition.															

ESOL-044 UPPER INTERMEDIATE READING & WRITING, 0 CREDIT

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

OC LCT	ESOL-044-01	333396 TTH				9-11:50 AM	
	L. JOYCE	\$0.00	\$0.00	\$70.00	\$70.00		
	Required: Student Petition.						

ESOL-046 EDITING FOR BETTER WRITING, 0 CREDIT

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

OC LCT	ESOL-046-01	333397 TTH			9-11:50 AM	
	K. LONG	\$0.00	\$0.00	\$60.00	\$60.00	
	Required: Student Petition.					
HAR LCT	ESOL-046-06	333399 TTH			6-8:50 PM	
	TBA	\$0.00	\$0.00	\$60.00	\$60.00	
	Required: Student Petition.					

ESOL-052 ADVANCED COMMUNICATION SKILLS 1, 0 CREDIT

English language learners practice speaking and listening strategies for effective communication in discussions, presentations, lectures, note-taking, and group projects. The course builds vocabulary, critical thinking skills, and an awareness of non-verbal communication. The focus of this course is to prepare students for college success. Aligns with the Oregon Adult English Language Proficiency Standards, Level 4 & 5. Required: Student Petition.

OC LCT	ESOL-052-01	333404 MW			10:30 -11:50 AM	
	TBA	\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.					
HAR LCT	ESOL-052-06	333407 MW			6-7:20 PM	
	TBA	\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.					

ESOL-054 ADVANCED READING & WRITING, 0 CREDIT

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

OC LCT	ESOL-054-01	333408	TTH			9-11:50 AM	
	S. MUNRO			\$0.00	\$0.00	\$70.00	\$70.00
	Required: Student Petition.						
HAR LCT	ESOL-054-06	333411	TTH			6-8:50 PM	
	TBA			\$0.00	\$0.00	\$70.00	\$70.00
	Required: Student Petition.						

ESOL-055 ADVANCED GRAMMAR C, 0 CREDIT**Campus Locations:**

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

Distance Education Notification:

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

Other Coding Translations:

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

ESPAÑOL: Enseñado en español

LCT: Low-Cost Text

ESOL-060 VOCABULARY BUILDING 1, 0 CREDIT

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

OC LCT	ESOL-060-01	333412 MW			9-10:20 AM	
	S. MUNRO	\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.					

ESOL-062 ESOL READING, 0 CREDIT

English language learners at all levels improve their reading fluency and expand and solidify their English vocabulary as needed for higher-level academics and everyday life. (Aligns with the Oregon Adult English Language Proficiency Standards, Levels 2-4; and Oregon Adult College and Career Readiness Reading Fundamentals) Required: Student Petition.

OC LCT	ESOL-062-01	333414 MW				12:30 -1:50 PM
	K. LONG	\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.					

ESOL-082 ASSESS/EVALUATE NEW STUDENTS, 0 CREDIT

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

OC LCT	ESOL-082-01	333419	TBA				
	L. JOYCE		\$0.00	\$0.00	\$0.00	\$0.00	
	Required: Student Petition.						
HAR LCT	ESOL-082-06	333422	TBA				
	L. JOYCE		\$0.00	\$0.00	\$0.00	\$0.00	
	Required: Student Petition.						

ESOL-083 EDUCATIONAL PLANNING FOR RETURNING STUDENTS, 0 CREDIT

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

OC LCT	ESOL-083-01	333423	TBA												
	L. JOYCE			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00							
	Required: Student Petition.														

Course No							Course Title, Credits								
	Section No Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total
HAR LCT	ESOL-083-06	333425	TBA					OC	PIE-042-01	333435	MW			10:30 -11:50 AM	
	L. JOYCE			\$0.00	\$0.00	\$0.00	\$0.00		S. MUNRO			\$378.00	\$39.00	\$240.00	\$657.00
	Required: Student Petition.							Required: Student Petition.							
PIE-020							UPPER BEGINNING GRAMMAR, 0 CREDIT								
English language learners study and practice basic verb forms (simple present and present progressive), and adverbs of frequency in written and spoken English. Aligns with the Oregon Adult English Language Proficiency Standards, Level 1. Required: Student Petition.															
oc	PIE-020-01	333426	TTH			12:30 -1:50 PM		oc	PIE-044-01	333437	TTH			9-11:50 AM	
	TBA			\$378.00	\$39.00	\$240.00	\$657.00		L. JOYCE			\$756.00	\$78.00	\$480.00	\$1,314.00
	Required: Student Petition.							Required: Student Petition.							
PIE-024							UPPER BEGINNING READING & WRITING, 0 CREDIT								
English language learners read short texts to improve reading skills, write simple, compound, and complex sentences, and write related sentences in paragraph form for the contexts of school, work, family and community. Aligns with the Oregon Adult English Language Proficiency Standards, Level 2. Required: Student Petition.															
oc	PIE-024-01	333428	T			9-11:50 AM		oc	PIE-046-01	333439	TTH			9-11:50 AM	
			TH			9-10:20 AM			K. LONG			\$756.00	\$78.00	\$480.00	\$1,314.00
			TH			10:30 -11:50 AM			Required: Student Petition.						
	TBA			\$756.00	\$78.00	\$480.00	\$1,314.00								
	Required: Student Petition.														
PIE-030							INTERMEDIATE GRAMMAR A, 0 CREDIT								
One of a two-part series. English language learners study and practice simple present, present progressive, and future verb forms and modals of ability, and advice. Aligns with the Oregon Adult English Language Proficiency Standards, Level 2. Required: Student Petition.															
oc	PIE-030-01	333430	TTH			12:30 -1:50 PM		oc	PIE-052-01	333443	MW			10:30 -11:50 AM	
	S. MUNRO			\$378.00	\$39.00	\$240.00	\$657.00		TBA			\$378.00	\$39.00	\$240.00	\$657.00
	Required: Student Petition.							Required: Student Petition.							
PIE-032							INTERMEDIATE CONVERSATION 1, 0 CREDIT								
English language learners study and practice speaking and listening skills and strategies in structured tasks to improve fluency in the contexts of school, work, family and community. One of a 2-part series. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 2 and 3. Required: Student Petition.															
oc	PIE-032-01	333432	MW			10:30 -11:50 AM		oc	PIE-054-01	333444	TTH			9-11:50 AM	
	TBA			\$378.00	\$39.00	\$240.00	\$657.00		S. MUNRO			\$756.00	\$78.00	\$480.00	\$1,314.00
	Required: Student Petition.							Required: Student Petition.							
PIE-034							INTERMEDIATE READING & WRITING, 0 CREDIT								
English language learners read a variety of texts to improve reading skills, and write paragraphs focused on a single topic developed with logically organized facts and details for the contexts of school, work, family and community. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 2 and 3. Required: Student Petition.															
oc	PIE-034-01	333434	TTH			9-11:50 AM		oc	PIE-055-01	337549	TTH			12:30 -1:50 PM	
	TBA			\$756.00	\$78.00	\$480.00	\$1,314.00		K. LONG			\$378.00	\$39.00	\$240.00	\$657.00
	Required: Student Petition.							Required: Student Petition.							
PIE-042							UPPER INTERMEDIATE CONVERSATION 1, 0 CREDIT								
English language learners study and practice speaking and listening skills and strategies for independent communication to improve fluency in the contexts of school, work, family and community. One of a 2-part series. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 3 and 4. Required: Student Petition.															

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

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	PIE-060-01	333446 MW			9-10:20 AM	
	S. MUNRO	\$378.00	\$39.00	\$240.00	\$657.00	
	Required: Student Petition.					
PIE-062	ESOL READING, 0 CREDIT					
English language learners at all levels improve their reading fluency and expand and solidify their English vocabulary as needed for higher-level academics and everyday life. (Aligns with the Oregon Adult English Language Proficiency Standards, Levels 2-4; and Oregon Adult College and Career Readiness Reading Fundamentals) Required: Student Petition.						
OC LCT	PIE-062-01	333448 MW			12:30 -1:50 PM	
	K. LONG	\$378.00	\$39.00	\$240.00	\$657.00	
	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						
OC LCT	ENG-104Z-01	333960 MW			1-2:50 PM	
	A. COFFEY	\$504.00	\$52.00	\$0.00	\$556.00	
ENG-107	WORLD LITERATURE: ANCIENT THROUGH CLASSICAL TIMES, 4 CREDITS					
Literature of the ancient through classical worlds: epic, lyric, and dramatic literature. Through class discussion, research, and written work, students practice close reading and literary interpretation, explore the readings' contemporary relevance, relate the readings to their own lives and the world, and engage in academic conversations about the literature.						
Recommended Prerequisites: WRD-098 or placement in WR-121Z						
OC HYB	ENG-107-01	337730 T			10-11:50 AM	
	A. WARREN	\$504.00	\$52.00	\$0.00	\$556.00	
ENG-116	INTRODUCTION TO LITERATURE: COMICS, 4 CREDITS					
Examines the intrinsic literary and artistic qualities of comics, as well as their connections to classic literature, and the literature and other art they have inspired.						
Recommended Prerequisites: WRD-098 or placement in WR-121Z						
ONL	ENG-116-01	333962				
	T. DODGE	\$504.00	\$52.00	\$0.00	\$556.00	
ENG-121	MYSTERY FICTION, 4 CREDITS					
An introduction to detective/mystery fiction. Students will read, discuss, and analyze short stories by writers such as Edgar Allan Poe, Agatha Christie, and Walter Mosley.						
Recommended Prerequisites: WRD-098 or placement in WR-121Z						
ONL	ENG-121-01	333964				
	TBA	\$504.00	\$52.00	\$0.00	\$556.00	
ENG-194	INTRODUCTION TO FILM, 4 CREDITS					
Viewing, discussion, and analysis of films from a variety of eras and cultures. Students will learn to analyze a film beyond its surface meaning, drawing on film aesthetics, technology, history, and theory. The interpretive and critical thinking skills they develop can be applied to a variety of modern media.						
Recommended Prerequisites: WRD-098 or placement in WR-121Z						
OC	ENG-194-01	337731 TTH			1-2:50 PM	
	R. DAVIS	\$504.00	\$52.00	\$0.00	\$556.00	
ENG-204	BRITISH LITERATURE: ANCIENT TO ENLIGHTENMENT, 4 CREDITS					
Representative study of British literature, including major works, writers, and literary forms, from its beginnings through the eighteenth century. Readings from the Anglo-Saxon, Middle English, Renaissance, Restoration, and Enlightenment periods.						
Recommended Prerequisites: WRD-098 or placement in WR-121Z						
ONL LCT	ENG-204-01	333968				
	J. MCALPINE	\$504.00	\$52.00	\$0.00	\$556.00	
ENG-251	CELTIC MYTHOLOGY, 4 CREDITS					
Explores the historical, cultural, social, and literary significance of Celtic myths; views Celtic mythology in its historical and geographic positions and in the larger context of Western civilization and literary tradition; considers how studying myth affects and influences reading other works; introduces theoretical approaches to mythology and basic literary elements and terminology.						
Recommended Prerequisites: WRD-098 or placement in WR-121Z						
OC	ENG-251-01	337732 MW			10-11:50 AM	
	J. BRYANT-TRERISE	\$504.00	\$52.00	\$0.00	\$556.00	
ENG-280	ENGLISH/CWE, 2-6 CREDITS					
Cooperative work experience. Provides students with on-the-job experience in the field of English studies. Required: Student Petition.						
Corequisites: CWE-281						
ONL LCT	ENG-280-01	333975				
	A. COFFEY	\$756.00	\$78.00	\$45.00	\$879.00V	
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					
ENG-297	A.S. DEGREE PORTFOLIO, 1 CREDIT					
This course provides the opportunity for A.S. Degree students to revise, edit, reflect upon, and compile their best work from their various focus areas to meet the outcomes for the program and prepare for transfer to a university.						
Required: Students must be in the second year of their course of study, and have the majority of their focus area and transfer requirements complete						
ONL LCT	ENG-297-01	333980				
	A. COFFEY	\$126.00	\$13.00	\$0.00	\$139.00	
	Required: Student Petition.					
Environmental Science						
ESR-171	INTRODUCTION TO ENVIRONMENTAL SCIENCE, 4 CREDITS					
Introduction to environmental science topics. Will focus on human impacts on land, air, water and ecology, climate change, sustainability, environmental impacts on human health and environmental justice. The laboratory assignments will focus on applied introductory environmental science topics.						

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

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Crs. Fee	Total
Corequisites: ESR-171L									
Recommended Prerequisites: MTH-060 or MTH-098 with a C or better, or placement in MTH-065									
Recommended Prerequisites: WRD-098 or placement in WR-121Z									
OC LCT	ESR-171-01	333881	TTH		1-2:20 PM				
	E. CAVALIERE			\$504.00	\$52.00	\$55.00	\$611.00		
	Corequisite: Take 1 of the following ESR-171L-01, ESR-171L-02, ESR-171L-03.								
ONL LCT	ESR-171-02	333883							
	E. CAVALIERE			\$504.00	\$52.00	\$55.00	\$611.00		
	This section has an in-person lab requirement. Corequisite: Take 1 of the following ESR-171L-01, ESR-171L-02, ESR-171L-03.								
ONL	ESR-171-15	333884							
	E. CAVALIERE			\$504.00	\$52.00	\$55.00	\$611.00		
	This section has an in-person lab requirement. Corequisite: Take the following ESR-171L-15.								
ESR-171L	INTRODUCTION TO ENVIRONMENTAL SCIENCE LAB, 0 CREDIT								

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Crs. Fee	Total
Explores the principles of child development, prenatal through three years of age. Emphasis will be placed on the physical, cognitive, and social-emotional development of young children. The impact of family dynamics, culture and socio-economic status on children's development will be explored.									
ONL	HDF-225-01	334118							
	D. HENDRICKS			\$378.00	\$39.00	\$0.00	\$417.00		
HDF-225ES	DESARROLLO DE LAS ETAPAS PRENATAL, INFANTES Y DE NIÑOS PEQUEÑOS, 4 CREDITS								
Se enfoca en la exploración del desarrollo y factores que influyen áreas relacionadas con lo físico, cognitivo y socio-emocional en los niños desde la etapa prenatal hasta los tres años de edad. Se examinarán teorías relacionadas con estas etapas, así como la influencia del lenguaje y la cultura en el desarrollo y crianza.									
REM LCT ESPAÑOL	HDF-225ES-01	334122	TH		6-7:50 PM				
	D. TORRADO			\$504.00	\$52.00	\$0.00	\$556.00		
	La clase se reúne cinco Jueves por Zoom (10/3, 10/17, 10/31 11/14. v 12/5 de 6:00 PM to 7:50PM).								

Lab course for ESR-171

Corequisites: ESR-171

OC	ESR-171L-01 333886 T				9-11:50 AM				
	E. CAVALIERE			\$0.00	\$0.00	\$0.00	\$0.00		
	Corequisite: Take 1 of the following ESR-171-01, ESR-171-02.								
OC	ESR-171L-02 333887 W				1-3:50 PM				
	E. CAVALIERE			\$0.00	\$0.00	\$0.00	\$0.00		
	Corequisite: Take 1 of the following ESR-171-01, ESR-171-02.								
OC	ESR-171L-03 333889 TH				2:30 -5:20 PM				
	E. CAVALIERE			\$0.00	\$0.00	\$0.00	\$0.00		
	Corequisite: Take 1 of the following ESR-171-01, ESR-171-02.								
HAR	ESR-171L-15 333891 TH				6-8:50 PM				
	S. BALLEW			\$0.00	\$0.00	\$0.00	\$0.00		
	Corequisite: Take the following ESR-171-15.								

Ethnic Studies

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

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

Recommended Prerequisites: WR-121Z

OC HYB	ES-211-01 333982 MW				2-3:50 PM				
	L. MARTINEZ			\$504.00	\$52.00	\$0.00	\$556.00		

Family Studies

HDF-225 PRENATAL, INFANT & TODDLER DEVELOPMENT, 3 CREDITS

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

ONL	HDF-225-01 334118								
	D. HENDRICKS			\$378.00	\$39.00	\$0.00	\$417.00		

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

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

REM LCT ESPAÑOL	HDF-225ES-01 334122 TH				6-7:50 PM				
	D. TORRADO			\$504.00	\$52.00	\$0.00	\$556.00		
	La clase se reúne cinco Jueves por Zoom (10/3, 10/17, 10/31 11/14, y 12/5 de 6:00 PM to 7:50PM).								

HDF-260 UNDERSTANDING CHILD ABUSE AND NEGLECT, 3 CREDITS

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

ONL	HDF-260-01 334129								
	C. BAKER			\$378.00	\$39.00	\$0.00	\$417.00		

Fire Science (Wildland)

FRP-101 BASIC FOREST MANAGEMENT, 3 CREDITS

An introduction to forestry and forest land management activities and practices related to forest stewardship. Students will gain an understanding of how social, economic and environmental values influence current forest policies and regulations.

Corequisites: FRP-102

OC	FRP-101-01 333548 M				9-11:50 AM				
	TBA			\$378.00	\$39.00	\$0.00	\$417.00		

FRP-102 BASIC FOREST MANAGEMENT LAB, 1 CREDIT

Provides lab exercises in a forest setting experience using forest management field equipment discussed in FRP-101. The Lab includes the use of diameter tape, loggers tape, compass, clinometer, increment borer and wedge prism to measure tree height, diameter, tree age, diameter increment and basal area. Through the use of fixed plot and variable plot forest sampling methods the students will gain the skills to gather data necessary to calculate stocking, volume and growth.

Corequisites: FRP-101

OC LCT	FRP-102-01 333550 W				9-11:50 AM				
	TBA			\$126.00	\$13.00	\$110.00	\$249.00		

FRP-130 INTRODUCTION TO WILDLAND FIREFIGHTING (S-130/S-190/CS-100/IS-700/L-180), 2 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

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

This course provides an introduction to wildland fire behavior, wildland firefighting safety and wildland firefighting techniques. The course covers the basic skills necessary to fight wildland fires under close supervision. NWCG Courses completed in class include S-130, S-190, L-180, IS-100 and IS-700. Also includes the Work Capacity Test (WCT) which is needed for employment.

OC LCT	FRP-130-01	333553 S			9-4:50 PM	
	TBA		\$252.00	\$26.00	\$50.00	\$328.00
	Meets: 9/25-10/28.					

FRP-200 BASIC INCIDENT COMMAND SYSTEM (I-100, I-200, IS-700, IS-800), 4 CREDITS

Introduces the knowledge and skills to function efficiently during an incident or event within the Incident Command System (ICS). National Incident Management System (NIMS) and the National Response Framework (NRF) provide a consistent nationwide template to enable all government, private-sector, and nongovernmental organizations to work together during domestic incidents.

OC	FRP-200-01	333554 MW			6-7:50 PM	
	TBA		\$504.00	\$52.00	\$0.00	\$556.00

FRP-243 WILDERNESS I: PSYCHOLOGY OF SURVIVAL, 3 CREDITS

Students will learn how to be mentally and physically prepared to survive in the wilderness, the psychology of surviving, and what to do when things go wrong. The course explores the science of survival. Other topics include disaster preparedness, ropes and knots, heat related injuries and increasing situation awareness.

OC	FRP-243-01	333556 T			9-11:50 AM	
	TBA		\$378.00	\$39.00	\$25.00	\$442.00
	There is a field day, date TBD, that is mandatory to complete the class.					

FRP-275 WILDLAND FIRE MANAGEMENT 1, 4 CREDITS

This course is designed to meet the needs of current and future unit level Fire Program Managers. Students will learn how to identify the basic principle, policies, and procedures to effectively and safely lead, plan, and implement a fire management program. The responsibilities of the Fire Program manager include program management and personal accountability are also covered in this course.

Prerequisites: FRP-130 (S-130/S-190/L-180), FRP-131 (S-131/S-133), FRP-249 (L-280), and WR-101 or WR-121Z

OC	FRP-275-01	333559 TTH			6-7:50 PM	
	TBA		\$504.00	\$52.00	\$25.00	\$581.00
	Students have the option to attend either in-person or virtually.					

First Year Experience (FYE)

FYE-101 FIRST YEAR EXPERIENCE LEVEL I, 2 CREDITS

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

OC LCT	FYE-101-01	333991 MW			9-9:50 AM	
	TBA		\$0.00	\$0.00	\$93.00	\$93.00
OC LCT	FYE-101-02	333995 MW			10-10:50 AM	
	TBA		\$0.00	\$0.00	\$93.00	\$93.00

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

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

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

OC LCT	FYE-101-03	333998 MW			11-11:50 AM	
	TBA		\$0.00	\$0.00	\$93.00	\$93.00
OC LCT	FYE-101-04	334000 M			1-2:50 PM	
	J. CORTES		\$0.00	\$0.00	\$93.00	\$93.00
OC LCT	FYE-101-05	334002 TTH			9-9:50 AM	
	TBA		\$0.00	\$0.00	\$93.00	\$93.00
OC LCT	FYE-101-06	334005 TTH			11-11:50 AM	
	TBA		\$0.00	\$0.00	\$93.00	\$93.00
OC LCT	FYE-101-07	334007 T			1-2:50 PM	
	TBA		\$0.00	\$0.00	\$93.00	\$93.00
OC LCT	FYE-101-08	334010 TTH			3-3:50 PM	
	TBA		\$0.00	\$0.00	\$93.00	\$93.00
OC LCT	FYE-101-09	334012 W			1-2:50 PM	
	TBA		\$0.00	\$0.00	\$93.00	\$93.00
OC	FYE-101-10	334015 TH			1-2:50 PM	
	TBA		\$0.00	\$0.00	\$93.00	\$93.00
ONL LCT	FYE-101-11	334017				
	TBA		\$0.00	\$0.00	\$93.00	\$93.00
ONL LCT	FYE-101-12	334019				
	TBA		\$0.00	\$0.00	\$93.00	\$93.00
ONL LCT	FYE-101-13	334021				
	TBA		\$0.00	\$0.00	\$93.00	\$93.00

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

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

REM LCT ESPAÑOL	FYE-101ES-01	334048 MW			5-5:50 PM	
	L. MARTINEZ		\$0.00	\$0.00	\$93.00	\$93.00
REM LCT ESPAÑOL	FYE-101ES-02	334052 T			4-5:50 PM	
	K. CUEVAS		\$0.00	\$0.00	\$93.00	\$93.00

Food & Nutrition

FN-110 PERSONAL NUTRITION, 3 CREDITS

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

ONL	FN-110-01	333190				
	T. SCOLLARD		\$378.00	\$39.00	\$82.20	\$499.20
	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

Course Listing

2024/FA

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
ONL	FN-225-01 333191 T. SCOLLARD Online textbook included in section fees.					\$504.00	\$52.00	\$121.88		\$677.88
ONL	FN-225-02 333192 J. PAVLINAC Online textbook included in section fees.					\$504.00	\$52.00	\$121.88		\$677.88
ONL	FN-225-03 333193 J. PAVLINAC Online textbook included in section fees.					\$504.00	\$52.00	\$121.88		\$677.88

General Development Education (GED)

GED Classes offered Days and Evenings

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

GED-011 GED IN ESPAÑOL, 0 CREDIT

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

REM ESPAÑOL	GED-011-01	334061	MW	5:30 -7:50 PM		
	A. ARISTIZABAL	\$0.00	\$0.00	\$50.00	\$50.00	
	Required: Student Petition. For registration information contact Adriana Aristizabal at 503-594-3916 or register at first class.					
HAR ESPAÑOL	GED-011-02	334063	TTH	6-8:50 PM		
	C. SANCHEZ	\$0.00	\$0.00	\$50.00	\$50.00	
	Required: Student Petition. For registration information contact Camilo Sanchez at 503-594-3029 or register at the first class.					

GED-015 GED PREPARATION, 0 CREDIT

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

OC LCT	GED-015-17 334067 MW			5:30 -7:50 PM	
	A. BRANDENBURG	\$0.00	\$0.00	\$50.00	\$50.00
	A. WICKERT				
	Required: Student Petition.				
HAR HYB LCT	GED-015-67 334070 MW			10-11:50 AM	
	M. NICKAS	\$0.00	\$0.00	\$55.00	\$55.00
	Required: Student Petition.				
ONL LCT	GED-015-68 334072				
	S. HATSWELL	\$0.00	\$0.00	\$55.00	\$55.00
	Required: Student Petition.				
ONL LCT	GED-015-69 334073				
	M. NICKAS	\$0.00	\$0.00	\$55.00	\$55.00
	L. NIELSON				
	Required: Student Petition.				

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

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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

OC LCT	GED-015-80	334074	MTWTH	10-11:50 AM		
	J. NIELSON		\$0.00	\$0.00	\$55.00	\$55.00
	Required: Student Petition.					

GED-049 LATINO GED & LIFE SKILLS, 0 CREDIT

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

HAR ESPAÑOL	GED-049-03	334080 MW	9-11:50 AM			
	C. SANCHEZ	\$0.00	\$0.00	\$50.00	\$50.00	
	Required: Student Petition. For registration information contact Camilo Sanchez at 503-594-3029 or register at first class.					
HAR ESPAÑOL	GED-049-04	334082 S	9-11:50 AM			
	M. ROSAS DELGADO	\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.					

General Science

GS-104 EARTH SYSTEM SCIENCE, 4 CREDITS

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

Corequisites: GS-104L

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

OC LCT	GS-104-01	333917 TTH	1-2:20 PM			
	TBA	\$504.00	\$52.00	\$50.00	\$606.00	
	Corequisite: Take the following GS-104L-01.					

GS-104L EARTH SYSTEM SCIENCE LAB, 0 CREDIT

Lab course for GS-104

Corequisites: GS-104

OC LCT	GS-104L-01	333919 TH	9-11:50 AM		
	TBA	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take the following GS-104-01.				

GS-107 ASTRONOMY, 4 CREDITS

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

Corequisites: GS-107L

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

Prerequisites: WRD-090 or placement in WRD-098

ONL LCT	GS-107-40	333920				
	TBA		\$504.00	\$52.00	\$25.00	\$581.00
	Corequisite: Take the following GS-107L-40.					
ONL LCT	GS-107-41	333923				
	TBA		\$504.00	\$52.00	\$25.00	\$581.00
	Corequisite: Take the following GS-107L-41.					

GS-107L ASTRONOMY LAB, 0 CREDIT

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Crs. Fee	Total
Lab course for GS-107									
Corequisites: GS-107									
ONL LCT	GS-107L-40 333924	TBA				\$0.00	\$0.00	\$0.00	\$0.00
Corequisite: Take the following GS-107-40.									
ONL LCT	GS-107L-41 333925	TBA				\$0.00	\$0.00	\$0.00	\$0.00
Corequisite: Take the following GS-107-41.									

Geographic Information Systems

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

GIS-101 PRINCIPLES OF GEOSPATIAL TECHNOLOGY, 2 CREDITS

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

ONL LCT	GIS-101-01 333562	TBA				\$252.00	\$26.00	\$30.00	\$308.00
---------	--------------------------	-----	--	--	--	----------	---------	---------	----------

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.

ONL LCT	GIS-201-01 333563	TBA				\$378.00	\$39.00	\$40.00	\$457.00
---------	--------------------------	-----	--	--	--	----------	---------	---------	----------

Geography

GEO-100 INTRODUCTION TO PHYSICAL GEOGRAPHY, 4 CREDITS

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

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

ONL	GEO-100-01 337615	C. FELDMAN				\$504.00	\$52.00	\$0.00	\$556.00
-----	--------------------------	------------	--	--	--	----------	---------	--------	----------

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	GEO-110-01 334084	C. FELDMAN				\$504.00	\$52.00	\$0.00	\$556.00
-----	--------------------------	------------	--	--	--	----------	---------	--------	----------

GEO-130 INTRODUCTION TO ENVIRONMENTAL GEOGRAPHY, 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

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

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

OC	GEO-130-01 334087	TTH				\$504.00	\$52.00	\$0.00	\$556.00
A. ARMEN									

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

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

Corequisites: CWE-281

OC	GEO-280-01 334092	D. LOUGEE				\$756.00	\$78.00	\$45.00	\$879.00V
Required: Student Petition. Corequisite: Take the following CWE-281-06.									

Geology

G-101 GENERAL GEOLOGY, 4 CREDITS

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

Corequisites: G-101L

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

OC LCT	G-101-01 333892	MW				\$504.00	\$52.00	\$50.00	\$606.00
B. WALKER									
Corequisite: Take 1 of the following G-101L-01, G-101L-02.									
REM LCT	G-101-02 333893	TTH				\$504.00	\$52.00	\$50.00	\$606.00
TBA									
This class has an in-person lab requirement. Corequisite: Take 1 of the following G-101L-02, G-101L-01.									
REM LCT	G-101-15 333898	T				\$504.00	\$52.00	\$50.00	\$606.00
J. WOODCOCK									
This section has an in-person lab requirement. Corequisite: Take the following G-101L-15.									

G-101L GENERAL GEOLOGY LAB, 0 CREDIT

Lab course for G-101

Corequisites: G-101

OC LCT	G-101L-01 333899	T				\$0.00	\$0.00	\$0.00	\$0.00
TBA									
Corequisite: Take 1 of the following G-101-01, G-101-02.									
OC LCT	G-101L-02 333900	W				\$0.00	\$0.00	\$0.00	\$0.00
TBA									
Corequisite: Take 1 of the following G-101-01, G-101-02.									
HAR LCT	G-101L-15 333902	TH				\$0.00	\$0.00	\$0.00	\$0.00
J. WOODCOCK									
Corequisite: Take the following G-101-15.									

G-201 GENERAL GEOLOGY, 4 CREDITS

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

Course Listing

2024/FA

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time	Tuition	Fee	Crs. Fee	Total
Corequisites: G-201L									
Prerequisites: WRD-090 or placement in WRD-098									
OC LCT	G-201-01	333904 MW			10-11:20 AM				
	B. WALKER	\$504.00	\$52.00	\$50.00	\$606.00				
	Corequisite: Take 1 of the following G-201L-01, G-201L-02.								
REM LCT	G-201-02	333907 TTH			3-4:20 PM				
	TBA	\$504.00	\$52.00	\$50.00	\$606.00				
	This section has an in-person lab requirement. Corequisite: Take 1 of the following G-201L-01, G-201L-02.								
REM LCT	G-201-15	333911 T			6-8:50 PM				
	J. WOODCOCK	\$504.00	\$52.00	\$50.00	\$606.00				
	This section has an in-person lab requirement. Corequisite: Take the following G-201L-15.								
G-201L	GENERAL GEOLOGY LAB, 0 CREDIT								
Lab course for G-201									
Corequisites: G-201									
OC LCT	G-201L-01	333913 T			9-11:50 AM				
	TBA	\$0.00	\$0.00	\$0.00	\$0.00				
	Corequisite: Take 1 of the following G-201-01, G-201-02.								
OC LCT	G-201L-02	333914 W			1-3:50 PM				
	TBA	\$0.00	\$0.00	\$0.00	\$0.00				
	Corequisite: Take 1 of the following G-201-01, G-201-02.								
HAR LCT	G-201L-15	333916 TH			6-8:50 PM				
	J. WOODCOCK	\$0.00	\$0.00	\$0.00	\$0.00				
	Corequisite: Take the following G-201-15.								

Gerontology

GRN-181	ISSUES IN AGING, 3 CREDITS								
Provides an introduction to gerontology including the history of aging and current issues. Covers: myths, stereotypes, economic and political aspects, demographics and service availability for aging populations.									
ONL LCT	GRN-181-01	333170							
	Y. SMITH	\$378.00	\$39.00	\$0.00	\$417.00				
GRN-280	GERONTOLOGY/CWE, 2-6 CREDITS								
Cooperative work experience. Acquaint gerontology students with the roles and related activities of organizations serving the elderly. This course provides an opportunity to apply theories and techniques learned in the classroom. May be repeated for up to 6 credits. Required: Student Petition.									
Prerequisite or Corequisite: HS-170									
Corequisites: HS-270									
HAR HYB LCT	GRN-280-01	333171							
	J. LOVELESS	\$756.00	\$78.00	\$45.00	\$879.00V				
	Required: Student Petition. Corequisite: Take the following CWE-281-06.								

Health

HE-163	BODY & DRUGS I: INTRODUCTION TO ABUSE & ADDICTION, 3 CREDITS								
The first of a four-course sequence, this course examines the history of the use of addictive drugs, the definition of addiction, psychosocial and neurobiological causes of drug and behavioral addiction, addictive drug classifications, and the history of/introduction to addiction treatment, and access and utilize effective resources to improve and maintain mental and physical wellbeing.									
ONL	HE-163-01	333931							
	T. PANTAGES	\$378.00	\$39.00	\$0.00	\$417.00				
ONL	HE-163-02	333932							
	T. PANTAGES	\$378.00	\$39.00	\$0.00	\$417.00				
HE-164	BODY & DRUGS II: ALCOHOL, 3 CREDITS								
The second of a four-course offering. Covers beverage alcohol as a drug, the history of alcohol use/abuse, physiological and psychological effects of alcohol use on the user, and the impact of that use on those around the user and on society at large, access and utilize effective resources to improve and maintain mental and physical wellbeing.									
Prerequisites: HE-163									
ONL	HE-164-01	333934							
	T. PANTAGES	\$378.00	\$39.00	\$0.00	\$417.00				
HE-201	PERSONAL TRAINING, 3 CREDITS								
Students will follow the curriculum for the National Council on Strength and Fitness (NCSF) Certified Personal Trainer certification. The course will guide students through the expectations, requirements, processes and knowledge to prepare to become a certified Personal Trainer through the NCSF. Through videos, lecture and self-study, students will be prepared to take the NCSF Certified Personal Training exam, which is offered through the NCSF and is not included in the course.									
Recommended Prerequisites: PE-240									
ONL	HE-201-01	333935							
	T. NELSON	\$378.00	\$39.00	\$0.00	\$417.00				
HE-204	NUTRITION & WEIGHT CONTROL, 3 CREDITS								
Methods of maintaining or improving nutrition by considering diets and dieting, obesity, types of exercise, physical testing, cardio-vascular fitness and nutritional concepts.									
ONL	HE-204-01	333936							
	J. BUEL	\$378.00	\$39.00	\$0.00	\$417.00				
	Meets: 11/16-12/11.								
HE-207	INTRODUCTION TO PLANT BASED LIVING, 3 CREDITS								
The course is designed to give students a basic understanding of a plant based diet/lifestyle and the benefits of this type of lifestyle. Students will learn about the physical benefits of a plant based diet, organic foods, current environmental impacts of the big agricultural companies, animal welfare, and workers' rights as well as the research that has been documented to support the information.									
ONL	HE-207-01	333940							
	T. NELSON	\$378.00	\$39.00	\$0.00	\$417.00				
HE-223	SPORTS NUTRITION, 3 CREDITS								
Examination of nutrition as it relates to the demands of exercise and competitive sport. Emphasis on the relationship of diet and exercise to optimal health and performance. This course can lead to a certification as a sports nutritionist through the NCSF.									
ONL	HE-223-01	333941							
	J. BUEL	\$378.00	\$39.00	\$0.00	\$417.00				
HE-249	MENTAL HEALTH, 3 CREDITS								
Designed for each student to understand and improve their personal mental health. Teaches theories of mental health as well as practical strategies for improving one's level of mental health. Analyzes factors that may impede optimal mental health, again with practical solutions for minimizing/avoiding such factors.									
REM	HE-249-01	333943 MW			1-2:20 PM				
	K. WOODS	\$378.00	\$39.00	\$0.00	\$417.00				

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

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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
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	333949								
	J. RHODEN					\$378.00	\$39.00	\$0.00		\$417.00
ONL	HE-250-02	333954								
	J. RHODEN					\$378.00	\$39.00	\$0.00		\$417.00
	Meets: 11/2-12/14.									
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	HE-252-01	333955								
	K. ARIZO					\$378.00	\$39.00	\$35.00		\$452.00
ONL	HE-252-03	333956								
	T. NELSON					\$378.00	\$39.00	\$35.00		\$452.00
ONL	HE-252-05	333957								
	K. WOODS					\$378.00	\$39.00	\$35.00		\$452.00
HE-280	HEALTH/CWE, 2-6 CREDITS									
Cooperative work experience. Provides students with on-the-job experience and training related to the Physical Education field. Covers job problems and procedures, evaluation of students' job performance by qualified college staff and site supervision. May be repeated for up to 12 credits. Required: Student Petition.										
Corequisites: CWE-281										
ONL LCT	HE-280-01	333958								
	T. NELSON					\$756.00	\$78.00	\$45.00		\$879.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.									

Health & Fitness

HPE-295 HEALTH & FITNESS FOR LIFE, 3 CREDITS

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

Recommended: A completed physical by a doctor

ONL	HPE-295-01	334013								
	P. FISKUM					\$378.00	\$39.00	\$30.00		\$447.00
ONL	HPE-295-02	334023								
	J. BUEL					\$378.00	\$39.00	\$30.00		\$447.00
ONL	HPE-295-03	334024								
	J. RHODEN					\$378.00	\$39.00	\$30.00		\$447.00

Health Professions

HP-110 MEDICAL TERMINOLOGY, 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

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	337499								
	T. BOYD					\$504.00	\$52.00	\$60.00		\$616.00
	Required: Student Petition.									
ONL	HP-110-02	337501								
	T. BOYD					\$504.00	\$52.00	\$60.00		\$616.00
	Required: Student Petition.									
ONL	HP-110-03	337502								
	T. BOYD					\$504.00	\$52.00	\$60.00		\$616.00
	Required: Student Petition.									
ONL	HP-110-04	337503								
	T. BOYD					\$504.00	\$52.00	\$60.00		\$616.00
	Required: Student Petition.									

HP-120 INTRODUCTION TO HEALTH SCIENCES, 3 CREDITS

This course introduces students to Career Technical Education (CTE) Programs within Health Professions and prepares students for next steps in applying for competitive program entry.

Prerequisites: WRD-098 or placement in WR-101

ONL	HP-120-01	337742								
	S. DAVENPORT					\$378.00	\$39.00	\$0.00		\$417.00

High School Diploma (AHSD)

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

ASE-042 JOB SKILLS COMPETENCY LAB, 0.5 CREDIT

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

OC HYB	ASE-042-03	333585 M								
	M. TIZO					\$0.00	\$0.00	\$0.00		\$0.00
	Required: Student Petition.									

XASE-0001 BASIC ESSENTIAL SKILLS SUPPORT, 0 CREDIT

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

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
HAR HYB	XASE-0001-03 334503 MW M. NICKAS Required: Student Petition.					\$0.00	\$0.00	10-11:50 AM	\$30.00	\$30.00

History

HST-101 HISTORY OF WESTERN CIVILIZATION, 4 CREDITS

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

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

OC HYB LCT	HST-101-01 334145 W P. MCFARLAND Online textbook provided first day of class.					\$504.00	\$52.00	10-11:50 AM	\$0.00	\$556.00
ONL LCT	HST-101-02 337616 P. MCFARLAND Online textbook provided first day of class.					\$504.00	\$52.00		\$0.00	\$556.00

HST-103 HISTORY OF WESTERN CIVILIZATION, 4 CREDITS

Development of Western Civilization with an emphasis on Europe from the 19th century to the present.

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

ONL LCT	HST-103-01 334151 P. MCFARLAND Online textbook provided first day of class.					\$504.00	\$52.00		\$0.00	\$556.00
---------	--	--	--	--	--	----------	---------	--	--------	----------

HST-137 HISTORY OF SCIENCE, MEDICINE, & TECHNOLOGY IN WESTERN CIVILIZATION, 4 CREDITS

Traces the major developments in western civilization in the fields of science, medicine and technology from ancient Greece to the present. Includes an examination of the biographies of prominent scientists, doctors and engineers.

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

ONL	HST-137-01 337617 P. MCFARLAND					\$504.00	\$52.00		\$0.00	\$556.00
-----	--	--	--	--	--	----------	---------	--	--------	----------

HST-201 HISTORY OF THE UNITED STATES, 4 CREDITS

Covers the period in American history from first European contact through the Age of Jackson.

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

Recommended: Sequence of HST-201, HST-202, and HST-203 is taken in order

OC	HST-201-01 334155 TTH J. FLOWERS Online textbook included in section fees.					\$504.00	\$52.00	10-11:50 AM	\$54.38	\$610.38
ONL	HST-201-02 334158 J. FLOWERS Online textbook included in section fees.					\$504.00	\$52.00		\$54.38	\$610.38

HST-202 HISTORY OF THE UNITED STATES, 4 CREDITS

Covers the period of United States history from the Age of Jackson to World War I. Recommended that sequence is taken in order.

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

Recommended Prerequisites: Sequence of HST-201, HST-202, and HST-203 is taken in order

ONL	HST-202-01 334160 J. FLOWERS Online textbook included in section fees.					\$504.00	\$52.00		\$54.38	\$610.38
-----	---	--	--	--	--	----------	---------	--	---------	----------

HST-280 HISTORY/CWE, 2-6 CREDITS (VAR)

Campus Locations:

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

Distance Education Notification:

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

Other Coding Translations:

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

ESPAÑOL: Enseñado en español

LCT: Low-Cost Text

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
	Cooperative work experience. Provides students with on-the-job work experience in the field of history. Required: Student Petition. Corequisites: CWE-281									
OC	HST-280-01 334162 J. FLOWERS Required: Student Petition. Corequisite: Take the following CWE-281-06.					\$756.00	\$78.00		\$45.00	\$879.00V

Horticulture/Arboriculture/Landscape/Organic Farming

For more information call 503-594-3292 or email horticulture@clackamas.edu

HOR-111 HORTICULTURE PRACTICUM/FALL, 2 CREDITS

Practical experience with seasonal horticulture activities in the areas of container nurseries, greenhouses, landscape management, arboriculture, and organic food production.

OC	HOR-111-01 333961 M F. KILDERS G. LOEFFLER					\$252.00	\$26.00	8-11:50 AM	\$45.00	\$323.00
----	---	--	--	--	--	----------	---------	------------	---------	----------

HOR-113 ORGANIC FARMING PRACTICUM/FALL, 3 CREDITS

Essential organic farming practices, including seasonal activities such as crop rotation, cover cropping, four-season production strategies, soil testing, and calculating soil amendment needs. Class lecture, field trips, and lab are all included components of this course. This format has been selected to create a hands-on experience for each student in seasonal crop production.

OC LCT	HOR-113-01 333963 T D. ROSTAD					\$378.00	\$39.00	8-11:50 AM	\$75.00	\$492.00
--------	---	--	--	--	--	----------	---------	------------	---------	----------

HOR-115 HORTICULTURE SAFETY, 1 CREDIT

Introduction to situational awareness and safe practices in the horticulture workplace to reduce the risk or chance for accidents and injuries.

ONL LCT	HOR-115-01 333966 J. WENTWORTH-PLATO Meets: Online 9/30-11/1.					\$126.00	\$13.00		\$15.00	\$154.00
---------	--	--	--	--	--	----------	---------	--	---------	----------

HOR-118 SPANISH FOR HORTICULTURE, 4 CREDITS

This course introduces basic vocabulary and structures of the Spanish language for students to be able to communicate in the Horticultural environment. The class introduces students to the culture of the Spanish speaking people, especially those that reside in their own area and within the United States. The course emphasizes oral communication, but all four skills of language are introduced: listening, speaking, reading and writing.

OC LCT	HOR-118-01 337585 MW G. LOEFFLER					\$504.00	\$52.00	3-4:50 PM	\$15.00	\$571.00
--------	--	--	--	--	--	----------	---------	-----------	---------	----------

HOR-124 FOOD HARVEST, 3 CREDITS

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

This course provides a basic knowledge of aspects of harvesting, handling, storing, and marketing of produce from small-scale, organic operations. Topics include: food safety laws and practices, harvest and storage requirements for a variety of crops, factors that impact quality and storage ability, post-harvest biology, Organic certification standards, and regulations for selling value added products. Students in this class will be actively harvesting, washing, packing, and selling produce from the Student Organic Farm.

OC LCT	HOR-124-01	333967 W			8-11:50 AM	
	D. ROSTAD		\$378.00	\$39.00	\$75.00	\$492.00

HOR-130 PLANT PROPAGATION TECHNIQUES, 3 CREDITS

Covers plant anatomy and reproduction techniques of plants from seed, cuttings, grafting, division, and micro-propagation (tissue culture). Offers an in-depth overview of plant propagation practices.

OC LCT	HOR-130-01	333969 TH			8-11:50 AM	
	F. KILDERS		\$378.00	\$39.00	\$35.00	\$452.00

HOR-140 SOILS, 3 CREDITS

Soil characteristics and management, including nutritional elements and the relationship between the soil and plant growth.

OC LCT	HOR-140-01	333973 TH			1-3:50 PM	
	D. FRANEK		\$378.00	\$39.00	\$65.00	\$482.00

HOR-212 FLOWER ARRANGER'S GARDEN, 2 CREDITS

Learn to identify and use organic methods to grow fall season plants which are suitable for use as cut flowers and foliage. Includes basic floral design and visits to local cutting gardens. Ideal for garden designers, home gardeners, and growers of commercial cutting gardens.

OC LCT	HOR-212-01	337586 T			1-4:50 PM	
	L. BEUTLER		\$252.00	\$26.00	\$65.00	\$343.00

HOR-223 APPLIED PLANT SCIENCE, 4 CREDITS

An overview of the practical aspects of plant growth and development, classification systems, plant breeding and environmental factors in managing plant growth.

OC LCT	HOR-223-01	333976 MW			1-2:50 PM	
	C. KONIECZKA		\$504.00	\$52.00	\$30.00	\$586.00

HOR-224 LANDSCAPE INSTALLATION, 3 CREDITS

Materials and practices in landscape installation, including plan reading, materials take-off, estimating, bidding, scheduling, grading, construction materials, and plant installation. Provides an overview of Oregon state landscape contracting and licensing requirements.

Recommended Prerequisites: MTH-050

oc	HOR-224-01	333977 TH			1-4:50 PM	
	A. CHASTAIN		\$378.00	\$39.00	\$60.00	\$477.00

HOR-225 ARBORICULTURE I, 3 CREDITS

Management of trees in residential, commercial, and urban landscapes. Follows course materials prepared by the International Society of Arboriculture (ISA). Topics covered include tree anatomy, selection, installation, response to damage, soil characteristics, pruning techniques and diagnosis of pest problems. Prepares student for HOR-260.

OC HYB	HOR-225-01	333978 T			2-4:50 PM	
	J. WENTWORTH-PLATO		\$378.00	\$39.00	\$25.00	\$442.00

HOR-226 PLANT IDENTIFICATION/FALL, 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

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

Identification of deciduous trees, shrubs, and groundcovers, including their cultural requirements in the landscape. Oregon State University transfer course.

OC LCT	HOR-226-01	333981 T			8-11:50 AM	
	F. KILDERS		\$504.00	\$52.00	\$45.00	\$601.00
OC HYB LCT	HOR-226-02	333983 W			6-8:30 PM	
	J. WENTWORTH-PLATO		\$504.00	\$52.00	\$15.00	\$571.00

HOR-235 WEED IDENTIFICATION, 2 CREDITS

Identification and life cycles of weeds commonly found in landscapes, nurseries, and farms.

REM LCT	HOR-235-01	333985 T			6-7:50 PM	
	F. KILDERS		\$252.00	\$26.00	\$20.00	\$298.00
Meets: Remote 10/1-10/29 on day and time listed, plus additional online hours.						

HOR-236 INSECT IDENTIFICATION, 2 CREDITS

Develop skills to identify common pest and insect life stages that damage or benefit plants in the landscape, farm, and greenhouse.

OC HYB LCT	HOR-236-01	333987 T			6-7:50 PM	
	J. WENTWORTH-PLATO		\$252.00	\$26.00	\$40.00	\$318.00
Meets: In-person 11/5-12/3, plus additional online hours.						

HOR-252 KITCHEN HERBS, 1 CREDIT

Instruction will focus on how to use common herbs and spices in a variety of edible forms.

OC LCT	HOR-252-01	333989 F			8-11:50 AM	
	D. ROSTAD		\$126.00	\$13.00	\$65.00	\$204.00
Meets: 10/4-11/1.						

HOR-262 TREEWORk PRACTICUM I, 2 CREDITS

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

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

OC LCT	HOR-262-01	333990 F			10-12:30 PM	
	J. WENTWORTH-PLATO	F	\$252.00	\$26.00	\$95.00	\$373.00
If you have arboriculture industry experience and wish to take this class, contact jimwp@clackamas.edu.						

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

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

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

Prerequisites: HOR-262

OC LCT	HOR-264-01	333992 F			10-12:30 PM	
		F			1-4:30 PM	
	J. WENTWORTH-PLATO		\$252.00	\$26.00	\$95.00	\$373.00
	If you have arboriculture industry experience and wish to take this class, contact jimwp@clackamas.edu.					

HOR-280 HORTICULTURE/CWE, 3 CREDITS

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

Corequisites: CWE-281

OC LCT	HOR-280-01	333994				
	C. KONIECZKA		\$378.00	\$39.00	\$45.00	\$462.00
	Required: Student Petition. Contact: chrisk@clackamas.edu.					
	Corequisite: Take the following CWE-281-06.					

HOR-281 HORTICULTURE/CWE, 6 CREDITS

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

Corequisites: CWE-281

OC LCT	HOR-281-01	333996				
	C. KONIECZKA		\$756.00	\$78.00	\$45.00	\$879.00
	Required: Student Petition. Contact: chrisk@clackamas.edu.					
	Corequisite: Take the following CWE-281-06.					

HOR-282 HORTICULTURE/CWE, 3 CREDITS

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

Corequisites: CWE-281

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

OC LCT	HOR-282-01	334003				
	C. KONIECZKA		\$378.00	\$39.00	\$45.00	\$462.00
	Required: Student Petition. Contact: chrisk@clackamas.edu.					
	Corequisite: Take the following CWE-281-06.					

HOR-285 ORGANIC FARMING/CWE, 3 CREDITS

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

Corequisites: CWE-281

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

OC LCT	HOR-285-01	334009				
	C. KONIECZKA		\$378.00	\$39.00	\$45.00	\$462.00
	Required: Student Petition. Contact: chrisk@clackamas.edu.					
	Corequisite: Take the following CWE-281-06.					

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

Human Services

HS-100 INTRODUCTION TO HUMAN SERVICES, 3 CREDITS

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

OC HYB LCT	HS-100-01	334131 W			10-11:50 AM	
	Y. SMITH		\$378.00	\$39.00	\$0.00	\$417.00
OC HYB LCT	HS-100-02	334133 TH			10-11:50 AM	
	Y. SMITH		\$378.00	\$39.00	\$0.00	\$417.00
	Meets on four Thursdays (10/3, 10/17, 10/31, & 12/5).					

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

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

Prerequisites: HS-100 or HS-154

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

ONL	HS-170-01	337575				
	Y. SMITH		\$126.00	\$13.00	\$0.00	\$139.00
	Required: Student Petition.					

HS-206 TRAUMA INFORMED PRACTICES, 3 CREDITS

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

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

ONL	HS-206-01	334134				
	J. CRAWFORD		\$378.00	\$39.00	\$0.00	\$417.00

HS-210 MOTIVATIONAL INTERVIEWING, 3 CREDITS

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

Recommended Prerequisites: HS-156

OC HYB	HS-210-01	334136 W			1-2:50 PM	
	Y. SMITH		\$378.00	\$39.00	\$0.00	\$417.00

HS-216 GROUP COUNSELING SKILLS, 3 CREDITS

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

This course provides students with strategies and skills for group work with a variety of clients. Explores leadership styles and skills, group formation and stages, and the ethics of working with groups. The course will address the knowledge needed to develop, run, and evaluate groups for a variety of human service topics, including substance use treatment. Theories of therapeutic group work will also be discussed.

Prerequisites: HS-156 with a C or better

OC HYB	HS-216-01	334137 F			10-11:50 AM	
	C. BAKER		\$378.00	\$39.00	\$0.00	\$417.00

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

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

Prerequisites: HS-170

Corequisites: HS-270

OC HYB LCT	HS-280-01	334139				
	J. LOVELESS		\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Student Petition.					

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

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

Prerequisites: HS-170

Corequisites: HS-270

OC HYB LCT	HS-281-01	334141				
	J. LOVELESS		\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Student Petition.					

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

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

Corequisites: CWE-281

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

OC HYB LCT	HS-282-01	334143				
	J. LOVELESS		\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Student Petition.					

Humanities

HUM-235 PERSPECTIVES ON TERRORISM, 4 CREDITS

Examines multiple perspectives of terrorism and investigates their assumptions and beliefs. Perspectives will include historical and psychological approaches as well as those of other academic disciplines, including art, literature, religion, and philosophy.

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

OC LCT	HUM-235-01	334165 TTH			1-2:50 PM	
	J. FLOWERS		\$504.00	\$52.00	\$0.00	\$556.00
	No textbook required.					

Industrial Maintenance Technology

Campus Locations:

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

Distance Education Notification:

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

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

IMT-104 READING SCHEMATICS AND SYMBOLS, 2 CREDITS

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

OC	IMT-104-01	334026 T			6:30 -8:20 PM	
	C. CONNORS		\$252.00	\$26.00	\$102.50	\$380.50

Journalism

J-211 MASS MEDIA & SOCIETY, 4 CREDITS

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

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

OC LCT	J-211-01	333331 MW			10-11:50 AM	
	M. JONES		\$504.00	\$52.00	\$10.00	\$566.00

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

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

Recommended Prerequisites: Placement in WR-121Z

OC LCT	J-215-01	333334 MW			1-2:50 PM	
	M. JONES		\$504.00	\$52.00	\$10.00	\$566.00

J-220 PODCASTING AND VIDEO JOURNALISM, 4 CREDITS

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

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

REM LCT	J-220-01	333337 T			10-11:50 AM	
	J. SONNENMAIR		\$504.00	\$52.00	\$10.00	\$566.00
	Additional hours online.					

J-221 INTERMEDIATE PODCASTING AND VIDEO JOURNALISM, 4 CREDITS

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

Prerequisites: J-220 with a C or better

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

REM LCT	J-221-01	333343 T			10-11:50 AM	
	J. SONNENMAIR		\$504.00	\$52.00	\$10.00	\$566.00
	Additional hours online.					

J-225 INTERMEDIATE COLLEGE NEWS: WRITING & PHOTOGRAPHY, 4 CREDITS

Intermediate news writing and photojournalism for publication in the student-run Clackamas Print news website, newspaper and social media sites. Generate original story ideas, publish photo essays and complete more complicated interviews on multiple projects in news, arts, sports and opinion writing. Apply media ethics to social, online and print media. May be repeated for up to 8 credits.

Other Coding Translations:

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

ESPAÑOL: Enseñado en español

LCT: Low-Cost Text

Course Listing

2024/FA

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
Prerequisites: J-215										
Recommended Prerequisites: Placement in WR-121Z										
OC LCT	J-225-01	333348 MW	M. JONES			\$504.00	\$52.00	1-2:50 PM	\$0.00	\$556.00
J-226	INTRODUCTION TO COLLEGE NEWS: DESIGN & PRODUCTION, 4 CREDITS									
Students work as designers and media creators for The Clackamas Print, the college's award-winning student newspaper, website and social media sites. Students design the student newspaper, create social media posts and produce related multimedia content using Adobe software and other products. May be repeated for up to 8 credits.										
Recommended Prerequisites: Placement in WR-121Z										
OC LCT	J-226-01	333350 T	M. JONES			\$504.00	\$52.00	1-4:50 PM	\$10.00	\$566.00
J-227	INTERMEDIATE COLLEGE NEWS: DESIGN & PRODUCTION, 4 CREDITS									
Offers students intermediate work as designers and media creators for The Clackamas Print, the college's award-winning student newspaper, website and social media sites. Students design the student newspaper, create social media posts and produce related multimedia journalism content using Adobe software and other products. May be repeated for up to 8 credits.										
Prerequisites: J-226										
OC LCT	J-227-01	333353 T	M. JONES			\$504.00	\$52.00	1-4:50 PM	\$0.00	\$556.00
J-228	ADVANCED COLLEGE NEWS: DESIGN & PRODUCTION, 4 CREDITS									
Offers students advanced work as designers and media creators for The Clackamas Print, the college's award-winning student newspaper, website and social media sites. Students design the student newspaper, create social media posts and produce related multimedia journalism content using Adobe software and other products. May be repeated for up to 8 credits.										
Prerequisites: J-227										
OC LCT	J-228-01	333357 T	M. JONES			\$504.00	\$52.00	1-4:50 PM	\$0.00	\$556.00
J-235	ADVANCED COLLEGE NEWS: WRITING & PHOTOGRAPHY, 4 CREDITS									
Advanced news writing and photography for publication online, in social media and in the student-run newspaper, The Clackamas Print. Students apply Associated Press style, use journalism ethics and cover a variety of topics and events in words and photos to build their journalism portfolios. May be repeated for up to 8 credits.										
Prerequisites: J-225										
Recommended Prerequisites: Placement in WR-121Z										
OC LCT	J-235-01	333360 MW	M. JONES			\$504.00	\$52.00	1-2:50 PM	\$0.00	\$556.00
J-280	JOURNALISM/CWE, 2-6 CREDITS									
Cooperative work experience. Provides the student with on-the-job experience and training related to journalism. Required: Student Petition.										
Corequisites: CWE-281										
ONL LCT	J-280-01	333361	M. JONES			\$756.00	\$78.00		\$45.00	\$879.00V
Required: Student Petition.										
J-280A	PUBLIC RELATIONS/CWE, 2-6 CREDITS									

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
Cooperative work experience. Provides the student with on-the-job experience and training related to public relations. Required: Student Petition.										
ONL LCT	J-280A-01	333372	M. JONES			\$756.00	\$78.00		\$45.00	\$879.00V
Required: Student Petition.										

Library

LIB-101	INTRODUCTION TO LIBRARY RESEARCH, 1 CREDIT									
Introduces and strengthens college-level research skills. Students will build an understanding of strategies for finding, evaluating, and using information responsibly. Prepares students for success in research-based college assignments and real-life research needs.										
ONL LCT	LIB-101-01	334030	TBA			\$0.00	\$0.00		\$0.00	\$0.00
Meets: 9/30-11/30.										
ONL LCT	LIB-101-02	334032	TBA			\$0.00	\$0.00		\$0.00	\$0.00
Meets: 9/30-11/30.										
ONL LCT	LIB-101-03	334034	TBA			\$0.00	\$0.00		\$0.00	\$0.00
Meets: 9/30-11/30.										
ONL LCT	LIB-101-04	337587	TBA			\$0.00	\$0.00		\$0.00	\$0.00
Meets: 10/14-12/14.										

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	334081 MW	M. FRAZIER			\$504.00	\$52.00	8-11:50 AM	\$205.00	\$761.00

MTT-121	CNC I: SET-UP AND OPERATION, 4 CREDITS									
This is the first course in the CNC sequence. Students will learn basic skills including how to properly set-up and operate both CNC milling and turning centers. Students will also learn G & M codes related to basic machine set-up and operation. Designed for persons with little or no previous CNC experience.										
OC	MTT-121-01	334086 TTH	J. CARLSTON			\$504.00	\$52.00	8-11:50 AM	\$205.00	\$761.00

MTT-241	CAD/CAM II, 4 CREDITS									
This course is the second in the Computer-Aided Machining (CAM) series and will greatly expand the student's existing CAD/CAM skills by exploring more advanced software features and programming techniques. There will be a strong emphasis placed on the entire CAD/CAM/CNC part machining process. An introduction to 4-axis mill programming will be included.										
Prerequisites: MTT-122 and MTT-141										
OC	MTT-241-01	334093 TTH	C. LETTENMAIER			\$504.00	\$52.00	12-3:50 PM	\$205.00	\$761.00

MTT-252	MACRO PROGRAMMING AND MACHINE PROBING, 3 CREDITS									
----------------	---	--	--	--	--	--	--	--	--	--

Library

LIB-101 INTRODUCTION TO LIBRARY RESEARCH, 1 CREDIT

Introduces and strengthens college-level research skills. Students will build an understanding of strategies for finding, evaluating, and using information responsibly. Prepares students for success in research-based college assignments and real-life research needs.

ONL LCT	LIB-101-01	334030	TBA			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Meets: 9/30-11/30.										
ONL LCT	LIB-101-02	334032	TBA			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Meets: 9/30-11/30.										
ONL LCT	LIB-101-03	334034	TBA			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Meets: 9/30-11/30.										
ONL LCT	LIB-101-04	337587	TBA			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Meets: 10/14-12/14.										

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	334081 MW	M. FRAZIER			\$504.00	\$52.00	8-11:50 AM	\$205.00	\$761.00
----	-------------------	------------------	------------	--	--	----------	---------	------------	----------	----------

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

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

OC	MTT-121-01	334086 TTH	J. CARLSTON			\$504.00	\$52.00	8-11:50 AM	\$205.00	\$761.00
----	-------------------	-------------------	-------------	--	--	----------	---------	------------	----------	----------

MTT-241 CAD/CAM II, 4 CREDITS

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

Prerequisites: MTT-122 and MTT-141

OC	MTT-241-01	334093 TTH	C. LETTENMAIER			\$504.00	\$52.00	12-3:50 PM	\$205.00	\$761.00
----	-------------------	-------------------	----------------	--	--	----------	---------	------------	----------	----------

MTT-252 MACRO PROGRAMMING AND MACHINE PROBING, 3 CREDITS

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

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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
<p>This course is an introduction to Fanuc-based, custom macro programming for individuals with some previous G&M-code programming experience. Students will learn to define and apply macro variables, program branching, macro functions and operators and implement repetitive looping. Additional topics will include custom alarms and assignment of G & M codes to macros. Students will write and prove out programs on HAAS CNC controls utilizing all basic functions of the language using Renishaw touch probes.</p> <p>Recommended Prerequisites: MTT-122 or competence with basic G&M-code mill programming (FANUC/Haas-style)</p>										
oc	MTT-252-01	334095 MW	1-3:50 PM							
	C. LETTENMAIER	\$378.00	\$39.00	\$153.75	\$570.75					
Manufacturing Technology										
<p><i>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.</i></p>										
MFG-103 MACHINING FOR FABRICATION & MAINTENANCE, 3 CREDITS										
<p>This course is an introduction to metal working for welders, fabricators, maintenance personnel and others who need to understand simple machining principles. Students will be introduced to precision measurement with calipers and micrometers. Combination squares, protractor dividers and scribes will be used for semi-precision layout of workpieces in preparation for machining. The elementary use of the drill press, band saw, milling machine and lathe, as well as hand tools, will be practiced during hands-on labs. A discussion of thread systems will include nomenclature, measurement, tapping, chasing and repair.</p> <p>Prerequisites: MTH-050 or higher</p>										
OC HYB LCT	MFG-103-01	334042 TTH	12:30 -3:20 PM							
	J. CARLSTON	\$378.00	\$39.00	\$153.75	\$570.75					
MFG-104 PRINT READING, 3 CREDITS										
<p>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.</p>										
oc	MFG-104-01	334046 TTH	3:30 -4:50 PM							
	C. CONNORS	\$378.00	\$39.00	\$153.75	\$570.75					
MFG-106 ADVANCED APPLIED GEOMETRIC DIMENSIONING AND TOLERANCING FOR MANUFACTURING, 3 CREDITS										
<p>Introduces participants to the application of gauging and inspection using Geometric Dimensioning and Tolerancing (GDT). Students will identify inspection equipment and inspect GDT characteristics while experiencing their manufacturing implications.</p> <p>Prerequisites: MFG-104</p>										
OC HYB	MFG-106-01	334051 M	4:30 -7:20 PM							
	P. WANNER	\$378.00	\$39.00	\$153.75	\$570.75					
MFG-107 INDUSTRIAL SAFETY & FIRST AID, 3 CREDITS										
<p>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.</p>										
OC HYB	MFG-107-01	334054 F	2-4:50 PM							
	L. HILLYARD	\$378.00	\$39.00	\$153.75	\$570.75					
MFG-109 COMPUTER LITERACY FOR TECHNICIANS, 3 CREDITS										
<p>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.</p>										
REM	MFG-109-01	334060 F	8-10:50 AM							
	A. ARISTIZABAL	\$378.00	\$39.00	\$282.19	\$699.19					
Online textbook included in section fees.										
MFG-110 MANUFACTURING SPECIAL PROJECTS, 1 CREDIT										
<p>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.</p>										
oc	MFG-110-01	334062 MW	8-9:20 AM							
	C. LETTENMAIER	\$126.00	\$13.00	\$51.25	\$190.25					
Required: Student Petition.										
MFG-130 BASIC ELECTRICITY I, 3 CREDITS										
<p>Explores fundamentals of AC and DC electricity. Includes: atomic structure, direct current, alternating current, Ohm's law, series, parallel, and combination circuits, DC circuit theorems, production of DC voltages, magnetic principles, transformers, motors and generators.</p>										
oc	MFG-130-01	334064 F	5-7:50 PM							
	B. KARM	\$378.00	\$39.00	\$153.75	\$570.75					
MFG-218 LEAN MANUFACTURING AND QUALITY SYSTEMS, 3 CREDITS										
<p>This survey course provides students with literacy in the elements of quality systems including Lean Manufacturing/Six Sigma and related statistical methods. Participants will learn about the philosophy and tools that make up a lean manufacturing system. Students will become familiar with the concepts and tools of quality management which include kaizen, visual management, 5S, value stream mapping, A3 problem solving, SPC, Six Sigma, and the Toyota Production System.</p>										
oc	MFG-218-01	334066 TTH	5-6:20 PM							
	C. CONNORS	\$378.00	\$39.00	\$153.75	\$570.75					
MFG-221 MATERIALS SCIENCE, 3 CREDITS										
<p>Introduces metallurgy and material science. Extractive and physical metallurgy will be covered. Specific topics include heat treatment, materials analysis, the iron carbon phase diagram, composites, ceramics and industrial plastics.</p> <p>Recommended Prerequisites: MTH-050</p>										
OC HYB	MFG-221-01	334068 TTH	10-12:50 PM							
	M. MATTSON	\$378.00	\$39.00	\$153.75	\$570.75					
MFG-271 MASTERCAM MILL I, 4 CREDITS										
<p>Covers the creation and manipulation of two and three dimensional wire frame models as well as the creating, editing, and verification of 2-1/2 axis toolpaths. A fundamental understanding of the CAD/CAM process will be gained.</p>										
REM	MFG-271-01	334071 TTH	4:30 -8:20 PM							
	C. LETTENMAIER	\$504.00	\$52.00	\$205.00	\$761.00					
MFG-280 MANUFACTURING TECHNOLOGY/CWE, 1-6 CREDITS										
<p>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.</p>										

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

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

Corequisites: CWE-281

ONL	MFG-280-01	334075				
	M. MATTSON		\$756.00	\$78.00	\$75.00	\$909.00V
Required: Student Petition. Corequisite: Take the following CWE-281-06.						

Mathematics

MTH-010 FUNDAMENTALS OF ARITHMETIC I, 4 CREDITS

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

OC LCT	MTH-010-01	334167 MW			1-2:50 PM	
	TBA		\$504.00	\$52.00	\$20.00	\$576.00

MTH-020 FUNDAMENTALS OF ARITHMETIC II, 4 CREDITS

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

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

HAR LCT	MTH-020-01	334177 TTH			10-11:50 AM	
	M. NICKAS		\$504.00	\$52.00	\$20.00	\$576.00
OC HYB LCT	MTH-020-02	334183 T			1-2:50 PM	
	M. NICKAS		\$504.00	\$52.00	\$20.00	\$576.00

MTH-020ES FUNDAMENTOS DE ARITMÉTICA II, 4 CREDITS

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

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

HAR LCT ESPAÑOL	MTH-020ES-01	337714 TTH			10-11:50 AM	
	A. ARISTIZABAL		\$504.00	\$52.00	\$20.00	\$576.00
Required: Student Petition.						
HAR LCT ESPAÑOL	MTH-020ES-01ASE	337717 TTH			10-11:50 AM	
	A. ARISTIZABAL		\$0.00	\$0.00	\$0.00	\$0.00
Required: Student Petition.						

MTH-050 TECHNICAL MATHEMATICS I, 4 CREDITS

Designed for career-technical students. Topics focus on critical thinking, problem solving, and mathematical communication using applications 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	334185 TTH			10-11:20 AM	
	M. CHASE		\$504.00	\$52.00	\$20.00	\$576.00
OC HYB LCT	MTH-050-03	334191 MW			1-2:20 PM	
	B. WEBBER		\$504.00	\$52.00	\$20.00	\$576.00
OC HYB LCT	MTH-050-04	337589 MW			6-7:20 PM	
	B. WEBBER		\$504.00	\$52.00	\$20.00	\$576.00

MTH-050ES MATEMÁTICAS TÉCNICAS I, 4 CREDITS

Este curso está diseñado para estudiantes de carreras técnicas. Los temas se centran en el pensamiento crítico, la resolución de problemas y la comunicación matemática utilizando aplicaciones de aritmética, mediciones, geometría, estadística y probabilidades.

Prerequisites: MTH-020 con una C o mejor, o ubicación en MTH-050 o superior

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

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

REM LCT ESPAÑOL	MTH-050ES-01	334193 F			5-8:50 PM	
	A. ARISTIZABAL		\$504.00	\$52.00	\$20.00	\$576.00

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

OC HYB LCT	MTH-060-01	334195 TTH			1-2:20 PM	
	E. MEUSER		\$504.00	\$52.00	\$20.00	\$576.00
OC HYB LCT	MTH-060-10	334198 TBA				
	A. ARISTIZABAL		\$504.00	\$52.00	\$20.00	\$576.00
Meets for in-person testing dates only; the section is otherwise asynchronous.						
HAR LCT	MTH-060-15	334201 MW			9-10:50 AM	
	A. ARISTIZABAL		\$504.00	\$52.00	\$20.00	\$576.00
HAR LCT	MTH-060-16	334203 TTH			6-7:50 PM	
	B. WEBBER		\$504.00	\$52.00	\$20.00	\$576.00

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

OC HYB LCT	MTH-065-01	334206 MW			10-11:20 AM	
	J. KUOHA		\$504.00	\$52.00	\$20.00	\$576.00
OC HYB LCT	MTH-065-02	334212 TTH			1-2:20 PM	
	A. HALL		\$504.00	\$52.00	\$20.00	\$576.00
OC HYB LCT	MTH-065-03	334214 W			1-3:50 PM	
	A. HALL		\$504.00	\$52.00	\$20.00	\$576.00
OC HYB LCT	MTH-065-10	334215 TBA				
	A. ARISTIZABAL		\$504.00	\$52.00	\$20.00	\$576.00
Meets for in-person testing dates only; the section is otherwise asynchronous.						
HAR LCT	MTH-065-15	334219 MW			9-10:50 AM	
	A. ARISTIZABAL		\$504.00	\$52.00	\$20.00	\$576.00
HAR LCT	MTH-065-16	334221 TTH			6-7:50 PM	
	B. WEBBER		\$504.00	\$52.00	\$20.00	\$576.00

MTH-082A WASTEWATER MATH I, 1 CREDIT

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

Corequisites: WET-110

OC HYB	MTH-082A-01	334077 M			5-5:50 PM	
	M. LAFORCE		\$126.00	\$13.00	\$10.00	\$149.00

MTH-082B WATERWORKS MATH I, 1 CREDIT

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

Corequisites: WET-111

OC HYB	MTH-082B-01	334078 T			5-5:50 PM	
	J. NURMI		\$126.00	\$13.00	\$10.00	\$149.00

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

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

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

Corequisites: WET-125

REM	MTH-082E-01	334079 W		2-2:50 PM		
	G. CARR	\$126.00	\$13.00	\$10.00	\$149.00	

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 HYB LCT	MTH-095-01	334223 W		9-11:50 AM		
	TBA	\$504.00	\$52.00	\$20.00	\$576.00	
OC HYB LCT	MTH-095-02	334226 TTH		10-11:20 AM		
	J. HEVEL	\$504.00	\$52.00	\$20.00	\$576.00	
OC HYB LCT	MTH-095-03	334227 MW		1-2:20 PM		
	M. PARTNOF	\$504.00	\$52.00	\$20.00	\$576.00	
OC HYB LCT	MTH-095-04	334231 TTH		1-2:20 PM		
	TBA	\$504.00	\$52.00	\$20.00	\$576.00	
OC HYB LCT	MTH-095-05	334234 MW		3-4:20 PM		
	J. KUOHA	\$504.00	\$52.00	\$20.00	\$576.00	
OC HYB LCT	MTH-095-10	334235 TBA				
	M. HAUGEN	\$504.00	\$52.00	\$20.00	\$576.00	
	Meets for in-person testing dates only; the section is otherwise asynchronous.					
HAR HYB LCT	MTH-095-15	334239 W		6-7:50 PM		
	A. BRANDENBURG	\$504.00	\$52.00	\$20.00	\$576.00	

MTH-098 COLLEGE MATH FOUNDATIONS, 4 CREDITS

In our society, we see and hear about important topics and trends that involve numbers. In this class, participants work to understand what these numbers mean. Students will use percentages to make comparisons, interpret and construct graphs to describe phenomena, compare ways of describing quantities through unit conversions, explore the ways we use the idea of average, and use rates and ratios to describe how things grow and change. Learning happens in small student groups, using technology, and through writing. The class is project-based, meaning that students complete projects to demonstrate what they've learned.

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

OC HYB LCT	MTH-098-01	334241 TTH		10-11:20 AM		
	M. YANNOTTA	\$504.00	\$52.00	\$20.00	\$576.00	
OC HYB LCT	MTH-098-02	334244 MW		1-2:20 PM		
	K. PHILLIPS	\$504.00	\$52.00	\$20.00	\$576.00	
ONL LCT	MTH-098-10	334246				
	M. JOSI	\$504.00	\$52.00	\$20.00	\$576.00	
ONL LCT	MTH-098-11	334247				
	K. AMREIN	\$504.00	\$52.00	\$20.00	\$576.00	

MTH-105Z MATH IN SOCIETY, 4 CREDITS

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

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

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

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

Prerequisites: 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	334249 MW		10-11:20 AM		
	TBA	\$504.00	\$52.00	\$20.00	\$576.00	
OC HYB LCT	MTH-105Z-02	334253 T		10-11:50 AM		
	E. MEUSER	\$504.00	\$52.00	\$20.00	\$576.00	
OC HYB LCT	MTH-105Z-03	334254 W		1-2:50 PM		
	M. YANNOTTA	\$504.00	\$52.00	\$20.00	\$576.00	
OC HYB LCT	MTH-105Z-04	337596 TTH		1-2:20 PM		
	T. BIEBER	\$504.00	\$52.00	\$20.00	\$576.00	
ONL LCT	MTH-105Z-10	334256				
	C. KYSER	\$504.00	\$52.00	\$20.00	\$576.00	
ONL LCT	MTH-105Z-11	334257				
	M. YANNOTTA	\$504.00	\$52.00	\$20.00	\$576.00	
HAR HYB LCT	MTH-105Z-15	337598 TTH		6-7:20 PM		
	K. MERCER	\$504.00	\$52.00	\$20.00	\$576.00	

MTH-111Z PRECALCULUS I: FUNCTIONS, 4 CREDITS

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

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

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

OC LCT	MTH-111Z-01	334258 MW		3-4:50 PM		
	K. PHILLIPS	\$504.00	\$52.00	\$20.00	\$576.00	
OC LCT	MTH-111Z-02	334261 TTH		8-9:50 AM		
	M. PRICE	\$504.00	\$52.00	\$20.00	\$576.00	
OC LCT	MTH-111Z-03	334262 MW		1-2:50 PM		
	M. PRICE	\$504.00	\$52.00	\$20.00	\$576.00	
OC LCT	MTH-111Z-04	334264 MW		10-11:50 AM		
	S. PRUYN	\$504.00	\$52.00	\$20.00	\$576.00	
OC LCT	MTH-111Z-05	334266 TTH		1-2:50 PM		
	K. AMREIN	\$504.00	\$52.00	\$20.00	\$576.00	
OC HYB LCT	MTH-111Z-10	334268 TBA				
	TBA	\$504.00	\$52.00	\$20.00	\$576.00	
	Meets for in-person testing dates only; the section is otherwise asynchronous.					
HAR HYB LCT	MTH-111Z-15	334272 TTH		6-7:50 PM		
	S. PRUYN	\$504.00	\$52.00	\$20.00	\$576.00	

MTH-112Z PRECALCULUS II: TRIGONOMETRY, 4 CREDITS

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

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

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

OC LCT	MTH-112Z-01	334273 MW		10-11:50 AM		
	F. CARTER	\$504.00	\$52.00	\$20.00	\$576.00	
OC LCT	MTH-112Z-02	337599 TTH		1-2:50 PM		
	F. CARTER	\$504.00	\$52.00	\$20.00	\$576.00	

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
OC HYB LCT	MTH-112Z-10 334279 TBA		M. HAUGEN			\$504.00	\$52.00	\$20.00		\$576.00
	Meets for in-person testing dates only; the section is otherwise asynchronous.									
HAR LCT	MTH-112Z-15 334281 MW		TBA		6-7:50 PM	\$504.00	\$52.00	\$20.00		\$576.00

MTH-211 FUNDAMENTALS OF ELEMENTARY MATH I, 4 CREDITS

A course designed to teach students to understand the basic concepts of mathematics and provide ideas for teaching these concepts to elementary school children. Focuses on math anxiety and mindset, problem-solving, and arithmetic. MTH-211, MTH-212, and MTH-213 can be taken in any order.

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-211-01 334282 MW		M. PRICE		10-11:50 AM	\$504.00	\$52.00	\$20.00		\$576.00
--------	-----------------------------	--	----------	--	-------------	----------	---------	---------	--	----------

MTH-213 FUNDAMENTALS OF ELEMENTARY MATH III, 4 CREDITS

A course designed to teach students to understand the basic concepts of mathematics and provide ideas for teaching these concepts to elementary school children. Focuses on geometry. MTH-211, MTH-212, and MTH-213 can be taken in any order.

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

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

REM LCT	MTH-213-15 334285 TTH		A. BRANDENBURG		6-7:50 PM	\$504.00	\$52.00	\$20.00		\$576.00
---------	------------------------------	--	----------------	--	-----------	----------	---------	---------	--	----------

MTH-244 STATISTICS II, 4 CREDITS

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

Prerequisites: STAT-243Z with a C or better

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

OC HYB LCT	MTH-244-01 334287 MW		A. BRANDENBURG		1-2:20 PM	\$504.00	\$52.00	\$20.00		\$576.00
------------	-----------------------------	--	----------------	--	-----------	----------	---------	---------	--	----------

MTH-251 CALCULUS I, 5 CREDITS

For science, engineering, and mathematics students, this is the first course in the four-term Calculus sequence. Focuses on the analysis of functions using limits and differential calculus. Emphasis on applying calculus concepts and techniques to model and solve appropriate real-world applications.

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

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

OC HYB LCT	MTH-251-01 334289 TTH		M. PARTNOF		10-11:50 AM	\$630.00	\$65.00	\$20.00		\$715.00
OC HYB LCT	MTH-251-02 334293 MW		B. HSIAO		1-2:50 PM	\$630.00	\$65.00	\$20.00		\$715.00
OC HYB LCT	MTH-251-10 334294 TBA		B. HSIAO			\$630.00	\$65.00	\$20.00		\$715.00
	Meets for 3 in-person testing dates only; the section is otherwise asynchronous.									

MTH-252 CALCULUS II, 5 CREDITS

For science, engineering, and mathematics students, this is the second course in the four-term Calculus sequence. Focuses on understanding integral calculus and using anti-differentiation techniques. Emphasis on applying the calculus to model and solve appropriate real-world applications.

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
Prerequisites: MTH-251 with a C or better										
Recommended Prerequisites: WRD-098 or placement in WR-121Z										
OC HYB LCT	MTH-252-01 334296 MW		M. PARTNOF		10-11:50 AM	\$630.00	\$65.00	\$20.00		\$715.00
OC HYB LCT	MTH-252-02 334300 TTH		M. PARTNOF		1-2:50 PM	\$630.00	\$65.00	\$20.00		\$715.00

MTH-253 CALCULUS III, 5 CREDITS

Investigates indeterminate forms, improper integrals, convergence of sequences and series, power series, Taylor series and Taylor polynomials, error analysis of numerical estimates, complex numbers and the Euler formula, parametric equations, vectors, dot products, and the geometry of lines and planes in space.

Prerequisites: MTH-252 with a C or better

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

OC HYB LCT	MTH-253-01 334301 T		C. KYSER		1-3:50 PM	\$630.00	\$65.00	\$20.00		\$715.00
------------	----------------------------	--	----------	--	-----------	----------	---------	---------	--	----------

MTH-254 VECTOR CALCULUS, 5 CREDITS

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

Prerequisites: MTH-252 with a C or better

OC HYB LCT	MTH-254-01 334304 MW		A. HALL		10-11:50 AM	\$630.00	\$65.00	\$20.00		\$715.00
------------	-----------------------------	--	---------	--	-------------	----------	---------	---------	--	----------

MTH-261 LINEAR ALGEBRA, 4 CREDITS

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

Prerequisites: MTH-252 with a C or better

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

OC LCT	MTH-261-01 334306 MW		F. CARTER		1-2:50 PM	\$504.00	\$52.00	\$20.00		\$576.00
--------	-----------------------------	--	-----------	--	-----------	----------	---------	---------	--	----------

Medical Assistant

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

MA-150 MEDICAL OFFICE PRACTICES, 4 CREDITS

Focuses on administrative skills performed by the Medical Assistant in the ambulatory care setting. The course examines medical law and ethics, bioethics, communication, principles of confidentiality, critical thinking, diversity, and medical office function.

Prerequisites: BI-120, or BI-101 & BI-102, or BI-231 & BI-232 & BI-233

Prerequisites: HP-110. MTH-050 or MTH-065. WR-101 or WR-121Z

Corequisites: MA-152, MA-152L, MA-154, and MA-158

Required: Student must be enrolled in current Medical Assistant cohort

Recommended Prerequisites: MA-100 and PSY-101

HAR HYB	MA-150-01 333199 TH		S. DAVENPORT		1-2:50 PM	\$504.00	\$52.00	\$152.00		\$708.00
	Required: Student Petition.									

MA-152 EXAMINATION ROOM TECHNIQUES I, 3 CREDITS

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

Distance Education Notification:
ONL: Online Only
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

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

This course is designed to introduce students to the fundamental skills required for medical assisting in an exam room setting. The course will focus on the basic skills needed for patient interactions, documentation, and vital signs.

Prerequisites: BI-120, or BI-101 & BI-102, or BI-231 & BI-232 & BI-233

Prerequisites: HP-110. MTH-050 or MTH-065. WR-101 or WR-121Z

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

Required: Student must be enrolled in current Medical Assistant cohort

Recommended Prerequisites: MA-100 and PSY-101

ONL	MA-152-01	333200				
	S. PARKER		\$378.00	\$39.00	\$0.00	\$417.00

MA-152L EXAMINATION ROOM TECHNIQUES I LAB, 1 CREDIT

This lab is designed to apply the hands-on skills that were introduced to students in the lecture class. This lab will cover hands-on skills required for medical assisting in an exam room setting. The lab will focus on the basic skills needed for patient interactions, documentation, and vital signs.

Prerequisites: BI-120, or BI-101 & BI-102, or BI-231 & BI-232 & BI-233

Prerequisites: HP-110. MTH-050 or MTH-065. WR-101 or WR-121Z

Corequisites: MA-150, MA-152, MA-154, and MA-158

Required: Student must be enrolled in current Medical Assistant cohort

Recommended Prerequisites: MA-100 and PSY-101

HAR	MA-152L-01	333201 T			9-11:50 AM	
	S. DAVENPORT		\$126.00	\$13.00	\$0.00	\$139.00
	S. PARKER					
HAR	MA-152L-02	333202 TH			9-11:50 AM	
	S. DAVENPORT		\$126.00	\$13.00	\$0.00	\$139.00
	S. PARKER					

MA-154 BODY SYSTEMS AND PHARMACOLOGY, 4 CREDITS

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

Prerequisites: BI-120, or BI-101 & BI-102, or BI-231 & BI-232 & BI-233

Prerequisites: HP-110. MTH-050 or MTH-065. WR-101 or WR-121Z

Corequisites: MA-150, MA-152, MA-152L, and MA-158

Required: Student must be enrolled in current Medical Assistant cohort

Recommended Prerequisites: MA-100 and PSY-101

HAR HYB	MA-154-01	333203 T			1-2:50 PM	
	S. DAVENPORT		\$504.00	\$52.00	\$40.00	\$596.00

MA-158 SEMINAR I, 2 CREDITS

This course introduces professionalism in the healthcare setting and explores clinical placement opportunities. Students will demonstrate compliance with Oregon Health Authorities rules for students in clinical training and obtain volunteer experience with a community partner.

Prerequisites: BI-120, or BI-101 & BI-102, or BI-231 & BI-232 & BI-233

Prerequisites: HP-110. MTH-050 or MTH-065. WR-101 or WR-121Z

Corequisites: MA-150, MA-152, MA-152L, and MA-154

Required: Student must be enrolled in current Medical Assistant cohort

Recommended Prerequisites: MA-100 and PSY-101

HAR	MA-158-01	333204 W			9-10:50 AM	
	S. PARKER		\$252.00	\$26.00	\$0.00	\$278.00

Music

MUP-102 WIND ENSEMBLE, 2 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

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

For non-majors and music majors. Introduction and study of traditional and contemporary band literature. This course is taken each term in one's first year of a two-year course of study that includes performance, study of common styles and practices of historically and culturally significant composers/arrangers, and study of historical issues related to the development and performance of band literature. Provides a thorough groundwork in the fundamental ideas, techniques, and practices of band music and ensemble performance. No audition required. May be repeated for up to 6 credits.

Required: Completion of high school or high school performance level. Ability to read music and play a band instrument

OC LCT	MUP-102-01	333218 TTH			3-4:50 PM	
	L. CAMPBELL		\$252.00	\$26.00	\$0.00	\$278.00

MUP-104 PEP BAND/COMBO-IMPROV, 1 CREDIT

Instrumental performing group concentrating on rock, pop, and contemporary styles in the small to medium-sized group setting. No audition required. May be repeated for up to 8 credits.

Recommended Prerequisites: MUP-105 or MUP-125

OC LCT	MUP-104-01	333219 M			12-12:50 PM	
	C. DOGGETT		\$126.00	\$13.00	\$0.00	\$139.00

MUP-105 JAZZ ENSEMBLE, 2 CREDITS

For non-majors and music majors. Introduction and study of common 'big-band' and small-group jazz styles. This course is taken each term in one's first year of a two-year course of study that includes performance, improvisation, musical arranging and writing, study of common styles and practices of historically and culturally significant jazz artists, and study of historical issues related to the development and performance of jazz music. May be repeated for up to 6 credits.

Recommended Prerequisites: MUP-102

OC LCT	MUP-105-01	333220 MW			3-4:50 PM	
	L. CAMPBELL		\$252.00	\$26.00	\$0.00	\$278.00

MUP-122 VOCAL ENSEMBLE, 2 CREDITS

An introductory performance ensemble open to all students wishing to sing in a choral ensemble. Designed for non-majors and majors who need preparation for MUP-125.

Recommended: A desire to sing in a large and fun ensemble. An interest in exploring the roots of American music

OC LCT	MUP-122-01	333222 TTH			3-4:50 PM	
	K. HOLLINGSWORTH		\$252.00	\$26.00	\$52.00	\$330.00
	Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					

MUP-125 ADVANCED VOCAL ENSEMBLE, 2 CREDITS

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

OC LCT	MUP-125-01	333223 MW			3-4:50 PM	
	K. HOLLINGSWORTH		\$252.00	\$26.00	\$52.00	\$330.00
	Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					

MUP-141 COLLEGE ORCHESTRA, 1 CREDIT

Course No	Course Title, Credits		Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
	Instructor									
Performance and study of orchestral literature. College students may earn credit for playing in one of several approved orchestral groups. Minimum of one performance per term. May be repeated for up to 8 credits. Required: Student Petition.										
OC LCT	MUP-141-01	333224	TBA							
	L. CAMPBELL	\$126.00	\$13.00	\$0.00		\$139.00				
Required: Student Petition.										
MUP-150 CONTEMPORARY MUSIC ENSEMBLE, 2 CREDITS										
Studies the development and performance of original compositions through intensive musical collaboration and creation. May be repeated for up to 12 credits.										
Required: Pass proficiency audition										
OC LCT	MUP-150-01	333227	MW					1-2:50 PM		
	K. DEITZ	\$252.00	\$26.00	\$50.00		\$328.00				
	K. HOLLINGSWORTH									
Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.										
MUP-158 CHAMBER ENSEMBLE, 1 CREDIT										
Rehearsal and performance of traditional vocal and instrumental chamber music (one musician per part). Includes concerts and coaching by area professionals. Highly recommended for music majors. May be repeated for up to 8 credits. First of a two-part series.										
OC LCT	MUP-158-01	333228	TH					1-2:50 PM		
	D. TUTMARK	\$126.00	\$13.00	\$85.00		\$224.00				
	Guitar Ensemble.									
OC LCT	MUP-158-02	333230	T					9-10:50 AM		
	G. HARRIS	\$126.00	\$13.00	\$85.00		\$224.00				
	Saxophone Quartet.									
OC LCT	MUP-158-03	337723	TBA							
	TBA	\$126.00	\$13.00	\$85.00		\$224.00				
	Brass Quintet.									
OC LCT	MUP-158-04	337724	TBA							
	TBA	\$126.00	\$13.00	\$85.00		\$224.00				
	Woodwind Quartet.									
MUP-202 WIND ENSEMBLE, 2 CREDITS										
For non-majors and music majors. Introduction and study of traditional and contemporary band literature. This is the second year of a two-year course of study that includes performance, study of common styles and practices of historically and culturally significant composers/arrangers, and study of historical issues related to the development and performance of band literature. Provides a thorough groundwork in the fundamental ideas, techniques, and practices of band music and ensemble performance. No audition required. May be repeated for up to 6 credits.										
Required: Completion of high school or high school performance level. Ability to read music and play a band instrument										
Prerequisites: MUP-102 (6 credits)										
OC LCT	MUP-202-01	333290	TTH					3-4:50 PM		
	L. CAMPBELL	\$252.00	\$26.00	\$0.00		\$278.00				
MUP-204 PEP BAND/COMBO-IMPROV, 1 CREDIT										
Instrumental performing group concentrating on rock, pop, and contemporary styles in the small to medium-sized group setting. No audition required. May be repeated for up to 8 credits.										
Prerequisites: MUP-104 (3 credits)										
Recommended Prerequisites: MUP-105 or MUP-125										
OC LCT	MUP-204-01	333291	M					12-12:50 PM		
	C. DOGGETT	\$126.00	\$13.00	\$0.00		\$139.00				
Required: 1 hour a week TBA.										
MUP-205 JAZZ ENSEMBLE, 2 CREDITS										
For non-majors and music majors. Introduction and study of common big-band and small-group jazz styles. This is the second year of a two-year course of study that includes performance, improvisation, musical arranging and writing, study of common styles and practices of historically and culturally significant jazz artists, and study of historical issues related to the development and performance of jazz music. May be repeated for up to 6 credits.										
Prerequisites: MUP-105 (6 credits)										
OC LCT	MUP-205-01	333295	MW					3-4:50 PM		
	L. CAMPBELL	\$252.00	\$26.00	\$0.00		\$278.00				
MUP-222 CHAMBER CHOIR, 2 CREDITS										
Advanced vocal ensemble which rehearses and performs choral music from the Renaissance to the 21st century. Provides preparation for entering professional fields of music and performance. Emphasis on a cappella singing applied to appropriate chamber music. Recommended for vocal music majors. Enrollment by audition. May be repeated for up to 6 credits.										
Prerequisites: MUP-122 (6 credits)										
OC LCT	MUP-222-01	333296	TTH					3-4:50 PM		
	K. HOLLINGSWORTH	\$252.00	\$26.00	\$52.00		\$330.00				
Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.										
MUP-225 VOCAL JAZZ ENSEMBLE: MAINSTREAM, 2 CREDITS										
Advanced performing ensemble that cultivates musical, professional, and personal growth through rehearsal and performance with rhythm section of jazz, rock, pop, funk, and fusion. Includes study of jazz as it applies to vocal ensemble combined with rhythm section. Emphasis on style, improvisation, and techniques. Enrollment by audition. May be repeated for up to 6 credits.										
Prerequisites: MUP-125 (6 credits)										
OC LCT	MUP-225-01	333298	MW					3-4:50 PM		
	K. HOLLINGSWORTH	\$252.00	\$26.00	\$52.00		\$330.00				
Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.										
MUP-241 COLLEGE ORCHESTRA, 1 CREDIT										
Performance and study of orchestral literature. College students may earn credit for playing in one of several approved orchestral groups. Minimum of one performance per term. May be repeated for up to 8 credits. Required: Student Petition.										
OC LCT	MUP-241-01	333301	TBA							
	L. CAMPBELL	\$126.00	\$13.00	\$0.00		\$139.00				
Required: Student Petition.										
MUS-101 MUSIC FUNDAMENTALS, 3 CREDITS										
Introduction to fundamentals of reading and writing music. Designed for non-majors or majors needing substantial preparation for MUS-111.										
ONL	MUS-101-01	333389								
	J. HEDBERG	\$378.00	\$39.00	\$10.00		\$427.00				

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

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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course No	Course Title, Credits						Course No	Course Title, Credits					
Section No Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total	Section No Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time Crs. Fee	Total
MUS-102 MUSIC FUNDAMENTALS, 3 CREDITS													
Continues an introduction to fundamentals of reading and writing music. Designed for non-majors or majors needing substantial preparation for Music Theory I.													
Prerequisites: MUS-101													
OC LCT	MUS-102-01	337722 TTH			10-11:20 AM								
	K. HOLLINGSWORTH		\$378.00	\$39.00	\$10.00	\$427.00							
MUS-105 MUSIC APPRECIATION, 3 CREDITS													
For non-majors and music majors. Emphasis on engaging in the study of instrumental and vocal musical genres from the ancient period through the contemporary music of our time. Includes critical analysis, study of elements, forms, styles, composers, performers, cultural, and historical issues and events.													
Recommended Prerequisites: WRD-098 or placement in WR-121Z													
ONL	MUS-105-01	333391											
	J. HEDBERG		\$378.00	\$39.00	\$0.00	\$417.00							
MUS-106 AUDIO RECORDING AT HOME, 1 CREDIT													
An overview of the basic tools and techniques used in audio recording at home. Depending on participant needs, topics may include signal path, microphone applications, software, hardware, outboard gear, soldering techniques, tracking, mixing, and editing.													
OC LCT	MUS-106-01	333394 F			6:30 -8:50 PM								
	B. ROSE	S	\$126.00	\$13.00	9-5:50 PM	\$238.00							
	Meets: 10/25 & 10/26.												
MUS-107 INTRODUCTION TO AUDIO RECORDING I, 3 CREDITS													
Introduction to the basic techniques and tools used in audio recording. Areas of study include signal path, microphone applications, software, hardware, outboard gear, tracking, mixing, and editing.													
OC	MUS-107-01	333398 M			6:30 -9:20 PM								
	D. BADSTUBNER		\$378.00	\$39.00	\$99.00	\$516.00							
OC	MUS-107-02	333403 M			1-3:50 PM								
	D. BADSTUBNER		\$378.00	\$39.00	\$99.00	\$516.00							
MUS-108 INTRODUCTION TO AUDIO RECORDING II, 3 CREDITS													
Exploration of techniques and tools used in audio recording. Analog, digital, and hard drive recording will be explored. Areas of study include multi-tracking, signal path, microphone applications, software, hardware, outboard gear, soldering techniques, tracking, mixing, and editing. Software/hardware includes ProTools, ADAT, Mackie, etc.													
Prerequisites: MUS-107													
OC	MUS-108-01	333405 T			6:30 -9:20 PM								
	D. BADSTUBNER		\$378.00	\$39.00	\$99.00	\$516.00							
MUS-109 INTRODUCTION TO AUDIO RECORDING III, 3 CREDITS													
Exploration of digital recording/editing software and production of CD project. Advanced exploration of techniques and tools used in audio recording. Areas of study include signal path, microphone applications, software, hardware, outboard gear, tracking, mixing, and editing. Analog, digital, and hard drive recording will be explored. Software/hardware includes ProTools, ADAT, Mackie, etc.													
Prerequisites: MUS-108													
OC	MUS-109-01	333413 T			6:30 -9:20 PM								
	D. BADSTUBNER		\$378.00	\$39.00	\$99.00	\$516.00							
MUS-111 MUSIC THEORY I, 3 CREDITS													
For non-majors and music majors. Presents an introduction to the diatonic and chromatic structure of tonal music from the common practice period through written exercises, listening, and analysis. This is the first term of a three-term sequence, which includes concepts of pitch and rhythm, intervals, keys, scales, triads, dominant seventh chord, and standard cadences. Provides a thorough groundwork in the melodic, harmonic, and rhythmic elements of music.													
Corequisites: First year music majors must take MUS-111 concurrently with MUS-111L, MUS-114, and MUS-127. This requirement does not affect non-music majors													
Recommended Prerequisites: MTH-095 or placement in MTH-111Z; WRD-098 or placement in WR-121Z													
OC	MUS-111-01	333418 TTH			10-11:20 AM								
	R. OLASON		\$378.00	\$39.00	\$0.00	\$417.00							
MUS-111L MUSIC NOTATION SOFTWARE I, 1 CREDIT													
Introduces students to Finale (music notation software) on Macintosh computers.													
Required: Required for first-year music majors													
OC	MUS-111L-01	333420 M			10-11:50 AM								
	D. FLESCHNER		\$126.00	\$13.00	\$44.00	\$183.00							
MUS-114 AURAL SKILLS I, 2 CREDITS													
First course in a year-long sequence. Diatonic sight singing in major keys using solfège syllables and moveable 'do'. Melodic dictation and aural recognition of intervals and triads.													
Corequisites: MUS-111													
Required: Required for first-year music majors													
OC	MUS-114-01	333424 TTH			1-1:50 PM								
	R. OLASON		\$252.00	\$26.00	\$0.00	\$278.00							
MUS-127 KEYBOARD SKILLS I, 2 CREDITS													
Develops basic keyboard skills required for study of tonal harmony and various musical activities such as vocal and instrumental rehearsals, music education and composition.													
Corequisites: MUS-111, MUS-111L, MUS-114													
Required: Required for music majors													
Recommended: Some experience in reading treble and bass clef, or MUS-131, MUS-132, or MUS-133 with a C or better													
OC	MUS-127-01	333427 TTH			2-2:50 PM								
	R. OLASON		\$252.00	\$26.00	\$10.00	\$288.00							
MUS-131 GROUP PIANO: PIANO FOR PLEASURE, 1 CREDIT													
First of three courses in a year-long sequence. Beginning classroom piano instruction for non-music majors. Includes reading, theory, technical exercises, and the opportunity to share your music with others. Beginning to intermediate level.													
OC	MUS-131-01	333429 TTH			9-9:50 AM								
	TBA		\$126.00	\$13.00	\$85.00	\$224.00							
MUS-134 GROUP VOICE: ANYONE CAN SING, 1 CREDIT													
Basic vocal techniques for the solo and ensemble singer. For music and non-music majors, voice and music education majors, and/or students who received a low rating on MUP-174 audition.													
OC	MUS-134-01	333431 T			1-2:50 PM								
	B. MICHAEL		\$126.00	\$13.00	\$85.00	\$224.00							
MUS-137 GROUP GUITAR I, 1 CREDIT													

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

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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course Listing

2024/FA

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
OC LCT	MUS-137-01 333433 TTH D. TUTMARK					\$126.00	\$13.00	11-11:50 AM	\$85.00	\$224.00
MUS-141 INTRODUCTION TO THE MUSIC BUSINESS, 3 CREDITS Explores business basics, songwriting, demos, agents, managers, copyrights, gig and concert promotion, publishing, licensing, and music business structures.										
ONL LCT	MUS-141-01 333436 D. FLESCHNER					\$378.00	\$39.00		\$0.00	\$417.00
MUS-142 INTRODUCTION TO ELECTRONIC MUSIC I: MIDI, 3 CREDITS Introduction to synthesis, MIDI sequencing, basic musical elements, and the basics of production. Learn how to make beats, songs, etc. Uses common production software/hardware.										
OC	MUS-142-01 333438 T D. BADSTUBNER					\$378.00	\$39.00	1-3:50 PM	\$99.00	\$516.00
MUS-143 INTRODUCTION TO ELECTRONIC MUSIC II: SEQUENCING, AUDIO LOOPING, SOUND EFX, 3 CREDITS An introduction to digital audio in the MIDI environment. This course continues MIDI sequencing, and integrates audio into the MIDI environment with audio looping, and spotting sound effects. Uses common production software/hardware. Prerequisites: MUS-142										
OC LCT	MUS-143-01 333440 TH A. HAAK					\$378.00	\$39.00	1-3:50 PM	\$99.00	\$516.00
MUS-144 INTRODUCTION TO ELECTRONIC MUSIC III: DIGITAL AUDIO, 3 CREDITS Exploration of digital music recording and editing, synthesis, sampling, and sequencing. Presents CD/audio file production techniques integrating digital audio with the MIDI sequence. Uses Pro Tools, and other common production software/hardware. Prerequisites: MUS-143										
OC	MUS-144-01 333442 TH A. HAAK					\$378.00	\$39.00	1-3:50 PM	\$99.00	\$516.00
MUS-147 MUSIC, SOUND & MOVIE MAKING, 1 CREDIT Presents the basic components of designing, shooting, recording audio, and post production of movies as well as the history and theory that has led to contemporary film production.										
OC LCT	MUS-147-01 333153 F S B. ROSE Meets: 10/18 & 10/19.					\$126.00	\$13.00	6:30 -8:50 PM 9-5:50 PM	\$99.00	\$238.00
MUS-148 LIVE SOUND ENGINEERING, 3 CREDITS Introduction to the basic techniques and tools used in live sound engineering and mixing. Areas of study include set up, signal path, microphone applications, hardware, and outboard gear.										
OC LCT	MUS-148-01 333445 W D. BADSTUBNER					\$378.00	\$39.00	6:30 -9:20 PM	\$99.00	\$516.00
MUS-189 PERFORMANCE & REPERTOIRE, 1 CREDIT										
Course No Course Title, Credits										
OC LCT	MUS-189-01 333447 W J. ISRAELS B. MICHAEL					\$126.00	\$13.00	11-11:50 AM	\$0.00	\$139.00
OC LCT	MUS-189-02 337572 W J. ISRAELS B. MICHAEL					\$126.00	\$13.00	12-12:50 PM	\$0.00	\$139.00
MUS-205 MUSIC LITERATURE: HISTORY OF JAZZ, 4 CREDITS For non-majors and music majors. Emphasis on engaging in the study of Jazz music and surrounding cultural/historical issues. Includes critical analysis, study of elements, forms, styles, composers, performers, cultural, and historical issues and events. Recommended Prerequisites: WRD-098 or placement in WR-121Z										
ONL	MUS-205-01 333450 R. INOUE					\$504.00	\$52.00		\$0.00	\$556.00
MUS-206 MUSIC LITERATURE: HISTORY OF ROCK, 4 CREDITS For non-majors and music majors. Emphasis on engaging in the study of Rock music and surrounding cultural/historical issues. Includes critical analysis, study of elements, forms, styles, composers, performers, cultural, and historical issues and events. An examination of Rock music as a contemporary social medium. Recommended Prerequisites: WRD-098 or placement in WR-121Z										
OC LCT	MUS-206-01 333451 MW K. DEITZ Required: Attendance at three concert field trips TBA.					\$504.00	\$52.00	10-11:50 AM	\$0.00	\$556.00
ONL	MUS-206-02 333452 J. HEDBERG					\$504.00	\$52.00		\$0.00	\$556.00
MUS-211 MUSIC THEORY II, 3 CREDITS For non-majors and music majors. Continuation of the study of functional harmony through written exercises, compositions, listening, and analysis and introduction to polyphony. This is the first term of a three-term sequence, which includes late Renaissance polyphony, baroque counterpoint, and chromatic harmony. Prerequisites: MUS-113 Corequisites: MUS-214 and MUS-224										
OC	MUS-211-01 333453 MW R. OLASON					\$378.00	\$39.00	10-11:20 AM	\$269.00	\$686.00
MUS-214 KEYBOARD SKILLS II, 2 CREDITS Advanced keyboard applications of the materials of diatonic and chromatic music. Prerequisites: MUS-129 Corequisites: MUS-211 Required: Required for second-year music majors										
OC	MUS-214-01 333454 MW R. OLASON					\$252.00	\$26.00	2-2:50 PM	\$85.00	\$363.00
MUS-218 MPT SEMINAR I, 1 CREDIT										

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

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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

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

First of a three-part series. For second year MPT students only. Seminar will cover writing, arranging, production, performance and music theory through experiential learning. Students will produce, write and arrange for each CWE/Songwriters concert and will produce the Annual MPT festival each spring.

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

Required: Must be a 2nd year MPT student in good standing

oc	MUS-218-01	333455 M			12-12:50 PM	
	K. HOLLINGSWORTH	\$126.00	\$13.00	\$0.00		\$139.00

MUS-224 AURAL SKILLS II, 2 CREDITS

First of three courses in a year-long sequence. Diatonic and chromatic sight singing with solfège syllables and moveable 'do'. Four-part dictation including all chromatic devices studied in Theory II.

Prerequisites: MUS-116

Corequisites: MUS-211

Required: Required for second-year music majors

oc	MUS-224-01	333456 MW			1-1:50 PM	
	R. OLASON	\$252.00	\$26.00	\$85.00		\$363.00

MUS-247 SOUND FOR MEDIA, 3 CREDITS

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

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

OC LCT	MUS-247-01	333154 W			3-5:50 PM	
	B. ROSE	\$378.00	\$39.00	\$0.00		\$417.00

MUS-280 MUSIC/CWE, 2-6 CREDITS

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

Corequisites: CWE-281

Prerequisites: MUS-107, MUS-140, and MUS-142

ONL	MUS-280-01	333457				
	C. DOGGETT	\$756.00	\$78.00	\$144.00		\$978.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					
ONL	MUS-280-02	333459				
	G. HARRIS	\$756.00	\$78.00	\$144.00		\$978.00V
	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	333485 M			6:30 -9:20 PM	
	L. CLINE	\$0.00	\$0.00	\$0.00		\$0.00

Music: Individual Lessons - Non-Music Majors

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

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

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-171-191 auditions. Brass, woodwind, percussion, string and keyboard instruments, and voice. May be repeated for up to 6 credits. Required: Student Petition.

OC LCT	MUP-100-01	333206 TBA				
	TBA	\$126.00	\$13.00	\$225.00		\$364.00
	Required: Student Petition. Jazz Piano Lessons.					
OC LCT	MUP-100-02	333207 TBA				
	Y. MIYAMA	\$126.00	\$13.00	\$225.00		\$364.00
	Required: Student Petition. Piano Lessons.					
OC LCT	MUP-100-03	333208 TBA				
	D. FLESCNER	\$126.00	\$13.00	\$225.00		\$364.00
	Required: Student Petition. Rock, Blues, and Pop Piano Lessons.					
OC LCT	MUP-100-04	333209 TBA				
	J. ISRAELS	\$126.00	\$13.00	\$225.00		\$364.00
	Required: Student Petition. Voice Lessons. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					
OC LCT	MUP-100-05	333210 TBA				
	B. MICHAEL	\$126.00	\$13.00	\$225.00		\$364.00
	Required: Student Petition. Voice Lessons. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					
OC LCT	MUP-100-06	333211 TBA				
	C. AVERILL	\$126.00	\$13.00	\$225.00		\$364.00
	Required: Student Petition. Cello Lessons.					
OC LCT	MUP-100-07	333212 TBA				
	K. DEITZ	\$126.00	\$13.00	\$225.00		\$364.00
	Required: Student Petition. Bass Lessons.					
OC LCT	MUP-100-08	333213 TBA				
	D. TUTMARK	\$126.00	\$13.00	\$225.00		\$364.00
	Required: Student Petition. Guitar Lessons.					
OC LCT	MUP-100-09	333214 TBA				
	C. WOITACH	\$126.00	\$13.00	\$225.00		\$364.00
	Required: Student Petition. Jazz Guitar Lessons.					
OC LCT	MUP-100-10	333215 TBA				
	G. HARRIS	\$126.00	\$13.00	\$225.00		\$364.00
	Required: Student Petition. Saxophone Lessons.					
OC LCT	MUP-100-11	333216 TBA				
	J. KLAUSE	\$126.00	\$13.00	\$225.00		\$364.00
	Required: Student Petition. Trumpet Lessons.					
OC LCT	MUP-100-12	333217 TBA				
	C. DOGGETT	\$126.00	\$13.00	\$225.00		\$364.00
	Required: Student Petition. Percussion & Drum Set Lessons.					

Music: Individual Lessons - Year 1

College-level private lessons required for music majors and available to qualified non-majors. End-of-term juried performance mandatory. May be repeated for up to 10 credits. Required: Student Petition.

MUP-171 INDIVIDUAL LESSONS: PIANO, 2 CREDITS

Required: College-level performance ability

Corequisites: MUS-189

Course Listing

2024/FA

Course No	Course Title, Credits					Course No	Course Title, Credits				
	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total		Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
Instructor	Tuition	Fee	Crs. Fee			Instructor	Tuition	Fee	Crs. Fee		
OC LCT	MUP-171-01 333232 TBA					Required: College-level performance ability					
	Y. MIYAMA	\$252.00	\$26.00	\$450.00	\$728.00	OC LCT	MUP-174R-01 337705 TBA				
	Required: Student Petition.						J. ISRAELS	\$252.00	\$26.00	\$450.00	\$728.00
							Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.				
						OC LCT	MUP-174R-02 337706 TBA				
	MUP-171J INDIVIDUAL LESSONS: JAZZ PIANO, 2 CREDITS						B. MICHAEL	\$252.00	\$26.00	\$450.00	\$728.00
	Required: College-level performance ability						Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.				
OC LCT	MUP-171J-01 333234 TBA										
	TBA	\$252.00	\$26.00	\$450.00	\$728.00						
	Required: Student Petition.										
	MUP-171R INDIVIDUAL LESSONS: ROCK, BLUES, POP PIANO, 2 CREDITS										
	Required: College-level performance ability										
OC LCT	MUP-171R-01 333237 TBA										
	D. FLESCHNER	\$252.00	\$26.00	\$450.00	\$728.00						
	Required: Student Petition.										
	MUP-172 INDIVIDUAL LESSONS: ORGAN, 2 CREDITS										
	Required: College-level performance ability										
	Corequisites: MUS-189										
OC LCT	MUP-172-01 333240 TBA										
	J. HOLLAND	\$252.00	\$26.00	\$450.00	\$728.00						
	Required: Student Petition.										
	MUP-174 INDIVIDUAL LESSONS: VOICE, 2 CREDITS										
	Required: College-level performance ability										
	Corequisites: MUS-189										
OC LCT	MUP-174-01 333243 TBA										
	J. ISRAELS	\$252.00	\$26.00	\$450.00	\$728.00						
	Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.										
OC LCT	MUP-174-02 333244 TBA										
	B. MICHAEL	\$252.00	\$26.00	\$450.00	\$728.00						
	Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.										
	MUP-174J INDIVIDUAL LESSONS: JAZZ VOICE, 2 CREDITS										
	Required: College-level performance ability										
	Corequisites: MUS-189										
OC LCT	MUP-174J-01 333246 TBA										
	J. ISRAELS	\$252.00	\$26.00	\$450.00	\$728.00						
	Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.										
OC LCT	MUP-174J-02 333248 TBA										
	B. MICHAEL	\$252.00	\$26.00	\$450.00	\$728.00						
	Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.										
	MUP-174R INDIVIDUAL LESSONS: ROCK, BLUES, POP VOICE, 2 CREDITS										

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

Course Listing

2024/FA

Course No Course Title, Credits							Course No Course Title, Credits						
Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time				Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time			
Instructor		Tuition	Fee	Crs. Fee	Total		Instructor		Tuition	Fee	Crs. Fee	Total	
Required: College-level performance ability							Required: College-level performance ability						
Corequisites: MUS-189							Corequisites: MUS-189						
OC LCT	MUP-179-01	333260	TBA				OC LCT	MUP-184-01	333273	TBA			
	TBA		\$252.00	\$26.00	\$450.00	\$728.00		G. HARRIS		\$252.00	\$26.00	\$450.00	\$728.00
	Required: Student Petition.							Required: Student Petition.					
MUP-180 INDIVIDUAL LESSONS: GUITAR, 2 CREDITS							MUP-184J INDIVIDUAL LESSONS: JAZZ SAXOPHONE, 2 CREDITS						
Required: College-level performance ability							Required: College-level performance ability						
Corequisites: MUS-189							Corequisites: MUS-189						
OC LCT	MUP-180-01	333261	TBA				OC LCT	MUP-184J-01	333275	TBA			
	D. TUTMARK		\$252.00	\$26.00	\$450.00	\$728.00		G. HARRIS		\$252.00	\$26.00	\$450.00	\$728.00
	Required: Student Petition.							Required: Student Petition.					
MUP-180J INDIVIDUAL LESSONS: JAZZ GUITAR, 2 CREDITS							MUP-185 INDIVIDUAL LESSONS: BASSOON, 2 CREDITS						
Required: College-level performance ability							Required: College-level performance ability						
Corequisites: MUS-189							Corequisites: MUS-189						
OC LCT	MUP-180J-01	333263	TBA				OC LCT	MUP-185-01	333276	TBA			
	C. WOITACH		\$252.00	\$26.00	\$450.00	\$728.00		N. BUETTI		\$252.00	\$26.00	\$450.00	\$728.00
	Required: Student Petition.							Required: Student Petition.					
MUP-180R INDIVIDUAL LESSONS: ROCK, BLUES, POP GUITAR, 2 CREDITS							MUP-186 INDIVIDUAL LESSONS: TRUMPET, 2 CREDITS						
Required: College-level performance ability							Required: College-level performance ability						
Corequisites: MUS-189							Corequisites: MUS-189						
OC LCT	MUP-180R-01	333265	TBA				OC LCT	MUP-186-01	333277	TBA			
	A. CSIKOS		\$252.00	\$26.00	\$450.00	\$728.00		J. KLAUSE		\$252.00	\$26.00	\$450.00	\$728.00
	Required: Student Petition.							Required: Student Petition.					
MUP-181 INDIVIDUAL LESSONS: FLUTE, 2 CREDITS							MUP-186J INDIVIDUAL LESSONS: JAZZ TRUMPET, 2 CREDITS						
Required: College-level performance ability							Required: College-level performance ability						
Corequisites: MUS-189							Corequisites: MUS-189						
OC LCT	MUP-181-01	333266	TBA				OC LCT	MUP-186J-01	333278	TBA			
	K. GIFFORD		\$252.00	\$26.00	\$450.00	\$728.00		P. MAZZIO		\$252.00	\$26.00	\$450.00	\$728.00
	Required: Student Petition.							Required: Student Petition.					
MUP-181J INDIVIDUAL LESSONS: JAZZ FLUTE, 2 CREDITS							MUP-187 INDIVIDUAL LESSONS: FRENCH HORN, 2 CREDITS						
Required: College-level performance ability							Required: College-level performance ability						
Corequisites: MUS-189							Corequisites: MUS-189						
OC LCT	MUP-181J-01	333267	TBA				OC LCT	MUP-187-01	333279	TBA			
	G. HARRIS		\$252.00	\$26.00	\$450.00	\$728.00		R. OLASON		\$252.00	\$26.00	\$450.00	\$728.00
	Required: Student Petition.							Required: Student Petition.					
MUP-182 INDIVIDUAL LESSONS: OBOE, 2 CREDITS							MUP-188 INDIVIDUAL LESSONS: TROMBONE, 2 CREDITS						
Required: College-level performance ability							Required: College-level performance ability						
Corequisites: MUS-189							Corequisites: MUS-189						
OC LCT	MUP-182-01	333269	TBA				OC LCT	MUP-188-01	333281	TBA			
	K. GRONLI		\$252.00	\$26.00	\$450.00	\$728.00		L. CAMPBELL		\$252.00	\$26.00	\$450.00	\$728.00
	Required: Student Petition.							Required: Student Petition.					
MUP-183 INDIVIDUAL LESSONS: CLARINET, 2 CREDITS							MUP-188-02 333282 TBA						
Required: College-level performance ability							Required: College-level performance ability						
Corequisites: MUS-189							Required: College-level performance ability						
OC LCT	MUP-183-01	333270	TBA				OC LCT	MUP-188J-01	333283	TBA			
	L. DE MARTINO		\$252.00	\$26.00	\$450.00	\$728.00		L. CAMPBELL		\$252.00	\$26.00	\$450.00	\$728.00
	Required: Student Petition.							Required: Student Petition.					
MUP-183J INDIVIDUAL LESSONS: JAZZ CLARINET, 2 CREDITS							MUP-189 INDIVIDUAL LESSONS: EUPHONIUM, 2 CREDITS						
Required: College-level performance ability							Required: College-level performance ability						
Corequisites: MUS-189							Corequisites: MUS-189						
OC LCT	MUP-183J-01	333271	TBA										
	TBA		\$252.00	\$26.00	\$450.00	\$728.00							
	Required: Student Petition.												
MUP-184 INDIVIDUAL LESSONS: SAXOPHONE, 2 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

Course Listing

2024/FA

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
OC LCT	MUP-189-01 333284 TBA G. MIDDLETON Required: Student Petition.					\$252.00	\$26.00	\$450.00		\$728.00
MUP-190 INDIVIDUAL LESSONS: TUBA, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189										
OC LCT	MUP-190-01 333286 TBA TBA Required: Student Petition.					\$252.00	\$26.00	\$450.00		\$728.00
MUP-191 INDIVIDUAL LESSONS: PERCUSSION, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189										
OC LCT	MUP-191-01 333288 TBA TBA Required: Student Petition.					\$252.00	\$26.00	\$450.00		\$728.00
MUP-191J INDIVIDUAL LESSONS: JAZZ PERCUSSION, 2 CREDITS Required: College-level performance ability										
OC LCT	MUP-191J-01 333289 TBA C. DOGGETT Required: Student Petition.					\$252.00	\$26.00	\$450.00		\$728.00
MUP-191R INDIVIDUAL LESSONS: ROCK, BLUES, POP DRUMSET, 2 CREDITS Required: College-level performance ability										
OC LCT	MUP-191R-01 337712 TBA C. DOGGETT Required: Student Petition.					\$252.00	\$26.00	\$450.00		\$728.00
MUP-192T INDIVIDUAL LESSONS: AUDIO TECH, 2 CREDITS Required: College-level performance ability										
OC LCT	MUP-192T-01 337715 TBA TBA Required: Student Petition. Electronic Music Lessons.					\$252.00	\$26.00	\$450.00		\$728.00
OC LCT	MUP-192T-02 337718 TBA D. BADSTUBNER Required: Student Petition. Audio Recording Lessons.					\$252.00	\$26.00	\$450.00		\$728.00
OC LCT	MUP-192T-03 337720 TBA TBA Required: Student Petition. Live Sound Lessons.					\$252.00	\$26.00	\$450.00		\$728.00
MUP-271 INDIVIDUAL LESSONS: PIANO, 2 CREDITS Prerequisites: MUP-171 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC LCT	MUP-271-01 333308 TBA Y. MIYAMA					\$252.00	\$26.00	\$450.00		\$728.00
MUP-271J INDIVIDUAL LESSONS: JAZZ PIANO, 2 CREDITS Prerequisites: MUP-171J (6 credits) Required: Sophomore-level performance ability										
OC LCT	MUP-271J-01 333312 TBA TBA					\$252.00	\$26.00	\$450.00		\$728.00
MUP-271R INDIVIDUAL LESSONS: ROCK, BLUES, POP PIANO, 2 CREDITS Prerequisites: MUP-171R (6 credits) Required: Sophomore-level performance ability										
OC LCT	MUP-271R-01 333313 TBA D. FLESCNER					\$252.00	\$26.00	\$450.00		\$728.00
MUP-272 INDIVIDUAL LESSONS: ORGAN, 2 CREDITS Prerequisites: MUP-172 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC LCT	MUP-272-01 333316 TBA J. HOLLAND					\$252.00	\$26.00	\$450.00		\$728.00
MUP-274 INDIVIDUAL LESSONS: VOICE, 2 CREDITS Prerequisites: MUP-174 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC LCT	MUP-274-01 333317 TBA J. ISRAELS Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					\$252.00	\$26.00	\$450.00		\$728.00
OC LCT	MUP-274-02 333319 TBA B. MICHAEL Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					\$252.00	\$26.00	\$450.00		\$728.00
MUP-274J INDIVIDUAL LESSONS: JAZZ VOICE, 2 CREDITS Prerequisites: MUP-174J (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC LCT	MUP-274J-01 333321 TBA J. ISRAELS Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					\$252.00	\$26.00	\$450.00		\$728.00
OC LCT	MUP-274J-02 333323 TBA B. MICHAEL Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					\$252.00	\$26.00	\$450.00		\$728.00
MUP-274R INDIVIDUAL LESSONS: ROCK, BLUES, POP VOICE, 2 CREDITS Prerequisites: MUP-174R (6 credits) Required: Sophomore-level performance ability										
OC LCT	MUP-274R-01 337707 TBA J. ISRAELS Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					\$252.00	\$26.00	\$450.00		\$728.00

Music: Individual Lessons - Year 2

Second-year private lessons required for music majors and available to qualified non-majors. End-of-term juried performance mandatory. May be repeated for up to 10 credits.

MUP-271 INDIVIDUAL LESSONS: PIANO, 2 CREDITS

Prerequisites: MUP-171 (6 credits)

Corequisites: MUS-189

Required: Sophomore-level performance ability

OC LCT	MUP-271-01 333308 TBA Y. MIYAMA					\$252.00	\$26.00	\$450.00		\$728.00
--------	---	--	--	--	--	----------	---------	----------	--	----------

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

Prerequisites: MUP-171J (6 credits)

Required: Sophomore-level performance ability

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

Course Listing

2024/FA

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
OC LCT	MUP-274R-02 337708 TBA B. MICHAEL Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					\$252.00	\$26.00	\$450.00		\$728.00
MUP-275 INDIVIDUAL LESSONS: VIOLIN, 2 CREDITS Prerequisites: MUP-175 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC LCT	MUP-275-01 333324 TBA TBA					\$252.00	\$26.00	\$450.00		\$728.00
MUP-276 INDIVIDUAL LESSONS: VIOLA, 2 CREDITS Prerequisites: MUP-176 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC LCT	MUP-276-01 333325 TBA H. OSEAS					\$252.00	\$26.00	\$450.00		\$728.00
MUP-277 INDIVIDUAL LESSONS: CELLO, 2 CREDITS Prerequisites: MUP-177 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC LCT	MUP-277-01 333327 TBA C. AVERILL					\$252.00	\$26.00	\$450.00		\$728.00
MUP-278 INDIVIDUAL LESSONS: BASS, 2 CREDITS Prerequisites: MUP-178 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC LCT	MUP-278-01 333330 TBA K. DEITZ					\$252.00	\$26.00	\$450.00		\$728.00
MUP-278J INDIVIDUAL LESSONS: JAZZ BASS, 2 CREDITS Prerequisites: MUP-178J (6 credits) Required: Sophomore-level performance ability										
OC LCT	MUP-278J-01 333332 TBA K. DEITZ					\$252.00	\$26.00	\$450.00		\$728.00
OC LCT	MUP-278J-02 333333 TBA T. WAKELING					\$252.00	\$26.00	\$450.00		\$728.00
MUP-278R INDIVIDUAL LESSONS: ROCK, BLUES, POP BASS, 2 CREDITS Prerequisites: MUP-178R (6 credits) Required: Sophomore-level performance ability										
OC LCT	MUP-278R-01 337710 TBA K. DEITZ					\$252.00	\$26.00	\$450.00		\$728.00
MUP-279 INDIVIDUAL LESSONS: HARP, 2 CREDITS Prerequisites: MUP-179 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC LCT	MUP-279-01 333335 TBA TBA					\$252.00	\$26.00	\$450.00		\$728.00
MUP-280 INDIVIDUAL LESSONS: GUITAR, 2 CREDITS Prerequisites: MUP-180 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC LCT	MUP-280-01 333336 TBA D. TUTMARK					\$252.00	\$26.00	\$450.00		\$728.00
MUP-280J INDIVIDUAL LESSONS: JAZZ GUITAR, 2 CREDITS Prerequisites: MUP-180J (6 credits) Required: Sophomore-level performance ability										
OC LCT	MUP-280J-01 333338 TBA C. WOITACH					\$252.00	\$26.00	\$450.00		\$728.00
OC LCT	MUP-280J-02 333340 TBA A. CSIKOS					\$252.00	\$26.00	\$450.00		\$728.00
MUP-280R INDIVIDUAL LESSONS: ROCK, BLUES, POP GUITAR, 2 CREDITS Prerequisites: MUP-180R (6 credits) Required: Sophomore-level performance ability										
OC LCT	MUP-280R-01 333341 TBA A. CSIKOS					\$252.00	\$26.00	\$450.00		\$728.00
MUP-281 INDIVIDUAL LESSONS: FLUTE, 2 CREDITS Prerequisites: MUP-181 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC LCT	MUP-281-01 333344 TBA K. GIFFORD					\$252.00	\$26.00	\$450.00		\$728.00
MUP-281J INDIVIDUAL LESSONS: JAZZ FLUTE, 2 CREDITS Prerequisites: MUP-181J (6 credits) Required: Sophomore-level performance ability										
OC LCT	MUP-281J-01 333346 TBA G. HARRIS					\$252.00	\$26.00	\$450.00		\$728.00
MUP-282 INDIVIDUAL LESSONS: OBOE, 2 CREDITS Prerequisites: MUP-182 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC LCT	MUP-282-01 333349 TBA K. GRONLI					\$252.00	\$26.00	\$450.00		\$728.00
MUP-283 INDIVIDUAL LESSONS: CLARINET, 2 CREDITS Prerequisites: MUP-183 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC LCT	MUP-283-01 333352 TBA L. DE MARTINO					\$252.00	\$26.00	\$450.00		\$728.00
MUP-283J INDIVIDUAL LESSONS: JAZZ CLARINET, 2 CREDITS Prerequisites: MUP-183J (6 credits) Required: Sophomore-level performance ability										
OC LCT	MUP-283J-01 333354 TBA TBA					\$252.00	\$26.00	\$450.00		\$728.00
MUP-284 INDIVIDUAL LESSONS: SAXOPHONE, 2 CREDITS Prerequisites: MUP-184 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC LCT	MUP-284-01 333356 TBA G. HARRIS					\$252.00	\$26.00	\$450.00		\$728.00
MUP-284J INDIVIDUAL LESSONS: JAZZ SAXOPHONE, 2 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

Course Listing

2024/FA

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
Prerequisites: MUP-184J (6 credits) Required: Sophomore-level performance ability										
OC LCT	MUP-284J-01	333359	TBA							
	G. HARRIS					\$252.00	\$26.00	\$450.00		\$728.00
MUP-285 INDIVIDUAL LESSONS: BASSOON, 2 CREDITS Prerequisites: MUP-185 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC LCT	MUP-285-01	333362	TBA							
	N. BUETTI					\$252.00	\$26.00	\$450.00		\$728.00
MUP-286 INDIVIDUAL LESSONS: TRUMPET, 2 CREDITS Prerequisites: MUP-186 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC LCT	MUP-286-01	333365	TBA							
	J. KLAUSE					\$252.00	\$26.00	\$450.00		\$728.00
MUP-286J INDIVIDUAL LESSONS: JAZZ TRUMPET, 2 CREDITS Prerequisites: MUP-186J (6 credits) Required: Sophomore-level performance ability										
OC LCT	MUP-286J-01	333366	TBA							
	P. MAZZIO					\$252.00	\$26.00	\$450.00		\$728.00
MUP-287 INDIVIDUAL LESSONS: FRENCH HORN, 2 CREDITS Prerequisites: MUP-187 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC LCT	MUP-287-01	333368	TBA							
	R. OLASON					\$252.00	\$26.00	\$450.00		\$728.00
MUP-288 INDIVIDUAL LESSONS: TROMBONE, 2 CREDITS Prerequisites: MUP-188 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC LCT	MUP-288-01	333369	TBA							
	L. CAMPBELL					\$252.00	\$26.00	\$450.00		\$728.00
MUP-288J INDIVIDUAL LESSONS: JAZZ TROMBONE, 2 CREDITS Prerequisites: MUP-188J (6 credits) Required: Sophomore-level performance ability										
OC LCT	MUP-288J-01	333371	TBA							
	L. CAMPBELL					\$252.00	\$26.00	\$450.00		\$728.00
MUP-289 INDIVIDUAL LESSONS: EUPHONIUM, 2 CREDITS Prerequisites: MUP-189 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC LCT	MUP-289-01	333374	TBA							
	G. MIDDLETON					\$252.00	\$26.00	\$450.00		\$728.00
MUP-290 INDIVIDUAL LESSONS: TUBA, 2 CREDITS Prerequisites: MUP-190 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC LCT	MUP-290-01	333376	TBA							
	TBA					\$252.00	\$26.00	\$450.00		\$728.00
MUP-291 INDIVIDUAL LESSONS: PERCUSSION, 2 CREDITS										
Prerequisites: MUP-191 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability										
OC LCT	MUP-291-01	333379	TBA							
	TBA					\$252.00	\$26.00	\$450.00		\$728.00
MUP-291J INDIVIDUAL LESSONS: JAZZ PERCUSSION, 2 CREDITS Prerequisites: MUP-191J (6 credits) Required: Sophomore-level performance ability										
OC LCT	MUP-291J-01	333382	TBA							
	C. DOGGETT					\$252.00	\$26.00	\$450.00		\$728.00
MUP-291R INDIVIDUAL LESSONS: ROCK, BLUES, POP DRUMSET, 2 CREDITS Prerequisites: MUP-191R (6 credits) Required: Sophomore-level performance ability										
OC LCT	MUP-291R-01	337713	TBA							
	C. DOGGETT					\$252.00	\$26.00	\$450.00		\$728.00
MUP-292T INDIVIDUAL LESSONS: AUDIO TECH, 2 CREDITS Prerequisites: MUP-192T (6 credits) Required: Sophomore-level performance ability										
OC LCT	MUP-292T-01	337716	TBA							
	TBA					\$252.00	\$26.00	\$450.00		\$728.00
	Electronic Music Lessons.									
OC LCT	MUP-292T-02	337719	TBA							
	D. BADSTUBNER					\$252.00	\$26.00	\$450.00		\$728.00
	Audio Recording Lessons.									
OC LCT	MUP-292T-03	337721	TBA							
	TBA					\$252.00	\$26.00	\$450.00		\$728.00
	Live Sound Lessons.									

Nursing

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

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

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

NRS-110 FOUNDATIONS OF NURSING - HEALTH PROMOTION, 5 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

Course No Course Title, Credits							Course No Course Title, Credits						
Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time				Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time			
Instructor		Tuition	Fee	Crs. Fee	Total		Instructor		Tuition	Fee	Crs. Fee	Total	
<p>This course introduces the learner to framework of the OCNE curriculum. The emphasis on health promotion across the life span includes learning about self-health as well as patient health practices. To support self and patient health practices, students learn to access research evidence about healthy lifestyle patterns and risk factors for disease/illness, apply growth and development theory, interview patients in a culturally sensitive manner, work as members of a multidisciplinary team giving and receiving feedback about performance, and use reflective thinking about their practice as nursing students. Populations studied in the course include children, adults, older adults and the family experiencing a normal pregnancy. Includes classroom and clinical learning experiences. The clinical portion of the course includes practice with therapeutic communication skills and selected core nursing skills identified in the OCNE Core Nursing Skills document.</p> <p>Required: Acceptance into the CCC nursing program</p> <p>Corequisites: NRS-110C and NRS-230</p>							<p>This course builds on NRS-112, focusing on more complex and/or unstable patient care conditions, some of which may result in death. These patient care conditions require strong noticing and rapid decision making skills. Evidence base is used to support appropriate focused assessments, and effective, efficient nursing interventions. Life span and developmental factors, cultural variables, and legal aspects of care frame the ethical decision-making employed in patient choices for treatment or palliative care for disorders with an acute trajectory. Case scenarios incorporate prioritizing care needs, delegation and supervision, and family and patient teaching for either discharge planning or end-of-life care. Exemplars include acute conditions affecting multiple body systems. Includes classroom and clinical learning experiences.</p> <p>Required: Acceptance into the CCC nursing program</p> <p>Prerequisites: NRS-112, NRS-112C, and NRS-233</p> <p>Corequisites: NRS-222C</p>						
HAR	NRS-110-01	333460	M		9-2:30 PM		HAR	NRS-222-01	333469	M		8:30 -10:20 AM	
	C. BURT		\$630.00	\$65.00	\$300.00	\$995.00		G. CONNELL		\$504.00	\$52.00	\$175.00	\$731.00
	R. TARTER							K. RICHARDS					
<p>NRS-110C FOUNDATIONS OF NURSING - HEALTH PROMOTION CLINICAL, 4 CREDITS</p> <p>This course introduces the learner to framework of the OCNE curriculum. The emphasis on health promotion across the life span includes learning about self-health as well as client health practices. To support self and client health practices, students learn to access research evidence about healthy lifestyle patterns and risk factors for disease/illness, apply growth and development theory, interview clients in a culturally sensitive manner, work as members of a multidisciplinary team giving and receiving feedback about performance, and use reflective thinking about their practice as nursing students. Populations studied in the course include children, adults, older adults and the family experiencing a normal pregnancy. Includes classroom and clinical learning experiences.</p> <p>Required: Acceptance into the CCC nursing program</p> <p>Corequisites: NRS-110 and NRS-230</p>							<p>NRS-222C NURSING IN ACUTE CARE II & END OF LIFE CLINICAL, 5 CREDITS</p> <p>This course builds on NRS-112, and focuses on more complex and/or unstable patient care conditions, some of which may result in death. These patient care conditions require strong noticing and rapid decision making skills. Evidence base is used to support appropriate focused assessments, and effective, efficient nursing interventions. Life span and developmental factors, cultural variables, and legal aspects of care frame the ethical decision-making employed in patient choices for treatment or palliative care within the acute care setting. Case scenarios incorporate prioritizing care needs, delegation and supervision, and family and patient teaching for either discharge planning or end-of-life care. Exemplars include acute conditions affecting multiple body systems. Includes classroom and clinical learning experiences.</p> <p>Required: Acceptance into the CCC nursing program</p> <p>Prerequisites: NRS-112, NRS-112C, and NRS-233</p> <p>Corequisites: NRS-222</p>						
HAR	NRS-110C-01	333462	T		1:30 -3:20 PM		HAR	NRS-222C-01	333470	T		7-7:20 PM	
			W		9-5:30 PM			A. MARCHANT		\$630.00	\$65.00	\$180.00	\$875.00
			W		9-1:00 PM			K. RICHARDS					
			W		9-2:30 PM		HAR	NRS-222C-02	333472	W		7-7:20 PM	
			WTH		9-2:30 PM			T. FARIS		\$630.00	\$65.00	\$180.00	\$875.00
			TH		9-5:30 PM			K. RICHARDS					
	C. BURT		\$504.00	\$52.00	\$210.00	\$766.00		NRS-222C-03	333473	F		7-7:20 PM	
	B. ELLISON							A. MARCHANT		\$630.00	\$65.00	\$180.00	\$875.00
	R. TARTER							K. RICHARDS					
HAR	NRS-110C-02	333463	T		11-12:50 PM		HAR	NRS-222C-04	333474	TH		7-7:20 PM	
			W		9-2:30 PM			K. RICHARDS		\$630.00	\$65.00	\$180.00	\$875.00
			WTH		9-2:30 PM			NRS-222C-05	333476	TH		7-7:20 PM	
			W		1:30 -5:30 PM			K. RICHARDS		\$630.00	\$65.00	\$180.00	\$875.00
			TH		9-5:30 PM			K. RICHARDS		\$630.00	\$65.00	\$180.00	\$875.00
	C. BURT		\$504.00	\$52.00	\$210.00	\$766.00							
	B. ELLISON												
	R. TARTER												
HAR	NRS-110C-03	333465	T		9-10:50 AM		NRS-230	CLINICAL PHARMACOLOGY I, 3 CREDITS					
			W		9-2:30 PM								
			WTH		9-2:30 PM								
			TH		9-1:00 PM								
	C. BURT		\$504.00	\$52.00	\$210.00	\$766.00							
	B. ELLISON												
	R. TARTER												

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

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

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

Required: Acceptance into the CCC nursing program

Corequisites: NRS-110 and NRS-110C

HAR	NRS-230-01	333477 F			8:30 -10:20 AM	
	K. RICHARDS		\$378.00	\$39.00	\$70.00	\$487.00

NUR-100 NURSING ASSISTANT I, 6.5 CREDITS

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

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

Corequisites: NUR-100C

HAR	NUR-100-01	333478 TW			9-1:30 PM	
	S. ELLSBERG		\$819.00	\$84.50	\$300.00	\$1,203.50
	J. TAYLOR					
	Required: Student Petition. Application required to enter the course. Application details can be found on the webpage. Mandatory Orientation will be held in person on the Harmony Campus for those conditionally accepted into the course. Please see the Nursing Assistant webpage for dates and details.					

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

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

HAR	NUR-100C-01	333480 TBA				
	S. ELLSBERG		\$0.00	\$0.00	\$0.00	\$0.00
	J. TAYLOR					
	Required: Student Petition.					

Philosophy

PHL-101 PHILOSOPHICAL PROBLEMS, 4 CREDITS

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

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

OC HYB LCT	PHL-101-01	334308 TH			10-11:50 AM	
	K. SEVERSON		\$504.00	\$52.00	\$0.00	\$556.00
ONL LCT	PHL-101-02	337618				
	K. HADDIX		\$504.00	\$52.00	\$0.00	\$556.00

PHL-102 ETHICS, 4 CREDITS

Introduces the study of morality with concepts of good, harm, habits, character, perception, behavior and action. Also considers the different theories of human capacity for responsibility.

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

ONL LCT	PHL-102-01	334310				
	M. BAILEY		\$504.00	\$52.00	\$0.00	\$556.00
	No textbook required.					
HAR HYB LCT	PHL-102-15	334313 W			10-11:50 AM	
	M. BAILEY		\$504.00	\$52.00	\$0.00	\$556.00
	No textbook required.					

PHL-103 CRITICAL REASONING, 4 CREDITS

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

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

ONL LCT	PHL-103-01	334314				
	K. HADDIX		\$504.00	\$52.00	\$0.00	\$556.00

Phlebotomy

PHB-110 FUNDAMENTALS OF PHLEBOTOMY, 5 CREDITS

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

Corequisites: PHB-112 and PHB-115

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

ONL LCT	PHB-110-01	333482				
	E. ZUNIGA		\$630.00	\$65.00	\$0.00	\$695.00
	Required: Student Petition.					

PHB-112 PHLEBOTOMY TECHNIQUES, 2 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

Course Listing

2024/FA

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
	Perform venipuncture, capillary puncture, and specimen processing. This course is designed to provide students with active-learning experiences and hands-on training necessary to develop the skills of an entry-level phlebotomist. The student will learn the procedures performed by a phlebotomist and will become familiar with different types of equipment and techniques applied. Instruction on laboratory safety and standards will be emphasized.									
	Corequisites: PHB-110 and PHB-115									
	Recommended Prerequisites: BI-120, or BI-101 & BI-102, or BI-231 & BI-232 & BI-233. HP-110, and WR-101 or WR-121Z									
HAR	PHB-112-01 333483 WF		T. BOYD			\$252.00	\$26.00	9-12:00 PM	\$100.00	\$378.00
	E. ZUNIGA									
	Required: Student Petition.									
HAR	PHB-112-02 337702 WF		E. ZUNIGA			\$252.00	\$26.00	1-4:00 PM	\$100.00	\$378.00
	Required: Student Petition.									
	PHB-115 PROFESSIONALISM FOR PHLEBOTOMISTS, 1 CREDIT									
	Introduces professionalism in the healthcare setting and prepares students for clinical placement.									
	Required: Compliance with the Oregon Health Authority rules for students. Vaccination records for Tdap, MMR, Varicella, Hep B, COVID-19. Completed criminal background check, drug screen, and BLS CPR card through the American Heart Association									
	Corequisites: PHB-110 and PHB-112									
ONL LCT	PHB-115-01 333484		E. ZUNIGA			\$126.00	\$13.00		\$0.00	\$139.00
	Required: Student Petition.									

Physical Education

PE-185 PHYSICAL ACTIVITY CLASSES, 1 CREDIT										
	Recommended: Current physical examination before enrolling									
OC LCT	BASEBALL TECHNIQUES II, 1 CREDIT									
	PE-185-006 337553 MTWTHF		J. HOPPEL			\$126.00	\$13.00	3-4:50 PM	\$30.00	\$169.00
	Meets: 9/9-10/11. Required: Student Petition.									
OC LCT	BASKETBALL, MEN'S CNDTNG II, 1 CREDIT									
	PE-185-004 337551 MWF		C. WEGNER			\$126.00	\$13.00	12-1:50 PM	\$30.00	\$169.00
	Required: Student Petition.									
OC LCT	BASKETBALL, WOMEN'S CNDTNG II, 1 CREDIT									
	PE-185-005 337552 MWF		K. GUELSDORF			\$126.00	\$13.00	4-5:50 PM	\$30.00	\$169.00
	Required: Student Petition.									
ONL LCT	CROSS TRAINING IV, 1 CREDIT									
	PE-185-028 337554		B. STAMME			\$126.00	\$13.00		\$30.00	\$169.00
ONL LCT	CROSS TRAINING IV, 1 CREDIT									
	PE-185-031 337555		B. STAMME			\$126.00	\$13.00		\$30.00	\$169.00
ONL	CROSS TRAINING IV, 1 CREDIT									
	PE-185-032 337556		J. MARTINEAU			\$126.00	\$13.00		\$30.00	\$169.00
	Required: Student Petition.									

OC LCT	SOFTBALL TECHNIQUES II, 1 CREDIT									
	PE-185-064 337557 MTWTH		J. BUEL			\$126.00	\$13.00	1-2:50 PM	\$30.00	\$169.00
	Meets: 9/9-10/11. Required: Student Petition.									
OC LCT	TRACK FUNDAMENTALS II, 1 CREDIT									
	PE-185-082 337559 MWF		K. MCHONE			\$126.00	\$13.00	1:30 -2:50 PM	\$30.00	\$169.00
	Required: Student Petition.									
ONL LCT	WALK, JOG, FITNESS I, 1 CREDIT									
	PE-185-025 334115		K. MCHONE			\$126.00	\$13.00		\$30.00	\$169.00
OC LCT	WEIGHT TRAINING I, 1 CREDIT									
	PE-185-039 334121 TTH		C. WEGNER			\$126.00	\$13.00	10-11:20 AM	\$30.00	\$169.00
ONL LCT	WEIGHT TRAINING I, 1 CREDIT									
	PE-185-018 334110		C. WEGNER			\$126.00	\$13.00		\$30.00	\$169.00
OC LCT	WRESTLING CONDITIONING II, 1 CREDIT									
	PE-185-076 337558 MTWTHF		R. SANCHEZ			\$126.00	\$13.00	6:30 -7:50 AM	\$30.00	\$169.00
	Meets: 9/3-10/4. Required: Student Petition.									
ONL LCT	YOGA I, 1 CREDIT									
	PE-185-008 334108		E. HANCOCK			\$126.00	\$13.00		\$30.00	\$169.00
PE-240 STRENGTH & CONDITIONING THEORY & TECHNIQUES, 3 CREDITS										

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

OC HYB	PE-240-01 334138 W		K. MCHONE			\$378.00	\$39.00	11-11:50 AM	\$0.00	\$417.00
PE-270 SPORT AND EXERCISE PSYCHOLOGY, 3 CREDITS										
	The course is designed to provide students with the basic understanding and knowledge of psychological skills used to improve physical performance in themselves, peers, teammates, and athletes they coach. The course would be well-suited for athletes, coaches, or exercise leaders.									
ONL	PE-270-01 334140		K. MCHONE			\$378.00	\$39.00		\$0.00	\$417.00
PE-280 PHYSICAL EDUCATION/CWE, 2-6 CREDITS										
	Cooperative work experience. Provides students with on-the-job experience and training related to the Physical Education field. Covers job problems and procedures, evaluation of students' job performance by qualified college staff and site supervision. May be repeated for up to 12 credits. Required: Student Petition.									
	Corequisites: CWE-281									
ONL	PE-280-01 334142		T. NELSON			\$756.00	\$78.00		\$45.00	\$879.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.									
PE-294 PROFESSIONAL ACTIVITIES, 1 CREDIT										

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

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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

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

Advanced team skills and strategy courses. Designed to provide the student with basic skills and methodology necessary to conduct physical fitness programs in the school, corporate, and community setting. Emphasis is placed on fitness concepts, techniques of weight training and aerobic exercises to encourage life-long physical activity. Course offerings are: baseball, basketball, cross-country, soccer, softball, track and field, volleyball, and wrestling. Required: Student Petition.

oc	CROSS COUNTRY SKILLS & STRAT., 1 CREDIT					
	PE-294-02 337560 MTWTHF 1:30 -2:50 PM					
	J. MARTINEAU \$126.00 \$13.00 \$30.00 \$169.00					
	Required: Student Petition.					
oc	SOCCER SKILLS & STRATEGIES, 1 CREDIT					
	PE-294-03 337561 MW 11-12:20 PM					
	T. LEWIS \$126.00 \$13.00 \$30.00 \$169.00					
	Required: Student Petition.					
oc	VOLLEYBALL SKILLS & STRATEGIES, 1 CREDIT					
	PE-294-04 337562 TTH 6-7:50 PM					
	A. ITAMI \$126.00 \$13.00 \$30.00 \$169.00					
	Required: Student Petition.					

PE-294A PHILOSOPHY OF COACHING, 2 CREDITS

This course is designed to enhance the leadership, teaching and management skills of coaches as they relate to interacting with athletes at all levels. Group discussions and seminar sessions relating to coaching philosophies, ethics, practice planning, motivation, and dealing with parents, peers and assistants.

ONL	PE-294A-01 334144					
	P. FISKUM \$252.00 \$26.00 \$0.00 \$278.00					

Physics

PH-121 ASTRONOMY, 4 CREDITS

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

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

Corequisites: PH-121L

Prerequisites: WRD-090 or placement in WRD-098

ONL LCT	PH-121-40 334146					
	TBA \$504.00 \$52.00 \$25.00 \$581.00					
	Corequisite: Take the following PH-121L-40.					

PH-121L ASTRONOMY LAB, 0 CREDIT

Lab course for PH-121L

Corequisites: PH-121

ONL LCT	PH-121L-40 334147					
	TBA \$0.00 \$0.00 \$0.00 \$0.00					
	Corequisite: Take the following PH-121-40.					

PH-122 GENERAL ASTRONOMY, 4 CREDITS

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

Prerequisites: PH-121 or GS-107

Corequisites: PH-122L

ONL	PH-122-40 334149					
	TBA \$504.00 \$52.00 \$20.00 \$576.00					
	Corequisite: Take the following PH-122L-40.					

PH-122L GENERAL ASTRONOMY LAB, 0 CREDIT

Campus Locations:

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

Distance Education Notification:

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

Other Coding Translations:

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

ESPAÑOL: Enseñado en español

LCT: Low-Cost Text

Lab course for PH-112

Corequisites: PH-122

ONL	PH-122L-40 334150					
	TBA \$0.00 \$0.00 \$0.00 \$0.00					
	Corequisite: Take the following PH-122-40.					

PH-201 GENERAL PHYSICS, 5 CREDITS

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

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

Corequisites: PH-201L and PH-201S

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

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

oc	PH-201-01 334152 MW 11-12:20 PM					
	T. STUFFLEBEAM \$630.00 \$65.00 \$50.00 \$745.00					
	Corequisite: Take 2 of the following PH-201L-01, PH-201L-02, PH-201L-03, PH-201L-04, PH-201S-01.					

PH-201L GENERAL PHYSICS LAB, 0 CREDIT

Lab course for PH-201

Corequisites: PH-201 and PH-201S

oc	PH-201L-01 334154 T 9-11:50 AM					
	G. BOSTROM \$0.00 \$0.00 \$0.00 \$0.00					
	Corequisite: Take the following PH-201-01, PH-201S-01.					
oc	PH-201L-02 334156 T 1-3:50 PM					
	T. STUFFLEBEAM \$0.00 \$0.00 \$0.00 \$0.00					
	Corequisite: Take the following PH-201-01, PH-201S-01.					
oc	PH-201L-03 334157 TH 1-3:50 PM					
	G. BOSTROM \$0.00 \$0.00 \$0.00 \$0.00					
	Corequisite: Take the following PH-201-01, PH-201S-01.					
oc	PH-201L-04 334159 F 11-1:50 PM					
	G. BOSTROM \$0.00 \$0.00 \$0.00 \$0.00					
	Corequisite: Take the following PH-201-01, PH-201S-01.					

PH-201S GENERAL PHYSICS SEMINAR, 0 CREDIT

Seminar course for PH-201

Corequisites: PH-201 and PH-201L

oc	PH-201S-01 334161 MW 12:25 -12:50 PM					
	T. STUFFLEBEAM \$0.00 \$0.00 \$0.00 \$0.00					
	Corequisite: Take 2 of the following PH-201L-01, PH-201L-02, PH-201L-03, PH-201L-04, PH-201-01.					

PH-211 GENERAL PHYSICS WITH CALCULUS, 5 CREDITS

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

Prerequisite or Corequisite: MTH-252

Corequisites: PH-211L and PH-211S

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

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

oc	PH-211-01 334163 MW 11-12:20 PM					
	G. BOSTROM \$630.00 \$65.00 \$50.00 \$745.00					
	Corequisite: Take 2 of the following PH-211L-01, PH-211L-02, PH-211L-03, PH-211L-04, PH-211S-01, PH-211S-02, PH-211S-03.					

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
OC	PH-211-02 334164 MW 1-2:20 PM G. BOSTROM \$630.00 \$65.00 \$50.00 \$745.00 Corequisite: Take 2 of the following PH-211L-01, PH-211L-02, PH-211L-03, PH-211L-04, PH-211S-01, PH-211S-02, PH-211S-03.									

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

Lab course for PH-211

Corequisites: PH-211 and PH-211S

OC	PH-211L-01 334166 T 9-11:50 AM G. BOSTROM \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take 2 of the following PH-211-01, PH-211-02, PH-211S-01, PH-211S-02, PH-211S-03.									
OC	PH-211L-02 334168 T 1-3:50 PM T. STUFFLEBEAM \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take 2 of the following PH-211-01, PH-211-02, PH-211S-01, PH-211S-02, PH-211S-03.									
OC	PH-211L-03 334169 TH 1-3:50 PM G. BOSTROM \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take 2 of the following PH-211-01, PH-211-02, PH-211S-01, PH-211S-02, PH-211S-03.									
OC	PH-211L-04 334170 F 11-1:50 PM G. BOSTROM \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take 2 of the following PH-211-01, PH-211-02, PH-211S-01, PH-211S-02, PH-211S-03.									

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

Seminar course for PH-211

Corequisites: PH-211 and PH-211L

OC	PH-211S-01 334171 TH 4-4:50 PM G. BOSTROM \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take 2 of the following PH-211L-01, PH-211L-02, PH-211L-03, PH-211L-04, PH-211-01, PH-211-02.									
OC	PH-211S-02 334172 F 10-10:50 AM G. BOSTROM \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take 2 of the following PH-211L-01, PH-211L-02, PH-211L-03, PH-211L-04, PH-211-01, PH-211-02.									
OC	PH-211S-03 334173 F 2-2:50 PM G. BOSTROM \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take 2 of the following PH-211L-01, PH-211L-02, PH-211L-03, PH-211L-04, PH-211-01, PH-211-02.									

Political Science**PS-200 INTRODUCTION TO POLITICAL SCIENCE, 4 CREDITS**

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

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

ONL	PS-200-01 334316 J. HITE \$504.00 \$52.00 \$0.00 \$556.00									
-----	---	--	--	--	--	--	--	--	--	--

PS-201 AMERICAN GOVERNMENT AND POLITICS, 4 CREDITS

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
OC HYB	PS-201-01 334319 T 1-2:50 PM J. HITE \$504.00 \$52.00 \$0.00 \$556.00									

Recommended Prerequisites: WRD-090 or placement in WRD-098**PS-280 POLITICAL SCIENCE/CWE, 2-6 CREDITS (VAR)**

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

Corequisites: CWE-281

OC	PS-280-01 334322 D. LOUGEE \$756.00 \$78.00 \$45.00 \$879.00V Required: Student Petition. Corequisite: Take the following CWE-281-06.									
----	--	--	--	--	--	--	--	--	--	--

Psychology**PSY-101 HUMAN RELATIONS, 3 CREDITS**

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

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

OC LCT	PSY-101-01 334328 MW 1-2:20 PM E. SAUBER \$378.00 \$39.00 \$0.00 \$417.00 Online textbook provided first day of class.									
ONL	PSY-101-02 334336 M. MALLATT \$378.00 \$39.00 \$0.00 \$417.00									
ONL	PSY-101-03 334337 M. MALLATT \$378.00 \$39.00 \$0.00 \$417.00									
HAR	PSY-101-15 334338 W 6-8:50 PM J. VELEZ \$378.00 \$39.00 \$0.00 \$417.00									

PSY-201Z INTRODUCTION TO PSYCHOLOGY I, 4 CREDITS

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

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

OC LCT	PSY-201Z-01 334344 TTH 8-9:50 AM J. KISSLER \$504.00 \$52.00 \$0.00 \$556.00 Online textbook provided first day of class.									
OC LCT	PSY-201Z-02 334349 MW 1-2:50 PM J. KISSLER \$504.00 \$52.00 \$0.00 \$556.00 Online textbook provided first day of class.									
ONL	PSY-201Z-03 337622 S. TOBIN \$504.00 \$52.00 \$0.00 \$556.00									

PSY-202Z INTRODUCTION TO PSYCHOLOGY II, 4 CREDITS**Campus Locations:**

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

Distance Education Notification:

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

Other Coding Translations:

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

ESPAÑOL: Enseñado en español**LCT:** Low-Cost Text

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

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

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

OC HYB LCT	PSY-202Z-01	334351 M			3-4:50 PM	
	I. MANCINELLI-FRANCONI		\$504.00	\$52.00	\$0.00	\$556.00
	Online textbook provided first day of class.					
ONL	PSY-202Z-02	334355				
	S. TOBIN		\$504.00	\$52.00	\$0.00	\$556.00

PSY-215 INTRODUCTION TO DEVELOPMENTAL PSYCHOLOGY, 4 CREDITS

Research and theories regarding the development of the individual from conception to death, including physical, social and cognitive changes.

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

OC LCT	PSY-215-01	334356 TTH			10-11:50 AM	
	J. KISSLER		\$504.00	\$52.00	\$0.00	\$556.00
	Online textbook provided first day of class.					
ONL LCT	PSY-215-02	334364				
	T. THOMAS		\$504.00	\$52.00	\$0.00	\$556.00
	Online textbook provided first day of class.					
ONL	PSY-215-03	334366				
	K. KRASKA		\$504.00	\$52.00	\$0.00	\$556.00
HAR	PSY-215-15	334368 MW			3-4:50 PM	
	J. VELEZ		\$504.00	\$52.00	\$0.00	\$556.00

PSY-219 INTRODUCTION TO ABNORMAL PSYCHOLOGY, 4 CREDITS

Introduction to abnormal psychology, including disorders and approaches to treatment.

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

OC LCT	PSY-219-01	334371 MW			10-11:50 AM	
	E. SAUBER		\$504.00	\$52.00	\$0.00	\$556.00
	Online textbook provided first day of class.					
ONL LCT	PSY-219-02	334375				
	E. SAUBER		\$504.00	\$52.00	\$0.00	\$556.00
	Online textbook provided first day of class.					
ONL	PSY-219-03	334376				
	S. KISER		\$504.00	\$52.00	\$0.00	\$556.00
HAR HYB	PSY-219-15	334377 TH			1-2:50 PM	
	S. KISER		\$504.00	\$52.00	\$0.00	\$556.00

PSY-231 INTRODUCTION TO HUMAN SEXUALITY, 4 CREDITS

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

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

OC LCT	PSY-231-01	334379 TTH			1-2:50 PM	
	E. SAUBER		\$504.00	\$52.00	\$0.00	\$556.00
	Online textbook provided first day of class.					

PSY-280 PSYCHOLOGY/CWE, 2-6 CREDITS (VAR)

Cooperative work experience. This course allows students to engage in real-world learning and apply their academic knowledge in the field of psychology. Required: Student Petition.

Corequisites: CWE-281

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

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

OC	PSY-280-01	334383				
	J. KISSLER		\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

Religion

R-102 CHRISTIANITY AND ISLAM, 4 CREDITS

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

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

ONL	R-102-01	337619				
	J. SHELTON		\$504.00	\$52.00	\$0.00	\$556.00

R-204 HISTORY OF CHRISTIANITY, 4 CREDITS

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

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

ONL	R-204-01	334390				
	J. SHELTON		\$504.00	\$52.00	\$0.00	\$556.00

R-210 WORLD RELIGIONS, 4 CREDITS

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

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

HAR	R-210-15	334391 MW			1-2:50 PM	
	J. SHELTON		\$504.00	\$52.00	\$0.00	\$556.00

R-280 RELIGION/CWE, 2-6 CREDITS (VAR)

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

Corequisites: CWE-281

OC	R-280-01	334394				
	D. LOUGEE		\$756.00	\$78.00	\$45.00	\$879.00V
	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-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.

Course No	Course Title, Credits					
	Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Total
REM	SBM-011-01FA	337654 T				
	TBA			\$0.00	\$0.00	\$0.00

SBM-020 SMALL BUSINESS GREENHOUSE, 0 CREDIT

Two-term intensive training program designed to assist entrepreneurs in planning their business startups, and to develop existing businesses to make them more profitable and to create jobs. Students do extensive individual work on developing business plans with counseling from instructor.

REM	SBM-020-01FA	337650 T				
	J. SELBY			\$0.00	\$0.00	\$0.00
REM	SBM-020-02FA	337651 T				
	J. SELBY			\$0.00	\$0.00	\$0.00
REM	SBM-020-03FA	337652 T				
	J. SELBY			\$0.00	\$0.00	\$0.00
REM	SBM-020-04FA	337653 T				
	J. SELBY			\$0.00	\$0.00	\$0.00

SBM-021 SMALL BUSINESS MANAGEMENT I, 0 CREDIT

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

HAR	SBM-021-01FA	337669 TH				
	R. CAMPBELL			\$0.00	\$0.00	\$0.00
HAR	SBM-021-02FA	337670 TH				
	R. CAMPBELL			\$0.00	\$0.00	\$0.00

SBM-021A SMALL BUSINESS MANAGEMENT I, 0 CREDIT

This class prepares small business owners to work ON the business rather than IN the business. Using the GrowthWheel toolbox students will work on four key challenges every business, large or small, must address: an attractive business concept; building lasting customer relations; maintaining profitable operations; and building a strong organizational structure.

HAR	SBM-021A-01FA	337671 TH				
	R. CAMPBELL			\$0.00	\$0.00	\$0.00

SBM-024 SUCCESSION PLANNING, 0 CREDIT

Learn how to harvest your small farm business, not just your crops. Succession planning in small farm ownership is a critical and complex 3-10 year process that, when done properly, helps farmers maximize their return on their farm investment so they can reach their long-term goals in retirement. This hands-on, 12 month program is designed to teach farmers and individuals who want to buy a farm, how to make it happen. Course consists of monthly class meetings, individual business counseling, peer networking, and work in/on the business.

HAR	SBM-024-01FA	337672 TH				
	D. TOURNEY			\$0.00	\$0.00	\$0.00

SBM-024A SUCCESSION PLANNING, 0 CREDIT

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

Learn how to harvest your small farm business, not just your crops. Succession planning in small farm ownership is a critical and complex 3-10 year process that, when done properly, helps farmers maximize their return on their farm investment so they can reach their long-term goals in retirement. This hands-on, 3 month program is designed to teach farmers and individuals who want to buy a farm, how to make it happen. Course consists of monthly class meetings, individual business counseling, peer networking, and work in/on the business.

HAR	SBM-024A-01FA	337673 TH				
	D. TOURNEY			\$0.00	\$0.00	\$0.00

SBM-028 SMALL BUSINESS MANAGEMENT I FOR CONSTRUCTION CONTRACTORS, 0 CREDIT

Provides information on starting and growing a successful construction business. Teaches students marketing techniques, estimating methods, tax strategies and recordkeeping. Discusses best practices of working with subcontractors and hiring and managing employees.

REM	SBM-028-01FA	337674 W				
	D. TOURNEY			\$0.00	\$0.00	\$0.00
REM	SBM-028-02FA	337675 TH				
	D. TOURNEY			\$0.00	\$0.00	\$0.00

SBM-028A SMALL BUSINESS MANAGEMENT I FOR CONSTRUCTION CONTRACTORS, 0 CREDIT

Provides information on starting and growing a successful construction business. Teaches students marketing techniques, estimating methods, tax strategies and recordkeeping. Discusses best practices of working with subcontractors and hiring and managing employees.

REM	SBM-028A-01FA	337676 W				
	D. TOURNEY			\$0.00	\$0.00	\$0.00
REM	SBM-028A-02FA	337677 TH				
	D. TOURNEY			\$0.00	\$0.00	\$0.00

SBM-029 SMALL BUSINESS MANAGEMENT II FOR CONSTRUCTION CONTRACTORS, 0 CREDIT

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

REM	SBM-029-01FA	337679 W				
	D. TOURNEY			\$0.00	\$0.00	\$0.00

SBM-030 BUSINESS RECOVERY SMALL BUSINESS MANAGEMENT I, 0 CREDIT

Provides education for assessment of existing business model, diagnosis of the business and a prescriptive action plan to improve the business. Teaches students to research, study and apply content learned in class.

REM	SBM-030-01FA	337680 T				
	D. TOURNEY			\$0.00	\$0.00	\$0.00

XSBM-0003 GOING INTO BUSINESS, 0 CREDIT

Going Into Business orientation introduces the steps you need to take to start-up and successfully operate a small business in Oregon.

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

Course No	Course Title, Credits					
	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time		
	Instructor		Tuition	Fee	Crs. Fee	Total
REM	XSBM-0003-01FA	337647	TH		6:30 -9:20 PM	
	J. SELBY		\$0.00	\$0.00	\$0.00	\$0.00
REM	XSBM-0003-02FA	337648	TH		6:30 -9:20 PM	
	J. SELBY		\$0.00	\$0.00	\$0.00	\$0.00
REM	XSBM-0003-03FA	337649	TH		6:30 -9:20 PM	
	J. SELBY		\$0.00	\$0.00	\$0.00	\$0.00

XSBM-0011 QUICKBOOKS PRO: PART I, 0 CREDIT

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

HAR	XSBM-0011-21FA	337655	W		6-8:50 PM	
	C. WEESNER		\$0.00	\$0.00	\$0.00	\$0.00

Social Science

SSC-235 PERSPECTIVES ON TERRORISM, 4 CREDITS

Examines multiple perspectives of terrorism and investigates their assumptions and beliefs. Perspectives will include historical and psychological approaches as well as those of other academic disciplines, including art, literature, religion, and philosophy.

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

OC LCT	SSC-235-01	334411	TTH		1-2:50 PM	
	J. FLOWERS		\$504.00	\$52.00	\$0.00	\$556.00
	No textbook required.					

Sociology

SOC-204 INTRODUCTION TO SOCIOLOGY, 4 CREDITS

This course offers an introduction to the field of sociology. Sociology is the scientific study of human behavior in society. In this course we will introduce and discuss issues including the sociological imagination, culture, socialization, deviance, authority, religion, science and methods of sociological research. Various sociological theories will be introduced and utilized to explore and enhance our understanding of these issues.

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

OC HYB	SOC-204-01	334396	W		10-11:50 AM	
	E. PFEIFER		\$504.00	\$52.00	\$0.00	\$556.00
OC HYB	SOC-204-02	334397	TH		1-2:50 PM	
	E. PFEIFER		\$504.00	\$52.00	\$0.00	\$556.00

SOC-205 SOCIAL STRATIFICATION & SOCIAL SYSTEMS, 4 CREDITS

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

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

OC HYB	SOC-205-01	334399	TH		10-11:50 AM	
	E. PFEIFER		\$504.00	\$52.00	\$0.00	\$556.00
OC HYB	SOC-205-02	334400	W		1-2:50 PM	
	E. PFEIFER		\$504.00	\$52.00	\$0.00	\$556.00

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

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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course No	Course Title, Credits					
	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time		
	Instructor		Tuition	Fee	Crs. Fee	Total
SOC-206 INSTITUTIONS & SOCIAL CHANGE, 4 CREDITS						
This course explores how people can change their society. Social change is a process that can be used by people in a society, to change and improve the functioning of their society. This course will explore and discuss how people-led social movements, in the past and in the present, can be developed, organized, and implemented to accomplish social change.						
Recommended Prerequisites: WRD-098 or placement in WR-121Z						
HAR LCT	SOC-206-15	334401	TTH		10-11:50 AM	
	J. LOVELESS		\$504.00	\$52.00	\$0.00	\$556.00

SOC-210 MARRIAGE, FAMILY, & INTIMATE RELATIONS, 4 CREDITS

This course will introduce students to the study of marriage, intimate relations and family systems from the sociological viewpoint. Students will examine the ways in which race, class, gender, sexuality, community, and society influence patterns of courtship, intimate relations, marriage, and family, and explore the various challenges facing families today.

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

ONL	SOC-210-01	334402				
	J. LOVELESS		\$504.00	\$52.00	\$0.00	\$556.00

SOC-225 SOCIAL PROBLEMS, 4 CREDITS

Applies the sociological framework to the study of social problems, their identification, analysis of causes and possible solutions. Problems explored may include mental disorders, drug and alcohol addiction, crime and delinquency, group discrimination, inequality, poverty, alienation, domestic and international violence, environment, and energy.

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

ONL	SOC-225-01	337620				
	J. LOVELESS		\$504.00	\$52.00	\$0.00	\$556.00

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

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

Corequisites: CWE-281

OC	SOC-280-01	334403				
	E. PFEIFER		\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

Statistics

STAT-243Z ELEMENTARY STATISTICS I, 4 CREDITS

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

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

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

OC LCT	STAT-243Z-01	334412	MW		1-2:50 PM	
	S. PRUYN		\$504.00	\$52.00	\$20.00	\$576.00

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
OC HYB LCT	STAT-243Z-02 334413 TH							10-11:50 AM		
	K. AMREIN					\$504.00	\$52.00	\$20.00		\$576.00
OC HYB	STAT-243Z-03 337597 T							3-4:50 PM		
	K. AMREIN					\$504.00	\$52.00	\$20.00		\$576.00
OC LCT	STAT-243Z-04 337600 TTH							6-7:50 PM		
	T. BIEBER					\$504.00	\$52.00	\$20.00		\$576.00
ONL LCT	STAT-243Z-12 334416									
	C. KYSER					\$504.00	\$52.00	\$20.00		\$576.00

Theatre Arts

TA-101 APPRECIATION OF THEATRE, 4 CREDITS

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

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

OC LCT	TA-101-01	333378 TH	6-9:50 PM
	TBA	\$504.00	\$52.00 \$110.00 \$666.00

TA-111 FUNDAMENTALS OF TECHNICAL THEATRE, 4 CREDITS

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

OC LCT	TA-111-01	333380 TTH	1-3:50 PM
	C. WHITTEN	\$504.00	\$52.00 \$35.00 \$591.00

TA-121 COSTUMING I, 3 CREDITS

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

OC LCT	TA-121-01	333388 MW	10-12:50 PM
	A. HEMLOCK	\$378.00	\$39.00 \$0.00 \$417.00

TA-141 ACTING I, 4 CREDITS

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

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

OC LCT	TA-141-01	333392 MW	10-11:50 AM
	J. WALLenfELS	\$504.00	\$52.00 \$35.00 \$591.00

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

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

Required: Successful audition/interview

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

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

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
OC LCT	TA-153-01	333395 MWF						3-5:50 PM		
	J. WALLenfELS					\$378.00	\$39.00	\$25.00		\$442.00V
	Required: Student Petition.									

TA-195 STUDENT PERFORMANCE SHOWCASE, 1-3 CREDITS (VAR)

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

OC LCT	TA-195-01	333401 MWF	12-2:50 PM
	C. WHITTEN	\$378.00	\$39.00 \$35.00 \$452.00V
	Meets: Improv 12-12:50pm, One-Acts 1-1:50pm, Stand-Up 2-2:50pm.		

TA-211 TECHNICAL THEATRE STUDY, 4 CREDITS

Comprehensive study and practice in presentational graphics, scene design, lighting design, and chromatics. The full creative process of staging a production will be explored through aesthetic research and design projects. Includes hands-on participation in CCC's main stage productions.

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

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

OC LCT	TA-211-01	333406 TTH	1-3:50 PM
	C. WHITTEN	\$504.00	\$52.00 \$35.00 \$591.00

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

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

Required: Successful audition/interview

Recommended Prerequisites: TA-153

OC LCT	TA-253-01	333409 MWF	3-5:50 PM
	J. WALLenfELS	\$378.00	\$39.00 \$25.00 \$442.00V
	Required: Student Petition.		

TA-280 THEATRE/CWE, 2-6 CREDITS

Cooperative work experience. Provides students with a learning experience related to course of study and career goal. Major emphasis will be given to on-the-job experience and training. Required: Student Petition.

Corequisites: CWE-281

ONL LCT	TA-280-01	333415				
	C. WHITTEN	\$756.00	\$78.00	\$45.00	\$879.00V	
	Required: Student Petition.					

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

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

OC LCT	TA-295-01	333421 MWF	12-2:50 PM
	C. WHITTEN	\$378.00	\$39.00 \$35.00 \$452.00V
	Meets: Improv 12-12:50pm, One-Acts 1-1:50pm, Stand-Up 2-2:50pm.		

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

XATH-0001 PLAYS & REHEARSALS, 0 CREDIT

Training in theatre production through intensive study and rehearsal of scenes and plays for public performance.

OC	XATH-0001-01 337583 MWF	J. WALLENFELS	\$0.00	\$0.00	\$35.00	\$35.00
----	-------------------------	---------------	--------	--------	---------	---------

XATH-0002 STAGECRAFT, 0 CREDIT

Training in special forms of theatrical presentation through in-class intensive preparation, study and program development for public presentation to the community.

OC	XATH-0002-01 337584 MWF	J. WALLENFELS	\$0.00	\$0.00	\$35.00	\$35.00
----	-------------------------	---------------	--------	--------	---------	---------

Water & Environmental Technology

WET-010 WASTEWATER OPERATIONS I, 3 CREDITS

For professional upgrade only. Does not meet the requirements for the college certificate or the associates of science degree. Introduction to the fundamentals of wastewater operations. Includes collections systems, preliminary and primary treatment, waste characteristics including organic removals, and solids profiles.

OC HYB	WET-010-01 334187 M	M. LAFORCE	\$378.00	\$39.00	\$15.00	\$432.00
--------	---------------------	------------	----------	---------	---------	----------

For professional upgrade only.

WET-011 WATERWORKS OPERATIONS I, 3 CREDITS

For professional upgrade only. Does not meet the requirements for the certificate or degree. Introduction to municipal drinking water treatment and distribution systems. Basic waterworks hydraulics, drinking water regulations, waterworks math, waterworks microbiology, and introduction to water disinfection.

OC HYB	WET-011-01 334189 T	J. NURMI	\$378.00	\$39.00	\$15.00	\$432.00
--------	---------------------	----------	----------	---------	---------	----------

For professional upgrade only.

WET-108 CROSS-CONNECTION CONTROL PROGRAM SPECIALIST, 3 CREDITS

Specialized training for those who want to be involved in administering cross-connection control programs. Elements of a cross-connection control program, basic hydraulics, state specific regulations, identifying possible cross-connections and site surveys in order to determine proper type of backflow protection, if needed.

OC	WET-108-01 334192 TWTHF	J. NURMI	\$378.00	\$39.00	\$0.00	\$417.00
----	-------------------------	----------	----------	---------	--------	----------

Meets: 12/10-12/13. This is a four-day workshop. Must attend all four days for full credit and certification.

WET-109 BACKFLOW ASSEMBLY OPERATION AND TESTING, 4 CREDITS

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

OC	WET-109-01 334196 MTWTHF	M. LAFORCE	\$504.00	\$52.00	\$4.00	\$560.00
----	--------------------------	------------	----------	---------	--------	----------

Meets: 12/9-12/13.

OC	WET-109-02 334200 MTWTHF	M. LAFORCE	\$504.00	\$52.00	\$4.00	\$560.00
----	--------------------------	------------	----------	---------	--------	----------

Meets: 9/16-9/20.

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

WET-110 WASTEWATER OPERATIONS I, 3 CREDITS

Introduction to the fundamentals of wastewater character and operations. Includes collections systems, preliminary and primary treatment, waste characteristics including organic removals, and solids profiles.

Corequisites: MTH-082A

OC HYB	WET-110-01 334204 M	M. LAFORCE	\$378.00	\$39.00	\$15.00	\$432.00
--------	---------------------	------------	----------	---------	---------	----------

WET-111 WATERWORKS OPERATIONS I, 3 CREDITS

Introduction to municipal drinking water treatment and distribution systems. Basic waterworks hydraulics, drinking water regulations, waterworks math, waterworks microbiology, and introduction to water disinfection.

Corequisites: MTH-082B

OC HYB	WET-111-01 334205 T	J. NURMI	\$378.00	\$39.00	\$15.00	\$432.00
--------	---------------------	----------	----------	---------	---------	----------

WET-112 COMPUTER APPLICATIONS FOR WATER AND WASTEWATER OPERATIONS, 4 CREDITS

Focuses on direct application of Microsoft Word, PowerPoint, and Excel for producing compliance reports, professional presentations, and data analysis. Emphasis will be put on the use of Excel for statistical analysis of water and wastewater plant data for state and federal compliance. Supervisory control and Data Acquisition (SCADA) will also be covered. Wastewater simulators will be explored and used to design and manipulate unit processes.

Corequisites: WET-110 and WET-111

OC HYB	WET-112-01 334207 TBA	M. LAFORCE	\$504.00	\$52.00	\$0.00	\$556.00
--------	-----------------------	------------	----------	---------	--------	----------

WET-125 HIGH PURITY WATER PRODUCTION I, 3 CREDITS

Fundamentals of high purity water chemistry, reverse osmosis treatment, ion exchange treatment, electrode ionization treatment, UV, ozonation, degasification and microfiltration as applied to the production of high purity water for the semiconductor, pharmaceutical and electric power generating industries.

Corequisites: MTH-082E

REM	WET-125-01 334208 T	G. CARR	\$378.00	\$39.00	\$15.00	\$432.00
-----	---------------------	---------	----------	---------	---------	----------

WET-180 WATER & ENVIRONMENTAL PROJECTS I, 5 CREDITS

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 334209	M. LAFORCE	\$630.00	\$65.00	\$45.00	\$740.00
-----	-------------------	------------	----------	---------	---------	----------

Required: Student Petition. Corequisite: Take the following CWE-281-03.

WET-241 AQUATIC MICROBIOLOGY, 4 CREDITS

A lab course with topics in applied microbiology. Methods to detect coliform group in water and wastewater. Identification of filamentous bacteria in activated sludge, and identification of indicator protozoa in activated sludge. A bacteriological stream survey project is included.

Prerequisites: BI-204

2024/FA

Course No Course Title, Credits							Course No Course Title, Credits						
	Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,Su) Tuition	Fee	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T,W,Th,F,S,Su) Tuition	Fee	Time Crs. Fee	Total
OC	WET-241-01	334210	TBA					XWET-C003	2-DAY TESTER RETRAIN/RENEWAL, 1.20 CEUS				
	J. NURMI		MW	\$504.00	\$52.00	\$40.00	\$596.00						
WET-242 HYDRAULICS FOR WATER & WASTEWATER, 3 CREDITS													
Introduction to closed conduit and open channel flow. Includes hydrostatics and dynamics, head-loss, pump characteristics, Bernoulli's and the energy equations, and basic characteristics of water.							Review of backflow prevention assemblies used for water/wastewater system cross connection control. Review will include overview of hydraulics and degree of hazards, proper backflow installation procedures, and approved testing/troubleshooting procedures. Students will learn to identify common, actual, and potential cross connection hazards; students will be introduced to the basic requirements for carrying out a cross connection program. Upon successful hands on and written exam completion, students will be issued certificate of completion by OBT/CCC and transcribed for appropriate number of CEUs. Students will be able to apply to Oregon Health Department for recertification by that agency.						
Prerequisites: WET-122													
OC HYB	WET-242-01	334213	MW					OC	XWET-C003-21	334380	THF		
	M. LAFORCE			\$378.00	\$39.00	\$15.00	\$432.00		M. LAFORCE			\$0.00	\$0.00
							Meets: 10/17-10/18. Fee: \$200.00. Go to ccc-wet.eventbrite.com to sign up.						
WET-245 INSTRUMENTATION & CONTROL, 4 CREDITS													
A lab course introducing methods used to monitor and control treatment processes in wastewater, water and high purity water facilities. Advanced water analysis to include typical monitoring of high purity water treatment. Fundamentals of control loops, control systems and data management.													
OC HYB	WET-245-01	334217	W					OC	XWET-C003-22	334381	THF		
	G. CARR			\$504.00	\$52.00	\$40.00	\$596.00		M. LAFORCE			\$0.00	\$0.00
							Meets: 11/14-11/15. Fee: \$200.00. Go to ccc-wet.eventbrite.com to sign up.						
WET-280 WATER & ENVIRONMENTAL PROJECTS II, 5 CREDITS							XWET-C004 4-DAY CROSS CONNECTION SPECIALIST COURSE, 3.20 CEUS						
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.							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.						
Corequisites: CWE-281													
ONL	WET-280-01	334220						OC	XWET-C004-41	334382	TWTHF		
	M. LAFORCE			\$630.00	\$65.00	\$45.00	\$740.00		J. NURMI			\$0.00	\$0.00
Required: Student Petition. Corequisite: Take the following CWE-281-03.							Meets: 12/10-12/13 Fee: \$400.00. Go to ccc-wet.eventbrite.com to sign up. This is an in-person only workshop.						
XWET-C001	1-DAY CROSS CONNECTION SPECIALIST UPDATE, 0.60 CEUS												
Update on code information or any changes in the program.													
OC	XWET-C001-31	334373	F										
	J. NURMI			\$0.00	\$0.00	\$0.00	\$0.00						
Meets: 11/1. Fee: \$100.00. Go to ccc-wet.eventbrite.com to sign up.													
XWET-C002	1-DAY TESTER RENEWAL, 0.60 CEUS												
Update on OARs and hands on testing to recertify student for backflow assembly certification through the State of Oregon.													
OC	XWET-C002-11	334374	F					OC	XWET-C005-51	334384	MTWTHF		
	M. LAFORCE			\$0.00	\$0.00	\$0.00	\$0.00		M. LAFORCE			\$0.00	\$0.00
	J. NURMI								Meets: 12/9-12/13. Fee: \$500.00. Go to ccc-wet.eventbrite.com to sign up.				
OC	XWET-C002-12	334378	F					OC	XWET-C005-52	334385	MTWTHF		
	M. LAFORCE			\$0.00	\$0.00	\$0.00	\$0.00		M. LAFORCE			\$0.00	\$0.00
Meets: 12/6. Fee: \$100.00. Go to ccc-wet.eventbrite.com to sign up.							Meets: 9/16-9/20. Fee: \$500.00. Go to ccc-wet.eventbrite.com to sign up.						

Welding Technology

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course Listing

2024/FA

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
	Instructor			Tuition	Fee	Crs. Fee
<i>Must have ANSI approved eye protection first day and comply with College safety policy.</i>						
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	334222 TH				2-4:50 PM
	D. PODKOWA		\$378.00	\$39.00	\$219.00	\$636.00
OC	WLD-100-02	334224 T				6-8:50 PM
	M. TIZO		\$378.00	\$39.00	\$219.00	\$636.00

WLD-102	INTRODUCTION TO WELDING, 2 CREDITS					
Designed for the beginner and experimental welder. Includes: oxy-acetylene cutting and welding, SMAW (Shielded Metal Arc Welding), GMAW & FCAW (Gas Metal Arc Welding & Flux Core Arc Welding) and GTAW (Gas Tungsten Arc Welding) and plasma arc cutting.						
OC LCT	WLD-102-01	334225 F				6-9:50 PM
	A. TOWN		\$252.00	\$26.00	\$146.00	\$424.00
OC LCT	WLD-102-02	334228 S				9-12:50 PM
	M. TIZO		\$252.00	\$26.00	\$146.00	\$424.00
OC LCT	WLD-102-03	334230 S				2-5:50 PM
	K. DRURY		\$252.00	\$26.00	\$146.00	\$424.00

WLD-102ES	INTRODUCCIÓN A LA SOLDADURA, 2 CREDITS					
Diseñado para soldaderos principiantes y experimental. Incluye corte y soldadura oxiacetileno, soldadura por arco de metal blindado (SMAW), la soldadura de arco de metal y gas (GMAW) y Soldadura por Arco con Nucleo de Fundente (FCAW) y soldadura por arco de gas tungsteno (GTAW) y corte por plasma.						
OC ESPAÑOL	WLD-102ES-01	337735 S				6-9:50 PM
	F. PAXTOR		\$252.00	\$26.00	\$146.00	\$424.00

WLD-103	BLACKSMITHING & TRADITIONAL IRON WORKING, 2 CREDITS					
This course introduces the student to basic blacksmithing techniques and processes, as well as terminology, steel types, heat treating and tool making. Multiple projects allow the student to practice the varied methods of manual metal forming. No welding experience required.						
OC LCT	WLD-103-01	334232 F				6-9:50 PM
	TBA		\$252.00	\$26.00	\$146.00	\$424.00
OC LCT	WLD-103-02	334236 SU				10-1:50 PM
	TBA		\$252.00	\$26.00	\$146.00	\$424.00

WLD-110	WELDER CERTIFICATION, 4 CREDITS					
This course provides theory and practical instruction to become a certified welder. Students will choose a welding process (flux core arc welding, shielded metal arc welding, or gas tungsten arc welding) for certification. Material needed for practice welding will be provided. Students will take a welding certification exam at the end of the class. May be repeated for up to 12 credits.						
OC LCT	WLD-110-01	334242 MW				8-11:50 AM
	K. DRURY		\$504.00	\$52.00	\$432.00	\$988.00
Required: Student Petition.						

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
	Instructor			Tuition	Fee	Crs. Fee
OC LCT	WLD-110-02	334245 MW				1-4:50 PM
	B. MULLIGAN		\$504.00	\$52.00	\$432.00	\$988.00
Required: Student Petition.						
OC LCT	WLD-110-03	334250 MW				6-9:50 PM
	M. TIZO		\$504.00	\$52.00	\$432.00	\$988.00
Required: Student Petition.						
OC LCT	WLD-110-04	334251 TTH				8-11:50 AM
	D. BATES		\$504.00	\$52.00	\$432.00	\$988.00
Required: Student Petition.						
OC LCT	WLD-110-05	334252 TTH				6-9:50 PM
	B. MULLIGAN		\$504.00	\$52.00	\$432.00	\$988.00
Required: Student Petition.						
OC LCT	WLD-110-06	334255 TTH				1-4:50 PM
	B. MULLIGAN		\$504.00	\$52.00	\$432.00	\$988.00
Required: Student Petition.						

WLD-111	SHIELDED METAL ARC WELDING (STICK), 8 CREDITS					
Provides students with the opportunity to acquire knowledge and skills to set up and operate equipment to perform fillet and groove welds in all positions with the SMAW process. Oxy-fuel cutting, air carbon arc cutting and gouging will be covered. Welding codes, standards, and specifications will be reviewed.						
OC LCT	WLD-111-01	334259 MTWTH				6-9:50 PM
	J. PHELPS		\$1,008.00	\$104.00	\$584.00	\$1,696.00

WLD-111A	SHIELDED METAL ARC WELDING (STICK), 4 CREDITS					
The first half of WLD-111 which provides the opportunity to acquire knowledge and skills to set up and operate equipment to perform fillet welds in flat and horizontal positions with the SMAW process. Oxy-fuel cutting, air carbon arc cutting and gouging will be covered.						
OC LCT	WLD-111A-01	334260 MW				6-9:50 PM
	J. PHELPS		\$504.00	\$52.00	\$292.00	\$848.00
OC	WLD-111A-02	334263 MTWTH				7:30 -9:20 AM
	R. ABBOTT		\$504.00	\$52.00	\$292.00	\$848.00
OC	WLD-111A-03	334267 MTWTH				1:15 -3:05 PM
	R. ABBOTT		\$504.00	\$52.00	\$292.00	\$848.00
OC	WLD-111A-04	337734 MTWTH				3:30 -5:20 PM
	R. ABBOTT		\$504.00	\$52.00	\$292.00	\$848.00

WLD-111B	SHIELDED METAL ARC WELDING (STICK), 4 CREDITS					
The second half of WLD-111 which provides the opportunity to acquire additional knowledge and skills needed to perform more advanced fillet and groove welds in vertical and overhead positions with the SMAW process. Welding codes, standards, and specifications will be reviewed.						
Prerequisites: WLD-111A						
OC LCT	WLD-111B-01	334276 TTH				6-9:50 PM
	J. PHELPS		\$504.00	\$52.00	\$292.00	\$848.00
OC LCT	WLD-111B-02	334278 MTWTH				7:30 -9:20 AM
	R. ABBOTT		\$504.00	\$52.00	\$292.00	\$848.00
OC LCT	WLD-111B-03	334283 MTWTH				1:15 -3:05 PM
	R. ABBOTT		\$504.00	\$52.00	\$292.00	\$848.00
OC	WLD-111B-04	337733 MTWTH				3:30 -5:20 PM
	R. ABBOTT		\$504.00	\$52.00	\$292.00	\$848.00

WLD-113	GAS METAL ARC WELDING/FLUX CORE ARC WELDING (WIREFEED), 8 CREDITS					
Provides students with the opportunity to acquire knowledge and skills to set up and operate equipment to perform fillet and groove welds in all positions with the Gas Metal Arc and Flux Core Arc Welding processes. Oxy-fuel cutting, and air carbon arc cutting and gouging will be covered. Welding codes, standards and specifications will be reviewed.						

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

Course No	Course Title, Credits		Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time	Total
	Instructor				Tuition	Fee	Crs. Fee
OC	WLD-113-01	334290	MTWTH		8-11:50 AM		
	D. PODKOWA				\$1,008.00	\$104.00	\$584.00
					0		\$1,696.00
WLD-113A GAS METAL ARC WELDING/FLUX CORE ARC WELDING (WIREFEED), 4 CREDITS							
The first half of WLD-113 which provides the opportunity to acquire knowledge and skills to set up and operate equipment to perform fillet welds in flat and horizontal positions with the Gas Metal Arc and Flux Core Arc Welding processes. Oxy-fuel cutting, air carbon arc cutting and gouging will be covered.							
OC	WLD-113A-01	334291	MW		8-11:50 AM		
	D. PODKOWA				\$504.00	\$52.00	\$292.00
							\$848.00
WLD-113B GAS METAL ARC WELDING/FLUX CORE ARC WELDING (WIREFEED), 4 CREDITS							
The second half of WLD-113 which provides the opportunity to acquire additional knowledge and skills needed to perform more advanced fillet and groove welds in vertical and overhead positions with the Gas Metal Arc and Flux Core Arc Welding processes. Welding codes, standards, and specifications will be reviewed.							
Prerequisites: WLD-113A							
OC	WLD-113B-01	334292	TTH		8-11:50 AM		
	D. PODKOWA				\$504.00	\$52.00	\$292.00
							\$848.00
WLD-150 WELDING PROCESSES, 4 CREDITS							
Covers oxy-fuel welding, brazing, cutting, SMAW (Shielded Metal Arc Welding), GMAW & FCAW (Gas Metal Arc Welding & Flux Core Arc Welding) and GTAW (Gas Tungsten Arc Welding) and plasma arc cutting and plasma cutting. This course includes safety, electrical fundamentals, routine maintenance, minor repairs, and welding terms and definitions.							
OC	WLD-150-01	334295	MW		6-9:50 PM		
	M. TIZO				\$504.00	\$52.00	\$292.00
							\$848.00
OC	WLD-150-02	334297	MW		8-11:50 AM		
	K. DRURY				\$504.00	\$52.00	\$292.00
							\$848.00
WLD-203 BLACKSMITHING & TRADITIONAL IRON WORKING II, 2 CREDITS							
This course builds on the WLD-103 course and expands on the process of forged metal work. Instruction includes power hammer use, tooling design, traditional joinery, and intermediate projects. Welding experience helpful, but not required.							
OC LCT	WLD-203-01	334298	SU		2-5:50 PM		
	TBA				\$252.00	\$26.00	\$146.00
							\$424.00
WLD-210 PIPE WELDING, 4 CREDITS							
Provides beginning theory and practical instruction in the Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux Core Arc Welding (FCAW), or Gas Tungsten Arc Welding (GTAW) processes on steel plate and pipe. The specific projects include: stringer beads, fillet and groove welds on plate with root and cover proficiency, pipe cutting using the oxy-fuel process, pipe beveling and groove welds on pipes in all positions. The student may choose which process or processes will be used to complete the lab assignments.							
Prerequisites: WLD-111, or WLD-111A and WLD-111B. WLD-113, or WLD-113A and WLD-113B. WLD-115, or WLD-115A and WLD-115B. WLD-150 or prior experience in SMAW, GMAW, FCAW, or GTAW							
OC LCT	WLD-210-01	334299	MW		1-4:50 PM		
	B. MULLIGAN				\$504.00	\$52.00	\$292.00
							\$848.00
					Required: Student Petition.		

Course No	Course Title, Credits		Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time	Total
	Instructor				Tuition	Fee	Crs. Fee
WLD-211	ADVANCED SHIELDED METAL ARC WELDING, 4 CREDITS						
This course provides the opportunity for students to acquire the knowledge and skills needed to perform quality fillet and groove welds in all positions using the Shielded Metal Arc Welding (SMAW) process. Advanced welding theory and procedures will also be included.							
Prerequisites: WLD-111; or WLD-111A and WLD-111B							
OC LCT	WLD-211-01	334302	TTH		6-9:50 PM		
	B. MULLIGAN				\$504.00	\$52.00	\$292.00
							\$848.00
WLD-212	SHIELDED METAL ARC WELDING PIPE WELDING, 4 CREDITS						
This class is designed to teach students the fundamentals of open root pipe welding. Theory and practical instruction in open root V groove pipe welding using E6010 and E7018 electrodes will be provided. Oxy-fuel pipe cutting is also included. Required: Student Petition.							
Prerequisites: WLD-211							
OC LCT	WLD-212-01	334303	MW		1-4:50 PM		
	B. MULLIGAN				\$504.00	\$52.00	\$292.00
							\$848.00
					Required: Student Petition.		
WLD-213	ADVANCED GAS METAL ARC WELDING/FLUX CORE ARC WELDING, 4 CREDITS						
This course provides the opportunity for students to acquire the knowledge and skills needed to perform quality fillet and groove welds in all positions using the Gas Metal Arc Welding (GMAW) and Flux Core Arc Welding (FCAW) processes. Advanced welding theory and procedures will also be included.							
Prerequisites: WLD-113; or WLD-113A and WLD-113B							
OC LCT	WLD-213-01	334305	TTH		8-11:50 AM		
	D. BATES				\$504.00	\$52.00	\$292.00
							\$848.00
WLD-250	WELDING FABRICATION I BEGINNING PROJECT, 4 CREDITS						
This course consists of lecture and lab and provides instruction in fabrication techniques including blueprint reading, layout, sketching, bills of material, job cost calculations, measuring, fitting, cutting and welding. Students will be assigned beginning fabrication projects. The student will be responsible for all aspects of managing the project to successful completion.							
Prerequisites: WLD-111, WLD-113, or WLD-115							
OC LCT	WLD-250-01	334307	TTH		1-4:50 PM		
	B. MULLIGAN				\$504.00	\$52.00	\$292.00
							\$848.00
WLD-251	WELDING FABRICATION II INTERMEDIATE PROJECT, 4 CREDITS						
This course consists of lecture and lab. Students will use the skills learned in WLD-250, such as blueprint reading, layout, sketching, bills of materials, job cost calculations, measuring, fitting, cutting and welding, and apply them to more challenging projects. Students will be assigned intermediate fabrication projects. The student will be responsible for all aspects of managing the project to successful completion.							
Prerequisites: WLD-250							
OC LCT	WLD-251-01	334309	TTH		1-4:50 PM		
	B. MULLIGAN				\$504.00	\$52.00	\$292.00
							\$848.00
WLD-252	WELDING FABRICATION III ADVANCED PROJECT, 4 CREDITS						

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

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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course Listing

2024/FA

Course No Course Title, Credits							Course No Course Title, Credits										
Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
<p>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.</p> <p>Prerequisites: WLD-251</p>																	
OC LCT	WLD-252-01	334311	TTH			1-4:50 PM			OC LCT	WLD-280-01	334333						
	B. MULLIGAN			\$504.00	\$52.00	\$292.00	\$848.00			TBA			\$756.00	\$78.00	\$45.00	\$879.00V	
<p>WLD-261 WELDING SPECIAL PROJECTS, 1-2 CREDITS (VAR)</p> <p>Allows students to improve their welding skills while working on instructor-approved projects. May be repeated for up to 12 credits.</p>																	
OC LCT	WLD-261-01	334312	M			8-11:50 AM			<p>Required: Student Petition.</p>								
	D. PODKOWA			\$252.00	\$26.00	\$146.00	\$424.00V										
OC LCT	WLD-261-02	334315	M			1-4:50 PM			<p>Required: Student Petition.</p>								
	B. MULLIGAN			\$252.00	\$26.00	\$146.00	\$424.00V										
OC LCT	WLD-261-03	334317	M			6-9:50 PM			<p>Required: Student Petition.</p>								
	J. PHELPS			\$252.00	\$26.00	\$146.00	\$424.00V										
OC LCT	WLD-261-04	334318	T			6-9:50 PM			<p>Required: Student Petition.</p>								
	J. PHELPS			\$252.00	\$26.00	\$146.00	\$424.00V										
OC LCT	WLD-261-05	334320	W			8-11:50 AM			<p>Required: Student Petition.</p>								
	D. PODKOWA			\$252.00	\$26.00	\$146.00	\$424.00V										
OC LCT	WLD-261-06	334321	W			1-4:50 PM			<p>Required: Student Petition.</p>								
	B. MULLIGAN			\$252.00	\$26.00	\$146.00	\$424.00V										
OC LCT	WLD-261-07	334323	W			6-9:50 PM			<p>Required: Student Petition.</p>								
	J. PHELPS			\$252.00	\$26.00	\$146.00	\$424.00V										
OC LCT	WLD-261-08	334324	TH			6-9:50 PM			<p>Required: Student Petition.</p>								
	J. PHELPS			\$252.00	\$26.00	\$146.00	\$424.00V										
OC LCT	WLD-261-09	334325	F			6-9:50 PM			<p>Required: Student Petition.</p>								
	TBA			\$252.00	\$26.00	\$146.00	\$424.00V										
OC LCT	WLD-261-10	334326	S			9-12:50 PM			<p>Required: Student Petition.</p>								
	M. TIZO			\$252.00	\$26.00	\$146.00	\$424.00V										
OC LCT	WLD-261-11	334327	S			2-5:50 PM			<p>Required: Student Petition.</p>								
	K. DRURY			\$252.00	\$26.00	\$146.00	\$424.00V										
OC LCT	WLD-261-12	334329	SU			10-1:50 PM			<p>Required: Student Petition.</p>								
	TBA			\$252.00	\$26.00	\$146.00	\$424.00V										
OC LCT	WLD-261-13	334330	SU			2-5:50 PM			<p>Required: Student Petition.</p>								
	TBA			\$252.00	\$26.00	\$146.00	\$424.00V										
OC LCT	WLD-261-14	334331	T			8-11:50 AM			<p>Required: Student Petition.</p>								
	D. PODKOWA			\$252.00	\$26.00	\$146.00	\$424.00V										
OC LCT	WLD-261-15	334332	TH			8-11:50 AM			<p>Required: Student Petition.</p>								
	D. PODKOWA			\$252.00	\$26.00	\$146.00	\$424.00V										
<p>WLD-280 WELDING TECHNOLOGY/CWE, 1-6 CREDITS (VAR)</p>																	
<p>Cooperative work experience in the welding trades. Worksite to be determined prior to registering for this class. Skills learned from welding classes will be applied while working at a job site. Goals for this class will be established with the company supervisor, instructor, and student. May be repeated for up to 9 credits. Required: Student Petition.</p> <p>Corequisites: CWE-281</p>																	
<p>OC LCT WLD-280-01 334333</p>																	
<p>TBA \$756.00 \$78.00 \$45.00 \$879.00V</p>																	
<p>Required: Student Petition. Corequisite: Take the following CWE-281-06.</p>																	
<p>XWLD-0001 AMERICAN WELDING SOCIETY (WLD) CERTIFICATION 1 PLATE TEST, 0 CREDIT</p>																	
<p>Welder certification in accordance with AWS D1.1 for one position for students enrolled in any CCC welding course.</p>																	
oc	XWLD-0001-01	334386	TBA						oc	XWLD-0001-01	334386	TBA					
	B. MULLIGAN			\$0.00	\$0.00	\$140.00	\$140.00			B. MULLIGAN			\$0.00	\$0.00	\$140.00	\$140.00	
<p>Required: Student Petition.</p>																	
<p>XWLD-0002 AMERICAN WELDING SOCIETY CERTIFICATION 2 PLATE OR 1 PIPE TEST, 0 CREDIT</p>																	
<p>Welder certification in any two positions, in accordance with AWS D1.1 for students enrolled in any CCC welding course.</p>																	
oc	XWLD-0002-01	334387	TBA						oc	XWLD-0002-01	334387	TBA					
	B. MULLIGAN			\$0.00	\$0.00	\$280.00	\$280.00			B. MULLIGAN			\$0.00	\$0.00	\$280.00	\$280.00	
<p>Required: Student Petition.</p>																	
<p>XWLD-0003 AMERICAN WELDING SOCIETY CERTIFICATION RETAKE TEST, 0 CREDIT</p>																	
<p>Welder certification on retest in any position, in accordance with AWS D1.1 for students enrolled in any CCC welding course. Required: Student Petition.</p>																	
oc	XWLD-0003-01	334389	TBA						oc	XWLD-0003-01	334389	TBA					
	B. MULLIGAN			\$0.00	\$0.00	\$25.00	\$25.00			B. MULLIGAN			\$0.00	\$0.00	\$25.00	\$25.00	
<p>Required: Student Petition.</p>																	
<p>Women's Studies</p>																	
<p>WS-101 INTRODUCTION TO WOMEN'S STUDIES, 4 CREDITS</p>																	
<p>Examines the history of the representation of women, the history of US feminism and the development of Women's Studies as an academic discipline. Critically explores social issues relevant to women's lives, including gender-expression, marginalization, reproduction, sexuality, economic status and the experience of violence.</p>																	
<p>Recommended Prerequisites: WRD-098 or placement in WR-121Z</p>																	
OC HYB LCT	WS-101-01	334500	M			10-11:50 AM			OC HYB LCT	WS-101-01	334500	M			10-11:50 AM		
	K. SEVERSON			\$504.00	\$52.00	\$0.00	\$556.00			K. SEVERSON			\$504.00	\$52.00	\$0.00	\$556.00	
<p>Online textbook provided first day of class.</p>																	
ONL LCT	WS-101-02	334501							ONL LCT	WS-101-02	334501						
	T. BOYLE- GALESTIANTZ			\$504.00	\$52.00	\$0.00	\$556.00			T. BOYLE- GALESTIANTZ			\$504.00	\$52.00	\$0.00	\$556.00	
<p>No textbook required.</p>																	
<p>World Languages</p>																	
<p>ASL-101 FIRST-YEAR AMERICAN SIGN LANGUAGE I, 4 CREDITS</p>																	

Women's Studies

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

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

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

OC HYB LCT	WS-101-01	334500	M					10-11:50 AM		
	K. SEVERSON					\$504.00	\$52.00	\$0.00		\$556.00
	Online textbook provided first day of class.									
ONL LCT	WS-101-02	334501								
	T. BOYLE- GALESTIAN TZ					\$504.00	\$52.00	\$0.00		\$556.00
	No textbook required.									

World Languages

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

Campus Locations:

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

Distance Education Notification:

ONL: Online Only
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

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
--	--	--	--

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
WR-101	WORKPLACE WRITING, 4 CREDITS						ONL LCT	WR-121Z-24 334442					
	Students in this course learn and practice basic modes of technical writing, including summaries, process analysis, instructions, and reports.							N. ROSEVEAR		\$504.00	\$52.00	\$19.00	\$575.00
	Prerequisites: WRD-098 or placement in WR-101 or WR-121Z						ONL	WR-121Z-25 334443					
								N. ROSEVEAR		\$504.00	\$52.00	\$19.00	\$575.00
OC LCT	WR-101-01 334418 MW					1-2:50 PM	WR-122Z	COMPOSITION II, 4 CREDITS					
	C. ZIMMERLY-BECK	\$504.00	\$52.00	\$19.00	\$575.00			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.					
ONL LCT	WR-101-02 334419							Prerequisites: WR-121Z with a C or better					
	P. CRUMRINE	\$504.00	\$52.00	\$19.00	\$575.00		OC LCT	WR-122Z-01 334451 MW				1-2:50 PM	
WR-121Z	COMPOSITION I, 4 CREDITS							J. BRYANT-TRERISE	\$504.00	\$52.00	\$19.00	\$575.00	
	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.						OC LCT	WR-122Z-02 334452 TTH				1-2:50 PM	
	Prerequisites: WRD-098 or placement in WR-121Z							TBA	\$504.00	\$52.00	\$19.00	\$575.00	
OC LCT	WR-121Z-01 334420 MW					10-11:50 AM	OC LCT	WR-122Z-03 334453 TTH				3-4:50 PM	
	C. BURNELL	\$504.00	\$52.00	\$19.00	\$575.00			J. BRYANT-TRERISE	\$504.00	\$52.00	\$19.00	\$575.00	
OC LCT	WR-121Z-02 334421 MW					1-2:50 PM	OC HYB	WR-122Z-04 334454 M				1-2:50 PM	
	C. BURNELL	\$504.00	\$52.00	\$19.00	\$575.00			R. MURPHY	\$504.00	\$52.00	\$19.00	\$575.00	
OC LCT	WR-121Z-03 334422 MW					3-4:50 PM	OC HYB	WR-122Z-05 334455 T				10-11:50 AM	
	C. ZIMMERLY-BECK	\$504.00	\$52.00	\$19.00	\$575.00			S. NIZIOLEK	\$504.00	\$52.00	\$19.00	\$575.00	
OC LCT	WR-121Z-04 334423 TTH					10-11:50 AM	OC HYB LCT	WR-122Z-06 334456 W				1-2:50 PM	
	J. BRYANT-TRERISE	\$504.00	\$52.00	\$19.00	\$575.00			L. ORMANDY	\$504.00	\$52.00	\$19.00	\$575.00	
OC LCT	WR-121Z-05 334424 TTH					10-11:50 AM	ONL	WR-122Z-07 334457					
	R. DAVIS	\$504.00	\$52.00	\$19.00	\$575.00			P. CRUMRINE	\$504.00	\$52.00	\$19.00	\$575.00	
OC LCT	WR-121Z-06 334425 TTH					1-2:50 PM	ONL LCT	WR-122Z-08 334458					
	J. DAVIS	\$504.00	\$52.00	\$19.00	\$575.00			R. MURPHY	\$504.00	\$52.00	\$19.00	\$575.00	
OC LCT	WR-121Z-07 334426 TTH					3-4:50 PM	ONL LCT	WR-122Z-09 334459					
	J. DAVIS	\$504.00	\$52.00	\$19.00	\$575.00			S. WARREN	\$504.00	\$52.00	\$19.00	\$575.00	
OC HYB LCT	WR-121Z-08 334427 M					10-11:50 AM	ONL LCT	WR-122Z-10 334460					
	R. MURPHY	\$504.00	\$52.00	\$19.00	\$575.00			C. BURNELL	\$504.00	\$52.00	\$19.00	\$575.00	
OC HYB LCT	WR-121Z-09 334428 M					1-2:50 PM	HAR HYB	WR-122Z-15 334461 W				6-7:50 PM	
	S. WARREN	\$504.00	\$52.00	\$19.00	\$575.00			M. SCHUMACHER	\$504.00	\$52.00	\$19.00	\$575.00	
OC HYB LCT	WR-121Z-10 334429 M					3-4:50 PM	WR-124ES	ESCRITURA DE ENSAYOS DE NIVEL UNIVERSITARIO EN ESPAÑOL, 4 CREDITS					
	S. WARREN	\$504.00	\$52.00	\$19.00	\$575.00			Este curso ofrece una introducción al ensayo académico. El alumnado aprenderá un proceso de escritura y redacción: desde cómo hacer una «lluvia de ideas» para generar ideas hasta cómo corregir e editar un escrito. A la vez, se desarrollarán respuestas originales-en forma escrita-a reseñas y reportajes sobre temas controversiales y a los ensayos académicos difíciles. La clase enfatizará la alfabetización de la información, así como: cómo encontrar y evaluar materiales, recursos relevantes y obras originales; cómo integrarlos en una redacción académica y cómo citarlos.					
OC HYB	WR-121Z-11 334430 T					8-9:50 AM	Required:	Los y las estudiantes deben leer y escribir a nivel universitario, en español, antes de comenzar el curso					
	TBA	\$504.00	\$52.00	\$19.00	\$575.00		Prerequisites:	WRD-098 o ubicación en WR-121Z					
OC HYB	WR-121Z-12 334431 T					10-11:50 AM	ONL LCT	WR-124ES-01 334463					
	TBA	\$504.00	\$52.00	\$19.00	\$575.00		ESPAÑOL	A. DEFRESE	\$504.00	\$52.00	\$19.00	\$575.00	
OC HYB LCT	WR-121Z-13 334432 T					1-2:50 PM	WR-127	SCHOLARSHIP ESSAY WRITING, 1 CREDIT					
	S. NIZIOLEK	\$504.00	\$52.00	\$19.00	\$575.00			Introduces scholarship resources and the application process. Examines and applies the concept of 'telling the story of me,' and drafting, revising, and editing a complete scholarship application essay.					
OC HYB LCT	WR-121Z-14 334433 W					1-2:50 PM	ONL LCT	WR-127-01 334464					
	M. SCHUMACHER	\$504.00	\$52.00	\$19.00	\$575.00			S. NIZIOLEK	\$126.00	\$13.00	\$19.00	\$158.00	
HAR LCT	WR-121Z-15 334434 TTH					10-11:50 AM		Meets: 9/30-11/1.					
	TBA	\$504.00	\$52.00	\$19.00	\$575.00								
HAR HYB	WR-121Z-16 337729 M					6-7:50 PM							
	M. SCHUMACHER	\$504.00	\$52.00	\$19.00	\$575.00								
ONL LCT	WR-121Z-17 334435												
	P. CRUMRINE	\$504.00	\$52.00	\$19.00	\$575.00								
ONL LCT	WR-121Z-18 334436												
	S. PESZNECKER	\$504.00	\$52.00	\$19.00	\$575.00								
ONL LCT	WR-121Z-19 334437												
	T. DODGE	\$504.00	\$52.00	\$19.00	\$575.00								
ONL LCT	WR-121Z-20 334438												
	T. DODGE	\$504.00	\$52.00	\$19.00	\$575.00								
ONL LCT	WR-121Z-21 334439												
	T. DODGE	\$504.00	\$52.00	\$19.00	\$575.00								
ONL LCT	WR-121Z-22 334440												
	R. DAVIS	\$504.00	\$52.00	\$19.00	\$575.00								
ONL LCT	WR-121Z-23 334441												
	R. DAVIS	\$504.00	\$52.00	\$19.00	\$575.00								

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

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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

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
WR-128	INTRODUCTION TO APA STYLE & DOCUMENTATION, 1 CREDIT						WRD-090	INTRODUCTORY COLLEGE READING & WRITING 1, 4 CREDITS					
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.							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: WR-121Z with a C or better							Prerequisites: Placement in WRD-090						
ONL LCT	WR-128-01	334465					OC LCT	WRD-090-01	334476 MW				10-11:50 AM
	S. PESZNECKER		\$0.00	\$0.00	\$19.00	\$19.00		W. DAWKINS		\$504.00	\$52.00	\$19.00	\$575.00
							OC LCT	WRD-090-02	334478 TTH				1-2:50 PM
								TBA		\$504.00	\$52.00	\$19.00	\$575.00
							ONL LCT	WRD-090-03	334480				
								A. WARREN		\$504.00	\$52.00	\$19.00	\$575.00
WR-140	INTRODUCTION TO WRITING CREATIVELY, 4 CREDITS						WRD-098	INTRODUCTORY COLLEGE READING & WRITING 2, 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.							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.						
Recommended Prerequisites: WRD-098 or placement in WR-121Z							Prerequisites: WRD-090 or placement in WRD-098						
OC HYB LCT	WR-140-01	334466 W				1-2:50 PM	OC LCT	WRD-098-01	334482 MW				1-2:50 PM
	TBA		\$504.00	\$52.00	\$19.00	\$575.00		W. DAWKINS		\$504.00	\$52.00	\$19.00	\$575.00
							OC LCT	WRD-098-02	334484 TTH				10-11:50 AM
								T. DONNELLY		\$504.00	\$52.00	\$19.00	\$575.00
							ONL LCT	WRD-098-03	334486				
								A. WARREN		\$504.00	\$52.00	\$19.00	\$575.00
							ONL LCT	WRD-098-04	334488				
								A. WICKERT		\$504.00	\$52.00	\$19.00	\$575.00
							ONL LCT	WRD-098-05	334490				
								J. DAVIS		\$504.00	\$52.00	\$19.00	\$575.00
							HAR LCT	WRD-098-15	334496 MW				10-11:50 AM
								TBA		\$504.00	\$52.00	\$19.00	\$575.00
WR-227Z	TECHNICAL WRITING, 4 CREDITS						WRD-098ES	INTRODUCCIÓN A LA LECTURA Y ESCRITURA DE NIVEL UNIVERSITARIO 2, 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.							Preparación para la escritura a nivel de cursos universitarios. El alumnado dialogará sobre una variedad de lecturas, en español, a nivel introductorio o pre-universitario, desarrollarán y perfeccionarán sus ensayos (máximo de tres páginas) por medio del proceso de revisión y múltiples bosquejos. Otros temas incluyen: tener confianza como lector, buscar y encontrar información, y citar las fuentes por medio de citas informales.						
Prerequisites: WR-121Z with a C or better							Prerequisites: WRD-090 o ubicación en WRD-098						
OC LCT	WR-227Z-01	334467 TTH				10-11:50 AM	ONL ESPAÑOL	WRD-098ES-01	334498				
	TBA		\$504.00	\$52.00	\$19.00	\$575.00		A. DEFREESE		\$504.00	\$52.00	\$19.00	\$575.00
OC HYB LCT	WR-227Z-02	334468 W				3-4:50 PM							
	A. WICKERT		\$504.00	\$52.00	\$19.00	\$575.00							
ONL LCT	WR-227Z-03	334469											
	L. ORMANDY		\$504.00	\$52.00	\$19.00	\$575.00							
ONL LCT	WR-227Z-04	334470											
	C. ZIMMERLY-BECK		\$504.00	\$52.00	\$19.00	\$575.00							
ONL	WR-227Z-05	334471											
	J. MCALPINE		\$504.00	\$52.00	\$19.00	\$575.00							
HAR HYB	WR-227Z-15	334472 W				6-7:50 PM							
	L. ORMANDY		\$504.00	\$52.00	\$19.00	\$575.00							
WR-241	FICTION WRITING I, 4 CREDITS												
Introduction to the theory, art and creative practice of fiction writing, with specific emphasis on short prose forms.													
Prerequisites: WRD-098 or placement in WR-121Z													
OC HYB LCT	WR-241-01	334473 T				1-2:50 PM							
	N. ROSEVEAR		\$504.00	\$52.00	\$19.00	\$575.00							
WR-270	CREATIVE NONFICTION WRITING II: FOOD WRITING, 4 CREDITS												
Learn to write uniquely and powerfully about food, from recipes to reviews to personal narrative. Bring the pen to the plate and vice versa, enriching your appreciation for sustenance and sentences at the same time.													
Recommended Prerequisites: WRD-098 or placement in WR-121Z													
ONL LCT	WR-270-01	334475											
	N. ROSEVEAR		\$504.00	\$52.00	\$19.00	\$575.00							

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

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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

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

Zoology

Z-201 GENERAL ZOOLOGY, 4 CREDITS

A lab course offering cellular and molecular basis of animal life including genetics, embryology, evolution, systematics, and protozoan diversity.

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

Corequisites: Z-201L

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

oc	Z-201-01	334392 MW	10:30 -11:50 AM			
	J. BOWN	\$504.00	\$52.00	\$55.00	\$611.00	
Corequisite: Take the following Z-201L-01.						

Z-201L GENERAL ZOOLOGY LAB, 0 CREDIT

Lab course for Z-201

Corequisites: Z-201

oc	Z-201L-01	334393 W	1-3:50 PM			
	J. BOWN	\$0.00	\$0.00	\$0.00	\$0.00	
Corequisite: Take the following Z-201-01.						

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



THIS PAGE WILL BE UPDATED FOR FALL TERM IN AUGUST

COMMUNITY EDUCATION

ACADEMIC REGULATIONS

Absences/Attendance

- You must be officially registered to attend class.
- Be sure to notify your instructor if you can't make it to your first day of class. If you don't, you may lose your seat to a student on the wait list.
- **If you stop going to class and you don't officially drop the classes from your schedule, you will be held academically and financially responsible.**
- If the college is open on a religious holiday, you may be excused through prior arrangement with your instructors.
- If you attend a college-sponsored field trip, intercollegiate function or other event, you may be excused through prior arrangement with your instructors.
- **Financial aid programs have specific attendance requirements. Contact the Financial Aid Office for more information at finaid@clackamas.edu or www.clackamas.edu.**

Academic Standing

If you are a degree/certificate student taking 6 or more credits, you are required to maintain a 2.0 GPA and complete at least 50% of your attempted credits in order to remain in good academic standing.

Active Military Duty

If you are called up for active military duty, and wish to withdraw from classes, you will be held harmless with as much as possible regard to financial and academic responsibility.

- You will be asked to officially withdraw from classes by web, fax, mail, or in person.
- Students who have already shipped out or are unable to drop classes should contact Enrollment Services: 503-594-6074 or registrar@clackamas.edu.
- You will be asked to submit a copy of your orders along with a request for a refund/credit to Enrollment Services.
- Requests to be held harmless financially and academically for a prior term enrollment must be submitted directly to the Registrar at 503-594-3370 or chris.sweet@clackamas.edu.

Adding and Dropping Classes

- You are required to obtain instructor permission (signature) once classes begin.
- You must officially drop courses you have registered for if you decide to stop going to class. **Ceasing to attend class does not constitute official withdrawal! You will be held responsible academically and financially if you do not officially drop your courses. Official withdrawal is via myClackamas or in person.**

Administrative Withdraw

- If you don't attend your class during the first two weeks of the class, instructors **MAY** drop you but **ARE NOT REQUIRED** to do so. This is called administrative withdrawal.
- If an instructor does an administrative withdrawal, you may be granted a full refund of charges for the class.
- An instructor may administratively withdraw you from a course if you are unable to demonstrate fulfillment of the stated class prerequisite or co-requisite requirement.

- If you are utilizing financial aid or veterans benefits, you may owe a repayment. Please check with these offices for additional information regarding your enrollment status and entitlement to benefits.
- If you are administratively withdrawn from a course, you will be notified by Enrollment Services.

Audit

An audit allows you to attend class without responsibility for a grade. Audit carries no credit, doesn't contribute toward full-time status and does not meet full-time status required for veterans, Social Security, financial aid or athletic eligibility. All other college policies apply including registration, tuition payment, refunds, and attendance. If you decide to change your status from audit to credit or credit to audit, notify your instructor prior to the end of the sixth week of the term.

If you are a financial aid student, please notify the Financial Aid Office if you change from a credit to an audit or receive an audit grade. You may be required to pay back funds. Audit classes do not qualify for financial aid.

Variable Credit

Some courses are eligible for variable credit. These courses are noted in the Schedule of Classes with a "V" in the credit column. This option allows you to pursue an individualized learning program. You must register for the number of credits you expect to earn in that term as determined with your instructor. Changes to variable credit must be processed through registration by the end of the 10th week of the term.

Wait List

Some CCC classes utilize a wait list option. If the class you want to register for is full and it has a wait list:

- Add your name to the wait list via myClackamas or in person.
- When a spot opens up, you will receive an email in your @student.clackamas.edu email. You will have 48 hours to respond to the email.
- To add the class, go to "Manage my wait list" within myClackamas to register.
- You are responsible academically and financially if you no longer want to be in the class and don't drop it.

The following conditions may affect your eligibility for wait list placement:

- Wait list capacity has been met.
- There is a "hold" on your student record that restricts registration.
- There are course restrictions in place such as "instructor consent."
- You are already enrolled in another section of the same course.
- There is a time conflict with the course you have selected.
- You have reached the maximum number of credits allowed (18) without additional authorization.
- Class has already begun.

FERPA

Directory information about your student record may be released without your permission under the Family Educational Rights & Privacy Act (FERPA). CCC will release the following directory information:

- Full name
- Enrollment status
- Enrollment dates
- Verification of certificate, degree, or honors and awards
- Residency status
- Major/program
- Athletic participation

No other information will be released without your permission. If you have questions regarding FERPA, please contact Enrollment Services, 503-594-6074 or go to our website: www.clackamas.edu



Student Right to Know and Other Notification Requirements

Clackamas Community College information regarding academic programs, student completion/graduation rates, financial assistance, athletics, institutional financial support, privacy rights (FERPA), campus security, crime statistics and other Student Right to Know items may be obtained by viewing our annual college catalog or by going to www.clackamas.edu. Printed copies of this information may also be obtained by contacting Enrollment Services at 503-594-6074 or registrar@clackamas.edu.



Clackamas Community College is accredited by the Northwest Commission on Colleges and Universities.

Accreditation of an institution of higher education by the Northwest Commission on Colleges and Universities indicates that it meets or exceeds criteria for the assessment of institutional quality evaluated through a peer review process. An accredited college or university is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the Northwest Commission on Colleges and Universities is not partial but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding an institution's accredited status by the Northwest Commission on Colleges and Universities should be directed to the administrative staff of the institution. Individuals may also contact:

Northwest Commission on Colleges and Universities
8060 165th Avenue N.E., Suite 100
Redmond, WA 98052
(425) 558-4224
www.nwccu.org

HOURS CCC Oregon City Campus

THIS PAGE WILL BE UPDATED FOR FALL TERM IN AUGUST

CCC BOOKSTORES

Oregon City campus – in McLoughlin Hall, ground floor
503-594-6500

IN-STORE CUSTOMERS

Payment types:

- Cash
- Debit / credit
- Financial Aid – 3rd Party Account or Student Account

ONLINE ORDERS can be shipped out (for a fee) or held for customer pick-up. Credit card payment required at time of order. Email notifications will be sent when order is shipped or is ready to be picked up.

Fall 2024 dates to remember:

Textbook sales begin online and in-store – Sept. 3, 2024
Last day for textbook refunds –

Sept. 27 without drop; Oct. 18 with proof of drop
Rental books due back – December 6, 2024

For campus maps, store hours, shipping costs, refund/returns policies and ordering details, see <http://clackamas.bncollege.com> or call the bookstore at 503-594-6500. We will be happy to answer your questions personally!

Low-Cost Texts

Low-cost text (LCT) course sections use textbooks and/or other course materials that have a minimal cost. The total cost of textbooks and/or materials* in every low-cost course will be \$40 or less. Identify CCC's low-cost courses by looking for the **LCT** icon.

**Included in the cost calculations are: required textbooks and other text-based materials, workbooks, lab manuals, online homework software (e.g. mymathlab), and codes or publisher-provided curricular materials for students. Printing costs are not included, unless a printed version is required for the course. Excluded from the cost calculations are: art supplies, calculators, software, course and student fees or equipment, and optional costs.*

DISCLAIMER: Clackamas Community College makes every effort that the low-cost sections identified in this printed schedule are accurate at the time of publication. However, review the online schedule or contact the course instructor for the most up-to-date information on textbook and material costs.

College Closure Information



ANNOUNCEMENTS

In the event of hazardous weather or other emergencies, the following will carry school schedule changes and college closure information:

- Clackamas website, www.clackamas.edu
- Local radio and television broadcasts and websites
- Recorded phone message on the college's main number: 503-594-6000
- Facebook, [Facebook.com/ClackamasCommCollege](https://www.facebook.com/ClackamasCommCollege)
- Twitter, @ClackCollege

COLLEGE CLOSURE LOCATIONS

In the event that the college is closed due to adverse weather conditions, all college campuses and centers will close. In the event of a non-weather related emergency closure (e.g., loss of electricity), only the affected campus will close.

COLLEGE CLOSURE TIMES

Emergency closures due to hazardous weather or other emergencies:

Day Closure – Offices are closed and classes are canceled unless exceptions are announced. Shuttle service is also canceled.

Late Opening – The college will open at 10 a.m. All classes, events and activities on all CCC campuses are canceled until 10 a.m.

Early Closure – All classes, activities and events starting at or after 4 p.m. will be canceled on all campuses. Campuses will remain open until 5 p.m.

CLOSURES DURING FINAL WEEK

One day closure during final week:

Monday, Tuesday and/or Wednesday daytime finals will be rescheduled for Thursday during the same time period as originally scheduled.

Second day closure during final week:

Finals will be rescheduled for Friday during the same time period as originally scheduled.

Evening closure during final week:

Finals will be rescheduled for Friday evening during the same time period as originally scheduled.

Note: These are general guidelines. Exceptions may occur.

EMERGENCY NOTIFICATIONS

CCC students are automatically enrolled in Clackamas Community College's phone, text message and email emergency notification system – Rave Alert.

The Rave Alert system will NOT charge fees, however standard or other messaging charges apply depending on wireless carrier plan and subscription details.

FACULTY ADVISORS

Undecided or need more information
about your program of study?

Faculty advisors have the answers.

PROGRAM	ADVISOR	PHONE	ROOM	EMAIL
Accounting	Joan San-Claire	503-594-3013	S124	joan.san-claire@clackamas.edu
Administrative Assistant/Professional	Beverly Forney	503-594-3115	S129	beverlyf@clackamas.edu
Adult High School Diploma	Lisa Nielson	503-594-3401	D144	lisan@clackamas.edu
Anthropology	Keely Baca	503-594-3409	M223	keely.baca@clackamas.edu
Apprenticeship	Katelyn Karch	503-594-6201	T128	kkarch@clackamas.edu
Arboriculture	Chris Konieczka	503-594-6213	C124	chrisk@clackamas.edu
Art	Nora Brodnicki	503-594-3036	AC106	norab@clackamas.edu
Automotive	Dustin Bates	503-594-3973	B259	dustinb@clackamas.edu
Business Administration	Sharon Parker	503-594-3075	S123	sharonp@clackamas.edu
Career Technical Education Licensure Prep.	Megan Helzerman	503-594-0976	F108c	meganh@clackamas.edu
Clinical Lab Assistant/Phlebotomy	Marilyn Braught	503-594-0634	H350	marilyn.braught@clackamas.edu
Communications/Speech	Kerrie Hughes	503-594-3155	N137	kerrieh@clackamas.edu
Computer Science: Transfer	Rich Albers	503-594-3166	S126	richa@clackamas.edu
Computer Science: Application Support & Web Design	Debra Carino	503-594-3170	S125	dcarino@clackamas.edu
Computer Science: Network Administration	Rick Carino	503-594-3167	S179	rcarino@clackamas.edu
Computer Science: Transfer	Jen Miller	503-594-3138	S127	jen.miller@clackamas.edu
Criminal Justice/Corrections	Joanna Crawford	503-594-6229	HW315	joanna.crawford@clackamas.edu
Customized Training & Development Services	Staff	503-594-3200	P104	training@clackamas.edu
Dental Assistant	Kari Hiatt	503-594-0674	H385	kari.hiatt@clackamas.edu
Digital Media Communications	Nora Brodnicki	503-594-3036	AC106	norab@clackamas.edu
Early Childhood Education	Dawn Hendricks	503-594-6158	F116	dawn.hendricks@clackamas.edu
Economics	Derek Lougee	503-594-3408	M213	derek.lougee@clackamas.edu
Education	Laurette Scott	503-594-3840	F115	laurette@clackamas.edu
Educación Infantil y Estudios Familiares	Ada Echevarria	503-594-1828	F112	ada.echevarria@clackamas.edu
Electronics and Microelectronics	Mike Mattson	503-594-3322	I217I	mattsonm@clackamas.edu
Emergency Medical Technology	Tana Sawzak	503-594-6025	H382	tanass@clackamas.edu
Engineering	Eric Lee	503-594-6163	DJ212	elee@clackamas.edu
Engineering	Matt LaForce	503-594-3148	DJ210	laforce@clackamas.edu
English	Amanda Coffey	503-594-3257	RR242	amandac@clackamas.edu
English for Speakers of Other Languages	Laura Joyce	503-594-3718	D146	lauraj@clackamas.edu
Environmental Safety and Health	Mike Mattson	503-594-3322	I217I	mattsonm@clackamas.edu
Fire Science	Jordan Gulley	503-594-3683	C141	wildlandfire@clackamas.edu
GED/ABE	Lisa Nielson	503-594-3401	D144	lisan@clackamas.edu
Geography	Derek Lougee	503-594-3408	M213	derek.lougee@clackamas.edu
Gerontology	Yvonne Smith	503-594-3207	HW315	yvonnesh@clackamas.edu
GIS	Angela Armen	503-594-3678	M223	angela.armen@clackamas.edu
History	Jackie Flowers	503-594-3405	M217	jackief@clackamas.edu
Horticulture	Chris Konieczka	503-594-6213	C124	chrisk@clackamas.edu
Human Resource Management	Michael Moiso	503-594-3770	S128	mmoiso@clackamas.edu
Human Services	Yvonne Smith	503-594-3207	F119	yvonnesh@clackamas.edu
Humanities	Derek Lougee	503-594-3408	M213	derek.lougee@clackamas.edu
Humanities	Amanda Coffey	503-594-3257	RR237	amandac@clackamas.edu
Industrial Technology	Mike Mattson	503-594-3322	I217I	mattsonm@clackamas.edu
Journalism	Melissa Jones	503-594-3261	RR132	melissaj@clackamas.edu
Landscape	Chris Konieczka	503-594-6213	C124	chrisk@clackamas.edu
Management	Sharon Parker	503-594-3075	S123	sharonp@clackamas.edu
Marketing	Beverly Forney	503-594-3115	S129	beverlyf@clackamas.edu
Math	Kelly Mercer	503-594-6154	S102	kelly.mercer@clackamas.edu
Medical Assistant	Sarah Parker	503-594-6497	H381	sarah.parker@clackamas.edu
Music	Lars Campbell	503-594-3384	N131	lars.campbell@clackamas.edu
Music Technology	David Badstubner	503-594-6368	N131	david.badstubner@clackamas.edu
Nursing	Carol Dodson	503-594-0654	H280	carold@clackamas.edu
Organic Farming	Chris Konieczka	503-594-6213	C124	chrisk@clackamas.edu
Philosophy	Derek Lougee	503-594-3408	M213	derek.lougee@clackamas.edu
Physical Education/Health	Jim Martineau	503-594-3271	R101c	martineau@clackamas.edu
Political Science	Derek Lougee	503-594-3408	M213	derek.lougee@clackamas.edu
Pre-Professional (medical, dental, pharmacy)	Eden Francis	503-594-3352	P124k	edenf@clackamas.edu
Project Management	Frank Corona	503-594-6498	S130	francisco.corona@clackamas.edu
Psychology	Jessica Kissler	503-594-6625	M210	jessica.kissler@clackamas.edu
Religion	Derek Lougee	503-594-3408	M213	derek.lougee@clackamas.edu
Reading/Study Skills	Lisa Nielson	503-594-3401	D144	lisan@clackamas.edu
Renewable Energy	Mike Mattson	503-594-3322	I217I	mattsonm@clackamas.edu
Retail Management	Beverly Forney	503-594-3115	S129	beverlyf@clackamas.edu
Science	Kelly Mercer	503-594-6154	S102	kelly.mercer@clackamas.edu
Search and Rescue	Matt Adams	503-594-3677	T125	matt.adams@clackamas.edu
Skills Development	Lisa Nielson	503-594-3401	D144	lisan@clackamas.edu
Small Business Development Center	Rob Campbell	503-594-0733	HW160E	bizcenter@clackamas.edu
Social Science	Derek Lougee	503-594-3408	M213	derek.lougee@clackamas.edu
Sociology	Erich Pfeifer	503-594-3802	M225	erichp@clackamas.edu
Theatre Arts	Chris Whitten	503-594-3153	N152	cwhitten@clackamas.edu
Undecided Major of Study	Student Support Services	503-594-3475	WC	advising@clackamas.edu
Uncrewed Aircraft Systems	Angela Armen	503-594-3678	M223	angela.armen@clackamas.edu
Water & Environmental Technology	Matt LaForce	503-594-3148	DJ210	laforce@clackamas.edu
Water & Environmental Technology	Jim Nurmi	503-594-3813	DJ211	jamesn@clackamas.edu
Welding	Dustin Bates	503-594-3973	B259	dustinb@clackamas.edu
Women's Studies	Derek Lougee	503-594-3408	M213	derek.lougee@clackamas.edu
World Languages	Ernesto Hernandez	503-594-3710	M245	ernesto.hernandez@clackamas.edu

WHERE TO CALL

CCC'S MAIN PHONE NUMBER IS 503-594-6000.

BLDG.*	DEPARTMENT/OFFICE	PHONE
ABE/GED		
D	Oregon City	503-594-3027
H	Harmony	503-594-3027
D	Adult High School Diploma – Oregon City	503-594-3027

Academic Advising

WC	Oregon City	503-594-3475
H	Harmony	503-594-0623
W	Wilsonville	503-594-0959

Bookstore

M	Bookstore – Oregon City	503-594-6500
---	-------------------------	--------------

Testing/Assessment Center

WC	Oregon City	503-594-3283
H	Harmony	503-594-0636
W	Wilsonville	503-594-0940

B	Account Receivable	503-594-6068
WC	Admissions & Recruitment/Welcome Center	503-594-3284
WC	Advanced College Credit	503-594-3161
T	Apprenticeship	503-594-3031
C	Arboriculture	503-594-3292
AC	Art	503-594-3034
WC	Associated Student Government	503-594-3040
R	Athletics	503-594-3043
B	Automotive	503-594-3047
S	Business	503-594-3071
HW	Business Development Center	503-594-0738
B	Business Office	503-594-3085
WC	Cafeteria	503-594-6091
WC	Campus Tours	503-594-6249
WC	Career Center	503-594-6001
I	Career Technical Education	503-594-3441
F	Child Care Center	503-657-9795
	Child Care Info & Referral	503-253-5000
P	The Clackamas Print Newspaper	503-594-3261
M	College Safety Office	503-594-6650
N	Communication Studies	503-594-6489
H	Community Education	503-594-0627
	Community Garden	503-594-3040
D	Computer Lab (Academic)	503-594-6632
S	Computer Lab (Open)	503-594-6632
S	Computer Science	503-594-3071
WC	Cooperative Work Experience	503-594-3511
D	Cougar Connect Desk	503-594-6632
WC	Counseling	503-594-3176
HW	Criminal Justice/Corrections	503-594-3203
P	Customized Training & Development	503-594-3200
AC	Digital Media Communications	503-594-3034
WC	Disability Resource Center	503-594-6357
F	Education and Early Childhood Education	503-594-3203
I	Electronics & Microelectronics	503-594-3318
T	Emergency Management	503-594-3539
DJ	Engineering	503-594-3345

BLDG.*	DEPARTMENT/OFFICE	PHONE
RR	English	503-594-3254
D	English for Speakers of Other Languages	503-594-3234
WC	Enrollment Services	503-594-6074
ELC	Environmental Learning Center	503-594-3015
B	Environmental Safety & Health	503-594-3322
G	Facility Scheduling-Oregon City	503-594-3308
H	Facility Scheduling-Harmony	503-594-0620
W	Facility Scheduling-Wilsonville	503-594-0970
WC	Financial Aid and Scholarship Office	503-594-6082
T	Fire Science (Wildland Fire)	503-594-3539
HW	Gerontology	503-594-3203
T	GIS	503-594-6495
WC	Graduation Services	503-594-6651
R	Gym	503-594-3043
H	Harmony Campus Registration/Information	503-594-0620
H	Health Sciences	503-594-0650
WC	High School Connections	503-594-3161
C	Horticulture	503-594-3292
B	Human Resources/Employment Opportunity	503-594-3458
F	Human Services	503-594-3203
I	Industrial Technology	503-594-3318
B	Instructional Media Services	503-594-3500
C	Landscape	503-594-3292
D	Learning Center	503-594-6191
D	Library - Circulation	503-594-6323
D	Library - Reference	503-594-6042
WC	Life & Career Options	503-594-3176
S	Math	503-594-3395
D	Moodle Help	503-594-6632
N	Music	503-594-3337
H	Nursing	503-594-0650
WC	Office of Education Partnerships	503-594-3161
C	Organic Farming	503-594-3292
S	Online Learning & Educational Technology	503-594-6618
P	Pauling Center Gallery	503-594-3034
R	Physical Education	503-594-3271
RR	President's Office	503-594-3002
WC	Registration and Records	503-594-6074
I	Renewable Energy Technology	503-594-3318
DJ	Science	503-594-3345
D	Skills Development	503-594-3233
M	Social Science	503-594-3403
WC	Student Life & Leadership	503-594-3040
WC	Student Support Services	503-594-3475
N	Theater/Performing Arts	503-594-3153
D	Tutoring Services	503-594-6191
WC	Veterans Educational Benefits	503-594-3438
WC	Veterans Education & Training Center	503-594-3438
RR	Vice President, College Services	503-594-3010
RR	Vice President, Instructional & Student Services	503-594-3020
DJ	Water & Environmental Technology	503-594-3345
T	Welding	503-594-3046
W	Wilsonville Registration/Information	503-594-0940
P	Workforce Development Services	503-594-6246
M	World Languages	503-594-3403
D	Writing Center	503-594-6275

* Find building code key on the campus map on the back cover of this schedule.

COLLEGE SAFETY

In an emergency or life-threatening situation, dial **911** from any phone.
College Safety Office, ext. **6234** or **6650** or call **971-563-0101**.



SERVICES FOR STUDENTS



We've got you covered.

The Student Life & Leadership Office
in Room 160 of the Wacheno Welcome
Center offers lots of services to help you.

Free Food Pantry: A free pantry that offers food and toiletries for students. Donations accepted! For more information, visit our website:
<https://www.clackamas.edu/campus-life/campuses-buildings-hours/free-food-pantry>.

Grants: There are grants available for child care, textbooks, fees, transportation and veterans gas cards and course materials. Grants are awarded each term to students who have demonstrated need. Fill out an application online at
www.clackamas.edu/asg/grants.

Clubs: Do you have a special interest? Want to meet new people? CCC offers many clubs for students. Find out more in Student Life & Leadership.

Lost & Found: Located in the Student Government office in WC 160.

Fax & Phone: Fax service is available to students in the Student Life Office. There is also a phone you can use, free of charge, in the Wacheno Welcome Center.

Register to Vote: It's simple and fast. Voter registration links for Oregon and Washington available on the Student Government webpage:
www.clackamas.edu/ASG



TRANSPORTATION OPTIONS

Save money on your CCC commute!

Clackamas Community College connects students with a variety of transportation resources including fare assistance, ClackCo free shuttle service, carpooling matching, and multiple bus options.

The latest information and additional details can be found at www.clackamas.edu/transportation.

CLACKAMAS COUNTY CONNECTS FREE SHUTTLES

Free shuttles in Oregon City, Clackamas Town Center/Harmony, Clackamas Industrial Area, and Estacada. Shuttle routes can be found at <https://www.clackamas.us/h3s/connects-shuttle>

CARPOOL MATCHING SERVICE

Find a carpool partner at GetThereOregon.org. Sign up using your @student.clackamas.edu email address.

PUBLIC TRANSPORTATION

Clackamas Community College is serviced by a number of bus lines. Plan your trip on Google Maps.

NEAR CLACKAMAS TOWN CENTER?

Ride the CCC Xpress or Clackamas Industrial Area Shuttles. Plan your route at rideclackamas.org.



DRIVE?

Find a carpool partner at GetThereOregon.org.



RIDE THE BUS?

CCC has partnered with TriMet to provide reduced or free TriMet fares. Email transportation@clackamas.edu or go to the Wacheno Welcome Center for more info.



#ClackCo

CONNECTS

CCC Xpress

Southbound

A	Clackamas Town Center	5:55	7:15	8:35	9:55	11:55	1:15	2:35	3:55	5:55	7:15
B	CCC Harmony Campus	6:05	7:25	8:45	10:05	12:05	1:25	2:45	4:05	6:05	7:25
C	Oregon City Transit Center	6:25	7:45	9:05	10:25	12:25	1:45	3:05	4:25	6:25	7:45
D	Clairmont Dr. CCC Campus	6:40	8:00	9:20	10:40	12:40	2:00	3:20	4:40	6:40	8:00

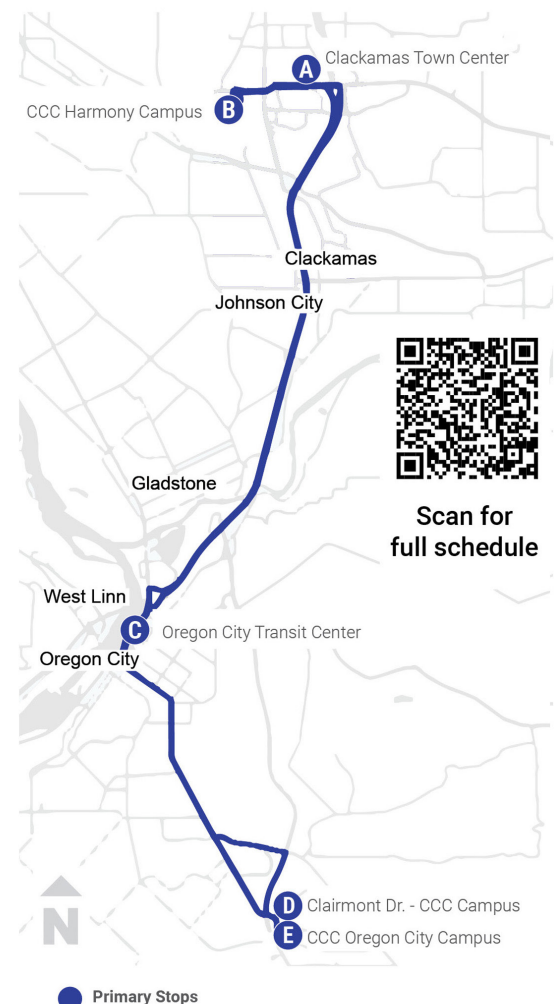
Northbound

E	CCC Oregon City Campus	6:45	8:05	9:25	10:45	12:45	2:05	3:25	4:45	6:45	8:05
B	CCC Harmony Campus	7:00	8:20	9:40	11:00	1:00	2:20	3:40	5:00	7:00	8:20
A	Clackamas Town Center	7:10	8:30	9:50	11:10	1:10	2:30	3:50	5:10	7:10	8:30

The CCC Xpress Shuttle is a **free** "deviated fix-route" service. Can't make it to the main bus stop or route? **Call 24 hours in advance** to make arrangements and check availability to be picked up or dropped off within 3/4 mile from the route or in the deviation zone. You may also signal/flag the bus to get on or off the bus in-between stops.

The CCC Xpress Shuttle operates 7 days a week. The Clackamas Industrial Area Shuttle does not operate on New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, or Christmas Day.

Schedule Times in **Bold** = PM





BUILDING CODES and SERVICES

Art Center (AC)

Barlow Hall (B)
• Human Resources

Clairmont Hall (C)

DeJardin Hall (DJ)

Dye Learning Resource Center (D)

- Academic Computer Lab
- Library
- Moodle Help
- Tutoring

Environmental Learning Center (ELC)

Family Resource Center (F)

- Child Development Center

Gregory Forum (G)

Holden Industrial Technology Center (I)

Lewelling (L)

- Campus Services
- Shipping & Receiving

McLoughlin Hall (M)

- Bookstore
- College Safety

Niemeyer Center (N)

- Alexander Art Gallery
- Osterman Theatre

Pauling Center (P)

- Connections with Business and Industry
- Workforce Services

Randall Hall (R)

- Athletics Center

Roger Rook Hall (RR)

- Foundation
- President's Office

Streeter Hall (S)

- Online Learning & Educational Technology

Training Center (T)

Wacheno Welcome Center (WC)

- Admissions Center
- Advising
- Career Services
- Cougar Café
- Disability Resource Center
- Education Partnerships
- Financial Aid
- Multicultural Center
- Registration/Records
- Student Accounts
- Student Government
- Testing Center
- VET Center

CCC CAMPUS SITES

CCC at Harmony Community Campus

7738 SE Harmony Road
Milwaukie, OR 97222

CCC Oregon City

19600 Molalla Ave.
Oregon City, OR 97045

CCC Wilsonville Campus

29353 SW Town Center Loop E
Wilsonville, OR 97070