

Spring term classes begin March 31 • www.clackamas.edu • Go Far, Close to Home.

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3 Convenient Campuses

Oregon City 19600 Molalla Ave. Oregon City, OR 97045

Wilsonville

29353 SW Town Center Loop E. Wilsonville, OR 97070

Harmony

7738 SE Harmony Road Milwaukie, OR 97222

Non-Discrimination

Clackamas Community College does not discriminate on the basis of race, color, religion, gender, sexual orientation, marital status, age, national origin/ancestry, disability, family relationship or any other protected status in accordance with applic-able 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 *	SPRING TERM 2025	SUMMER TERM 2025	FALL 2025
Financial aid: All required CCC financial aid documentation due to ensure funding for term	Jan. 6	March 31	June 23
Registration begins	Feb. 24	May 12	May 19
Classes begin	March 31	June 23	Sept. 29
Last day to add classes without instructor consent	Instructor consent required once course begins		
Last day to drop a class with a refund (see p. 5 for more info)	April 13	July 6	Oct. 12
Last day to drop classes and receive a "W" automatically	May 23	August 15	Nov. 21
Last day to submit petition for graduation	May 9	August 1	Nov. 7
Last day to change grading option	June 6	August 29	Dec. 5
Account balance due: \$100 non-payment fee applied if not paid	May 9	August 4	Nov. 7
Final week	June 9-13	see syllabus	Dec. 8-13
Last day of term	June 14	Sept. 6	Dec. 13
Commencement: GED & Adult High School Diploma / College Certificate and Degree	Friday evening, June 13, 2025		

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

HOLIDAYS AND CAMPUS CLOSURES

SPRING TERM: May 26 Memorial Day

SUMMER TERM: June 19 Juneteenth, **July 3** Independence Day

FALL TERM: Sept. 1 Labor Day, Nov. 11 Veterans Day, Nov. 27-28 Thanksgiving, Dec. 24-25 Winter Holiday

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.

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!

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.

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.

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



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.



REGISTER FOR CLASSES.

For help choosing and registering for your classes, visit our Advising page to schedule an appointment.



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.

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.



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



REVIEW YOUR EDUCATION PLAN with an academic advisor.

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.



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



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

Como Inscribirse www.clackamas.edu/espanol

PAYING FOR CLASSES AT CCC



How much will I owe? Tuition and Fees

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

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

ТҮРЕ	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 May 9 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.

Financial Aid questions?

Email us at finaid@clackamas.edu

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
- 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.

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.

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, Feb. 24, 2025	Noon
80+	Tuesday, Feb. 25, 2025	8 a.m.
60-79	Tuesday, Feb. 25, 2025	Noon
40-59	Wednesday, Feb. 26, 2025	8 a.m.
30-39	Wednesday, Feb. 26, 2025	Noon
20-29	Thursday, Feb. 27, 2025	8 a.m.
6-19	Thursday, Feb. 27, 2025	Noon
1-5	Friday, Feb. 28, 2025	8 a.m.
Open Registration	Friday, Feb. 28, 2025	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 <u>www.clackamas.edu</u> 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.



GRADUATION



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 graduation ceremony which includes GED/ Adult High School Diploma students and certificate and degree graduation students will be held Friday evening, June 13, 2025. Information 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 Cecilia Bracale 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

HARMONY COMMUNITY CAMPUS HOURS

Hours are subject to change. Please call 503-594-0620 or check www.clackamas.edu/hours for updated information.

Campus is closed May 26.

Building Hours Mar. 31-Jun. 14	M-F	7 a.m10 p.m.
Student Services		
Mar. 31-Apr. 3	M-Th F	9 a.m7 p.m. Remote Services
Apr. 7-Jun. 14	M-Th F	9 a.m5:45 p.m. Remote Services
Advising		
Mar. 31-Apr. 3	M-W Th F	10 a.m6:15 p.m. 10 a.m4:30 p.m. Remote Services
Mar. 31-Apr. 3	M T-Th F	Remote Services 10 a.m4:30 p.m. Remote Services
Testing & Assess	nent	
Mar. 31-Apr. 3	TBD	
ITS Mar. 31-Apr. 3	TBD	

Tutoring Services

See posted hours on web, www.clackamas.edu/tutoring

CCC Wilsonville Campus

29353 SW Town Center Loop East, Wilsonville, OR 97070

WILSONVILLE HOURS

Hours are subject to change. Please call 503-594-0940 or check www.clackamas.edu/hours for updated information.

Campus is closed May 26.

Building Hours Mar. 31-June 14 Student Services	M-Th	7 a.m10 p.m.			
By appointment only wilsonvilleinfo@clack		all 503-594-0940 or email			
Mar. 31-June 14 Advising Center	M-Th	8:30 a.m6:30 p.m.			
Advising by appointment. Please call 503-594-0959 or e-mail apprenticeship.advising@clackamas.edu					
Mar. 31-June 14	MWThF	by appointment			
Testing & Assessment Center					
Testing by appointment. Please call 503-594-0940 or e-mail testing.wilsonville@clackamas.edu					
Mar. 31-June 14	M-Th	9 a.m5 p.m.			



Vending Machines, located in the Harmony East lobby and on Harmony West 2nd floor, are stocked with hot & cold drinks, snacks and a rotating assortment of breakfast items, sandwiches, burritos, hummus & veggie trays in the chilled cooler. There are microwaves available for student use in Harmony East on the 1st and 2nd floors.



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

CLACKAMAS IN YOUR COMMUNITY

Credit and non-credit courses offered at Clackamas Community College sites near you Spring 2025

Harmony Community Campus

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

Biology

Diology		
BI-112	GENERAL BIOLOGY FOR HEALTH SCIENCES	4 CREDITS
BI-112L	GENERAL BIOLOGY FOR HEALTH SCIENCES LAB	0 CREDIT
BI-120	INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY	4 CREDITS
BI-120L	INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY LAB	0 CREDIT
BI-233	HUMAN ANATOMY & PHYSIOLOGY III	4 CREDITS
BI-233L	HUMAN ANATOMY & PHYSIOLOGY III LAB	0 CREDIT
Chemistry		
CH-112	CHEMISTRY FOR HEALTH SCIENCES	4 CREDITS
CH-112L	CHEMISTRY FOR HEALTH SCIENCES LAB	0 CREDIT
Communic	ation Studies	
COMM-111Z	PUBLIC SPEAKING	4 CREDITS
COMM-218Z	INTERPERSONAL COMMUNICATION	4 CREDITS
Criminal Ju	istice	
CJA-101	CRIMINOLOGY	4 CREDITS
CJA-130	INTRODUCTION TO CORRECTIONS	3 CREDITS
CJA-200	COMMUNITY POLICING	3 CREDITS
CJA-213	INTERVIEW & INTERROGATION	3 CREDITS
CJA-215	SEXUAL ABUSE AND HUMAN TRAFFICKING	3 CREDITS
CJA-216	IMPLICIT BIAS AND POLICING	3 CREDITS
CJA-250	REPORTING, RECORDING & TESTIFYING	4 CREDITS
CJA-270	CRIMINAL JUSTICE CAPSTONE	3 CREDITS
CJA-280	CRIMINAL JUSTICE/CORRECTIONS/CWE	2-6 CREDITS
CJA-281	CRIMINAL JUSTICE/CORRECTIONS/CWE	2-6 CREDITS

Dental Assistant

Dental Ass	sistant	
DA-106	CLINICAL PROCEDURES III	2 CREDITS
DA-106L	CLINICAL PROCEDURES III LAB	1 CREDIT
DA-130	CLINICAL PRACTICUM III	8 CREDITS
DA-135	PHARMACOLOGY/MEDICAL EMERGENCIES	2 CREDITS
DA-145	DENTAL OFFICE PROCEDURES	2 CREDITS
Economics	5	
EC-202	PRINCIPLES OF ECONOMICS: MACRO	4 CREDITS
Emergenc	y Medical Technology	
EMT-101	EMERGENCY MEDICAL TECHNICIAN PART I	6 CREDITS
EMT-102	EMERGENCY MEDICAL TECHNICIAN PART II	6 CREDITS
EMT-105	INTRODUCTION TO EMERGENCY MEDICAL SERVICES	3 CREDITS
EMT-109	EMERGENCY RESPONSE COMMUNICATION/DOCUMENTATIO N	2 CREDITS
English for	r Speakers of Other Languages	
ESOL-012	BEGINNING ESOL	0 CREDIT
ESOL-013	BEGINNING ESOL	0 CREDIT
ESOL-015	BEGINNING READING, WRITING, AND GRAMMAR	0 CREDIT
ESOL-020	UPPER BEGINNING GRAMMAR	0 CREDIT
ESOL-024	UPPER BEGINNING READING & WRITING	0 CREDIT
ESOL-030	INTERMEDIATE GRAMMAR A	0 CREDIT
ESOL-031	INTERMEDIATE GRAMMAR B	0 CREDIT
ESOL-032	INTERMEDIATE CONVERSATION 1	0 CREDIT
ESOL-034	INTERMEDIATE READING & WRITING	0 CREDIT
ESOL-042	UPPER INTERMEDIATE CONVERSATION 1	0 CREDIT
ESOL-044	UPPER INTERMEDIATE READING & WRITING	0 CREDIT
ESOL-046	EDITING FOR BETTER WRITING	0 CREDIT
ESOL-051	ADVANCED GRAMMAR B	0 CREDIT
ESOL-052	ADVANCED COMMUNICATION SKILLS 1	0 CREDIT
ESOL-054	ADVANCED READING & WRITING	0 CREDIT
ESOL-082	ASSESS/EVALUATE NEW STUDENTS	0 CREDIT
ESOL-083	EDUCATIONAL PLANNING FOR RETURNING STUDENTS	0 CREDIT
Environme	ental Science	
ESR-173	INTRODUCTION TO SUSTAINABILITY	4 CREDITS
ESR-173L	INTRODUCTION TO SUSTAINABILITY LAB	0 CREDIT

Food & Nu	itrition	
FN-110	PERSONAL NUTRITION	3 CREDITS
FN-225	NUTRITION	4 CREDITS
General D	evelopment Education (GED)	
GED-011	GED IN ESPAÑOL	0 CREDIT
GED-015	GED PREPARATION	0 CREDIT
GED-049	LATINO GED & LIFE SKILLS	0 CREDIT
Geology		
G-103	GENERAL GEOLOGY	4 CREDITS
G-103L	GENERAL GEOLOGY LAB	0 CREDIT
G-203	GENERAL GEOLOGY	4 CREDITS
G-203L	GENERAL GEOLOGY LAB	0 CREDIT
Gerontolog	Ĵŷ	
GRN-183	DEATH AND DYING	3 CREDITS
GRN-280	GERONTOLOGY/CWE	2-6 CREDITS (VAR)
Health		
HE-163	BODY & DRUGS I: INTRODUCTION TO ABUSE & ADDICTION	3 CREDITS
Health Pro	fessions	
HP-100	HEALTHCARE PROVIDER BLS/CPR, FIRST AID/BLOODBORNE PATHOGENS	1 CREDIT
HP-110	MEDICAL TERMINOLOGY	4 CREDITS
HP-120	INTRODUCTION TO HEALTH SCIENCES	3 CREDITS
High Scho	ol Diploma (AHSD)	
XASE-0001	BASIC ESSENTIAL SKILLS SUPPORT	0 CREDIT
Human Se	rvices	
HS-156	CONDUCTING HUMAN SERVICE INTERVIEWS	3 CREDITS
HS-216	GROUP COUNSELING SKILLS	3 CREDITS
Mathemati	cs	
MTH-020ES	FUNDAMENTOS DE ARITMÉTICA II	4 CREDITS
MTH-060	ALGEBRA I	4 CREDITS
MTH-065	ALGEBRA II	4 CREDITS
MTH-095	ALGEBRA III	4 CREDITS
MTH-212	FUNDAMENTALS OF ELEMENTARY MATH II	4 CREDITS
Medical As	ssistant	
MA-100	INTRODUCTION TO MEDICAL ASSISTING	2 CREDITS
MA-166	PHLEBOTOMY II	1 CREDIT
MA-166L	PHLEBOTOMY II LAB	1 CREDIT
MA-174	CLINICAL LAB PROCEDURES II	1 CREDIT

CLINICAL LAB PROCEDURES II LAB

MA-174L

1 CREDIT

MA-178	MEDICAL ASSISTANT PRACTICUM	9 CREDITS						
Medical Bil	Medical Billing and Coding							
MBC-116	INSURANCE BILLING AND REIMBURSEMENT II	4 CREDITS						
MBC-125	ICD-10 CODING I	2 CREDITS						
MBC-126	CPT/HCPCS CODING I	4 CREDITS						
Nursing								
NRS-112	FOUNDATIONS OF NURSING IN	2 CREDITS						
	ACUTE CARE I							
NRS-112C	FOUNDATIONS OF NURSING IN ACUTE CARE I CLINICAL	4 CREDITS						
NRS-224	INTEGRATIVE PRACTICUM	2 CREDITS						
NRS-224C	INTEGRATIVE PRACTICUM CLINICAL	7 CREDITS						
NRS-233	PATHOPHYSIOLOGICAL PROCESSES II	3 CREDITS						
NUR-100	NURSING ASSISTANT I	6.5 CREDITS						
NUR-100C	NURSING ASSISTANT I CLINICAL	0 CREDIT						
Phlebotom	у							
PHB-110	FUNDAMENTALS OF PHLEBOTOMY	5 CREDITS						
PHB-112	PHLEBOTOMY TECHNIQUES	2 CREDITS						
PHB-115	PROFESSIONALISM FOR PHLEBOTOMISTS	1 CREDIT						
Religion								
R-212	HISTORY OF THE NEW TESTAMENT	4 CREDITS						
Small Busi	ness Development Center							
SBM-010	REAL ESTATE BROKER LICENSE	0 CREDIT						
SBM-011	PROPERTY MANAGEMENT PRE- LICENSE	0 CREDIT						
SBM-020	SMALL BUSINESS GREENHOUSE	0 CREDIT						
SBM-021C	SMALL BUSINESS MANAGEMENT I	0 CREDIT						
SBM-024C	SUCCESSION PLANNING	0 CREDIT						
SBM-029C	SMALL BUSINESS MANAGEMENT II FOR CONSTRUCTION CONTRACTORS	0 CREDIT						
XSBM-0003	GOING INTO BUSINESS	0 CREDIT						
XSBM-0011	QUICKBOOKS PRO: PART I	0 CREDIT						
Writing								
WR-121Z	COMPOSITION I	4 CREDITS						
WR-122Z	COMPOSITION II	4 CREDITS						
WR-227Z	TECHNICAL WRITING	4 CREDITS						
WRD-098	INTRODUCTORY COLLEGE READING & WRITING 2	4 CREDITS						

Course No	Course Title, Credits				
	Section No	Crs Reg.	Days (M,T,W		

ays (M,T,W,TH.F,S,SU) Time uition Fee Crs. Fee

COURSE LISTING

Credit and non-credit Courses offered Spring 2025

Adult Basic Education (ABE)

ABE-012 ADULT BASIC EDUCATION, 0 CREDIT

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

OC LCT	ABE-012-07	336092 MTWTH	10-11:50 AM				
	D. GREEN	\$0.00	\$0.00	\$55.00	\$55.00		
	Required: Student Petition. Please call 503-594-3027 for						
	orientation inf	ormation.					

Anthropology

ANT-101 BIOLOGICAL ANTHROPOLOGY, 4 CREDITS

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

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

ONL LCT	ANT-101-01	336097	
	K. BACA	\$504.00 \$52.00 \$0.00	\$556.00
	Online textbo	ok 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.

necomm	ended Frerequi	siles. WhD-090 0	i piacein		090
OC LCT	ANT-102-01	336102 TTH		1-2:50 PM	
		<i></i>	#FO OO	#0.00	<i>ФГГО 0</i>

	K. DAGA	JU4.00 JU2.00 JU.00	φορο.00			
	Online textbo	ok provided first day of class.				
ONL LCT	ANT-102-02	340180				
	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

OC LCT	ANT-103-01	336106 TTH		10-11:50	AM	
	K. BACA	\$504.00	\$52.00	\$0.00	\$556.00	
	Online textbo	ok provided first da	y of clas	s.		
ONL LCT	ANT-103-02	338066				
	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)

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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	
		_				

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

Corequisites: CWE-281

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

oc ANT-280-01 336110 K. BACA \$756.00 \$78.00 \$45.00 \$879.00V Required: Student Petition. Corequisite: Take the following CWE-281-06.

Art

Total

ART-100B CERAMIC TECHNIQUES, 1 CREDIT

Various topics will introduce techniques in clay construction, kiln construction, firing methods, glazing and/or ceramic methods. Students will create and fire work using clay and/or clay materials. Historical and contemporary ideas related to ceramics may be presented and discussed.

ос	ART-100B-01	339917	F		1-4:30 I	РМ
			SU		10-5:00	PM
			S		12:30 -4	4:30 PM
			S		1:30 -4:	30 PM
	C. BASKIN		\$126.00	\$13.00	\$50.00	\$189.00
Focus on Soda Kiln Firing. Meets: 4/5-5/9.						

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	336283				
	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 elements and principles of design and basic color theory. Students develop compositional and analytical skills through projects and critiques. Students examine historical and contemporary issues and ideas related to visual composition and design across multiple fields of expression.

OC LCT	ART-115-01	336284	MW		1-3:50 PM	
	C. SIEGFRIED		\$504.00	\$52.00	\$80.00	\$636.00
OC LCT	ART-115-02	336289	TTH		1-3:50 PM	
	R. KALMAN		\$504.00	\$52.00	\$80.00	\$636.00

ART-117 BASIC DESIGN: 3-DIMENSIONAL COMPOSITION, 4 CREDITS

Examine the elements of form, space, and structure. Create works of art using various processes. Examine historical and contemporary issues and ideas relating to sculpture and 3-dimensional design.

OC LCT	ART-117-01	336291 MW	9-11:50 AM		
	K. SIMMONS	\$504.00	\$52.00	\$80.00	\$636.00

ART-120 CREATIVITY/IDEATION, 2 CREDITS

Course	Listing											2	025/SP
Course No	Course Title, C	redits					Course No	Course Title, C	redits				
	Section No Instructor	Crs Reg.	Days (M,T, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T Tuition	,W,TH.F,S,SU) Fee	Time Crs. Fee	Total

Have a great idea, want to further explore your ideas and creativity? Experience the process of generating ideas and developing creative problem-solving strategies. This course includes experimentation, collaboration, non-traditional methods and psychological aspects of creating and synthesizing ideas. This course is not just for artists, it is for everyone who wants to develop an idea.

OC HYB LCT ART-120-01	336295 W		1-2:50 F	PM
N. BRODNICK	I \$252.00	\$26.00	\$32.00	\$310.00

ART-131 INTRODUCTION TO DRAWING, 4 CREDITS

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

ONL LCT	ART-131-01	336296				
	A. SCHROER		\$504.00	\$52.00	\$80.00	\$636.00
	Required: Pick	c up supp	olies on ca	ampus 4/	/2, 11:00-1	:00pm.
OC LCT	ART-131-02	336297	MW		9-11:50	AM
	R. KALMAN		\$504.00	\$52.00	\$80.00	\$636.00
OC LCT	ART-131-03	336299	MW		1-3:50 P	М
	R. KALMAN		\$504.00	\$52.00	\$80.00	\$636.00

ART-161 PHOTOGRAPHY I, 4 CREDITS

Introduction to basic camera operation and basic darkroom processes in developing and printing film. Elements of composition, content, and historical reference will be explored.

Required: Access to a 35mm black and white camera with adjustable exposure controls (no digital cameras)

oc	ART-161-01	339913 TTH		1-3:50 P	M
	C. GIFFEN	\$504.00	\$52.00	\$150.00	\$706.00

ART-162 PHOTOGRAPHY II, 4 CREDITS

This course is the second of a sequence of three darkroom photography courses. This course explores camera operation and darkroom processes in developing and printing film. Photography II explores the photo processes and elements of composition, content, and historical/contemporary references at an intermediate level.

Prerequisites: ART-161

Required: Access to a 35mm black and white camera with adjustable exposure controls (no digital cameras)

ос	ART-162-01	339914 TTH	H 1-3:50 PM		M
	C. GIFFEN	\$504.00	\$52.00	\$150.00	\$706.00

ART-206 HISTORY OF ART/ENLIGHTENMENT THROUGH CONTEMPORARY, 4 CREDITS

Examines art, culture, and history from the Enlightenment through the current century. This is a broad overview of art history that promotes an understanding of art and its history through readings, discussion, papers and exams.

ONL LCT	ART-206-01	335827
	J. SIMONE	\$504.00 \$52.00 \$21.00 \$577.00

ART-233 DRAWING FOR COMICS, 4 CREDITS

Introduces basic drawing skills, drawing tools, materials, techniques, elements of composition; line, gesture, color and value. Projects will involve drawing with a focus on sequential imagery, comics and graphic style. Assignments include drawing, assigned readings and group critiques of drawing projects. This course emphasizes composition, expression and text-related imagery.

Prerequisites: ART-131 or Student Petition

OC LCT	ART-233-01	336309	TTH		9-11:50 A	M
	D. ANDERSEN	N	\$504.00	\$52.00	\$80.00	\$636.00

ART-250 CERAMICS/BEGINNING, 4 CREDITS

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

OC LCT	ART-250-01 3363	13 TTH		1-3:50 PM	
	N. BRODNICKI	\$504.00	\$52.00	\$79.00	\$635.00
OC LCT	ART-250-02 3363	18 TTH		6-8:50 PM	
	N. WARRENS	\$504.00	\$52.00	\$79.00	\$635.00

ART-252 CERAMICS/WHEEL-THROWING I, 4 CREDITS

This course is an introduction to ceramic wheel-throwing methods through the creation of functional and artistic forms to develop fundamental skills and clay experience and foster artistic growth. Students are introduced to glazing and firing methods. Students research the history of ceramics and its connection to culture and society.

OC LCT	ART-252-01	TTH		9-11:50 AM		
	N. BRODNICK	I.	\$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	336323	ттн		1-3:50 PM	
	N. BRODNICK	I	\$504.00	\$52.00	\$79.00	\$635.00
OC LCT	ART-253-02	336326	TTH		6-8:50 PM	
	N. WARRENS		\$504.00	\$52.00	\$79.00	\$635.00

ART-255 CERAMICS/WHEEL-THROWING II, 4 CREDITS

This course continues the development of ceramic wheel-throwing methods through the creation of functional and artistic forms to develop skills and clay experience and foster artistic growth. Students explore glazing and firing methods. Students also examine the history of wheel thrown ceramics and its connection to culture and society.

Prerequisites: ART-252 or Student Petition

OC LCT	ART-255-01	336328	ттн		9-11:50	AM
	N. BRODNICK	(I	\$504.00	\$52.00	\$79.00	\$635.00

ART-257 METALSMITHING/JEWELRY, 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

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

This course examines basic techniques in metalsmithing and jewelrymaking. 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	336330 TTH	9-11:50 AM		
	J. IIJIMA	\$504.00	\$52.00	\$80.00	\$636.00

ART-258 METALSMITHING/JEWELRY: INTERMEDIATE, 4 CREDITS

This course continues the study of applied design principles in metalsmithing and jewelry-making, with an emphasis on creating original designs. Students will learn more advanced technical processes and engage in discussions about the relationship between jewelry/art metal and different fields. Students who aspire to pursue a career in the jewelry and metalsmithing trades will receive practical guidelines to help them achieve their goals.

Prerequisites: ART-257

ос	ART-258-01	339916 TTH	9-11:50 AM		
	J. IIJIMA	\$504.00	\$52.00	\$80.00	\$636.00

ART-261 PHOTOGRAPHY III, 4 CREDITS

This course is the third of a sequence of three darkroom photography courses. This course explores camera operation and darkroom processes in developing and printing film. Photography III explores the photo processes and elements of composition, content, and historical/ contemporary references at an advanced level.

Prerequisites: ART-161 and ART-162

Required: Access to a 35mm black and white camera with adjustable exposure controls (no digital cameras)

oc	ART-261-01	339915 TTH	1-3:50 PM			
	C. GIFFEN	\$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.

Required: Access to a digital camera with adjustable exposure controls

ONL LCT	ART-262-01	336333			
	S. ELIOT	\$504.00	\$52.00	\$80.00	\$636.00
OC LCT	ART-262-02	336336 TTH		9-11:50	AM
	D. OLSEN	\$504.00	\$52.00	\$80.00	\$636.00

ART-283 PAINTING: LANDSCAPES/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 landscape 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-283-01	336340 TTH		9-11:50	АМ
	A. SCHROER	\$504.00	\$52.00	\$95.00	\$651.00

ART-286 PAINTING: LANDSCAPES/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 landscape and its relationship to volume and form on a two-dimensional plane. Course includes painting, readings and group critiques.

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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, C	redits				
	Section No Instructor	Crs Reg.	Days (M,T,) Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total
Prerequisit	es: ART-283 o	r Studen	t Petition			
OC LCT	ART-286-01 A. SCHROER	336341	TTH \$504.00	\$52.00	9-11:50 \$95.00	AM \$651.00

2025/SP

ART-293 SCULPTURE (METAL EMPHASIS), 4 CREDITS

The processes and concepts of sculpture including the elements of form, space and visual communication will be examined with emphasis on current issues. Use of clay and plaster in relation to metal sculpture. Welding, casting, and assemblage will be explored. Historical and contemporary ideas and aesthetic content will be examined.

OC LCT ART-293-01 336343 MW 1-3:50 PM 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	336185 S		8-7:50 PM	
	P. NESBITT	\$378.00	\$39.00	\$175.00	\$592.00
	Meets: 4/5, 4/	/19, 5/3, 5/17 & 6/7.			
OC LCT	AB-101-02	336188 S		8-7:50 PM	l
OC LCT	AB-101-02 A. DANIEK	336188 S \$378.00	\$39.00		l \$592.00

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. May be repeated for up to 12 credits.

OC LCT	AB-105-01	336190 THF		6:30 -9:20 PM	
	F. DAVIS	\$378.00	\$39.00	\$175.00	\$592.00

AB-112 COLLISION REPAIR WELDING I, 2 CREDITS

This class focuses on auto collision damage repair. Emphasis is on Metal Inert Gas (MIG), Gas Metal Arc Welding (GMAW), welding on light gauge metals, and oxygen-acetylene cutting.

OC LCT	AB-112-01	336192	F		8-12:20 F	M
	C. DAHLSRUI RIVERA J. PHELPS)-	\$252.00	\$26.00	\$170.00	\$448.00

AB-113 COLLISION REPAIR I/NONSTRUCTURAL, 6 CREDITS

Provides basic instruction in collision repairs, including shop safety and chemical hazard safety; proper and safe use of tools; basic metal work and finishing; use of filler; door removal, replacement and alignment; and replacement and alignment of bolt-on front end sheet metal parts.

Prerequisite or Corequisite: AB-112 and ABR-125

OC LCT	AB-113-01	336193 MT		7-12:20 PM		
	M. GRIFFITH M. HOUSE	\$756.00	\$78.00	\$337.00	\$1,171.00	

AB-123 COLLISION REPAIR WELDING II, 2 CREDITS

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

	Course Title, C	Credits				Course No	Course Title, C	redits	
	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, Tuition
Plasma Ar RSW), and damage re	c Cutting (PAC d other advance	;), Squeez	: Gas Metal Arc V e Type Resistand g techniques spec	e Spot We	lding (ST-	(GMAW) ar learned, ald procedures	welding for colli nd Gas Tungste ong with related t es: AB-123	en Arc We	əlding (
OC LCT	AB-123-01 C. DAHLSRU RIVERA J. PHELPS	336196 JD-	F \$252.00 \$26.00	8-12:20 \$158.00	PM \$436.00	OC LCT	AB-235-01 C. DAHLSRUI RIVERA J. PHELPS	336209 D-	F \$252.0
Includes re componen computeriz	jor body damage pair and replates ts using the lates zed measuring	ge using r cement of est techno	I/STRUCTURAL, nodern frame rep bolt-on, bonded, blogy. Includes in age analysis.	air equipme and weldee	ent. d	auto body r	COLLISION F e work experier epair shop. Re es: CWE-281 AB-280-01	nce. Worł	k-based tudent F
OC LCT	ites: AB-113 AB-133-01 M. GRIFFITH M. HOUSE	336199 I	MT \$756.00 \$78.00	7-12:20 \$337.00			M. HOUSE Required: Stur CWE-281-06.	dent Peti	\$756.00 tion. Co
AB-151	ONE, 2 CRE	DITS	COMPUTERIZED			abrasives,	COLLISION F p safety, fire pr fillers, basic app	revention	, selecti of prime
estimating software.			repair field. Focus			OC LCT	ABR-125-01 M. GRIFFITH	336216	
OC LCT	AB-151-01	336200 OUNDS	M \$252.00 \$26.00	1:30 -5:2 \$154.00	20 PM \$432.00	ABR-127	M. HOUSE	REPAIR/F	REFINIS
						Application	of solvent and	waterbor	ne finisl
AB-222	CREDITS					to compute	ning, complete i rized color info	refinishing	g, and p
Major collis panels, sus Emphasis panels, an	CREDITS sion repair with spension and b on frame and b d diagnosis an	i a system brakes, eli unibody re	II/ADVANCED S as approach: fram ectrical and coolin pair, replacemen f related damage.	e and struc g systems. t of welded	sture,	to compute	ning, complete i	refinishing rmation re 336218	g, and p etrieval
Major collis panels, sus Emphasis panels, an	CREDITS sion repair with spension and b on frame and u	a system prakes, ele unibody re d repair o 336202	is approach: fram ectrical and coolin pair, replacemen f related damage.	e and struc g systems. t of welded 7-12:20 I	body PM	to compute Prerequisit OC LCT ABR-129 Application urethane to	hing, complete r rized color infor tes: ABR-125 ABR-127-01 M. GRIFFITH M. HOUSE COLLISION F of solvent and pcoats, using b	refinishing rmation re 336218 REPAIR/F waterbor poth foreig	g, and p etrieval WTH \$756.00 REFINIS ne base gn and o
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Major collis panels, su Emphasis panels, an Prerequisi oc LCT AB-224 Advanced measurem suspension Prerequisi oc LCT AB-226 Uses the la repair vehi repair proc	CREDITS sion repair with spension and b on frame and d diagnosis an ites: AB-133 AB-222-01 M. GRIFFITH M. HOUSE COLLISION CREDITS frame and Uni ient and dimen n, and alignme ites: AB-222 AB-224-01 M. GRIFFITH M. HOUSE COLLISION CREDITS atest high quali cles to pre-coll asses for toda	a system prakes, elo unibody red d repair o 336202 REPAIR body repa sioning, ro nt as they 336204 I REPAIR ty, product ision cond y's workp	As approach: frame ectrical and cooling pair, replacemen f related damage. MT \$756.00 \$78.00 V/ADVANCED S ir procedures. Elector pair documentation relate to collision MT \$756.00 \$78.00 V/ADVANCED ST stive techniques a dition. Covers the ace.	e and struc g systems. t of welded 7-12:20 I \$337.00 TRUCTUR ectronic on, brakes, repair. 7-12:20 I \$337.00 TRUCTUR/ nd equipmore refined coll 7-12:20 I	eture, body PM \$1,171.00 AL, 6 \$1,171.00 AL, 6 ent to lision PM	to compute Prerequisit OC LCT ABR-129 Application urethane to Includes co and probler Prerequisit OC LCT ABR-225 Designed fa in refinishin Prerequisit OC LCT ABR-227 Designed fa end refinish standards a	hing, complete a rized color infor tes: ABR-125 ABR-127-01 M. GRIFFITH M. HOUSE COLLISION F of solvent and pcoats, using t mplete refinish m solving. tes: ABR-127 ABR-129-01 M. GRIFFITH M. HOUSE PRODUCTION or students who g, using the mo tes: ABR-129 ABR-225-01 M. GRIFFITH M. HOUSE	REPAIR/F waterbor both foreig ing, spot 336219 N SHOP bowish to bost up-to- 336221 ON PRAC bowish to cts will be	y, and p etrieval WTH \$756.0 REFINIS ne base gn and particular and particular \$756.0 TECHN gain ad date me \$756.0 CTICES broader consid

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

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

2025/SP T,W,TH.F,S,SU) Time Fee Crs. Fee Total

pair. Gas Metal Arc Welding GTAW) processes are s and equipment/safety

OC LCT	AB-235-01	336209	F		8-12:20 PI	N
	C. DAHLSRUE RIVERA J. PHELPS)-	\$252.00	\$26.00	\$170.00	\$448.00

-6 CREDITS (VAR)

learning experience in an Petition.

ос	AB-280-01	336212			
	M. HOUSE	\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Stu	dent Petition. Cor	equisite:	Take the	following
	CWE-281-06.				

SHING I, 6 CREDITS

ion and use of paint products, ers, sealers, and top coats. AB-113

OC LCT	ABR-125-01	ABR-125-01 336216 WTH			PM
	M. GRIFFITH M. HOUSE	\$756.00	\$78.00	\$337.00	\$1,171.00

SHING II, 6 CREDITS

hes, including spot repairs, problem solving. Introduction and mixing.

OC LCT	ABR-127-01	336218 WTH		7-12:20 PM	
	M. GRIFFITH M. HOUSE	\$756.00	\$78.00	\$337.00	\$1,171.00

SHING III, 6 CREDITS

ecoats and tri-coats and domestic refinish systems. nel painting, color matching

OC LCT	ABR-129-01	336219 WTH		7-12:20	РМ
	M. GRIFFITH M. HOUSE	\$756.00	\$78.00	\$337.00	\$1,171.00

IQUES, 6 CREDITS

ditional hands-on experience ethods and materials.

OC LCT	ABR-225-01	336221	WTH		7-12:20	PM
	M. GRIFFITH M. HOUSE		\$756.00	\$78.00	\$337.00	\$1,171.00

6 CREDITS

n their skills base in the upper lerably more challenging, with

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

Course No	Course Title, Credits						
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total	
OC LCT	ABR-227-01 M. GRIFFITH M. HOUSE	336224		\$78.00	7-12:20 \$337.00	PM \$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 LCT	AM-100-01	336226 MTWTH		1-2:50 PM	
	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	336231 MTWTHF		1-5:50 PM	
	J. LEUCK	\$252.00	\$26.00	\$5.00	\$283.00
	Meets: 3/31-4/	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-106-01	336233 S		8-4:20 PM	
	T. SHOCKLEY	\$252.00	\$26.00	\$63.00	\$341.00
	Meets: 4/12, 4/	/26, 5/10, 5/31, &	6/14.		

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	336248 THF		6-9:50 PM	Л
	T. CARLSON	\$504.0	0 \$52.00	\$121.00	\$677.00
OC LCT	AM-118-02	336253 MTWT	Н	7:30 -9:2	0 AM
	L. BLAHUTA	\$504.0	0 \$52.00	\$121.00	\$677.00
oc	AM-118-03	339940 MTWT	Н	10-11:50	AM
	L. BLAHUTA	\$504.0	0 \$52.00	\$121.00	\$677.00

Course No	Course Title, C	redits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
oc	AM-118-03A	339939	MTWTH		10-11:50	AM
	L. BLAHUTA		\$504.00	\$52.00	\$121.00	\$677.00
	Required: Stud	dent Petit	tion. CTE	Pathway	s Section.	For
	more informati 3161.	on conta	ct High S	chool Co	onnections	503-594-
ос	AM-118-04	339922	THF		1-4:50 PM	Λ
	T. CARLSON		\$504.00	\$52.00	\$121.00	\$677.00
ос	AM-118-04A	339923	THF		1-4:50 PN	Λ
	T. CARLSON		\$504.00	\$52.00	\$121.00	\$677.00
	Required: Stud more informati 3161.					

AM-135 POWER TRANSMISSION SYSTEMS, 5 CREDITS

In this course students will learn the construction, operation, service and repair of clutches, manual transmission, U-joints, drive lines, final drives, overdrive, and four wheel drives.

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

Recommended Prerequisites: AM-101 with a C or better, or Student Petition

ос	AM-135-01	336263	мтwтн		1-5:50 PM	
	W. VAN RIPEF	1	\$630.00	\$65.00	\$204.00	\$899.00
	Meets: 4/7-5/8					
OC	AM-135-02	336266	MTWTH		1-5:50 PM	
	W. VAN RIPEF	1	\$630.00	\$65.00	\$204.00	\$899.00
	Meets: 5/12-6/	12.				

AM-142 ENGINE PERFORMANCE I, 5 CREDITS

This course is designed to provide students with the entry-level skills necessary to repair automobile fuel delivery and emission systems. Includes general engine diagnosis; fuel, air induction, and exhaust systems diagnosis and repair; emission control systems diagnosis and repair. Introduction to the diagnostic process, scan tools, and oscilloscopes.

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

Recommended Prerequisites: AM-101 with a C or better, or Student Petition

ос	AM-142-01	336268	мтwтн		1-5:50 PM	
	J. LEUCK		\$630.00	\$65.00	\$211.00	\$906.00
	Meets: 4/7-5/	/8.				
ос	AM-142-02	336269	мтwтн		1-5:50 PM	
oc	AM-142-02 J. LEUCK	336269	MTWTH \$630.00			\$906.00

AM-223 ALTERNATIVE FUELS TRANSPORTATION TECHNOLOGY, 5 CREDITS

Provides students with knowledge of theory and physical description of hybrid, Electric, Fuel cell vehicles. The student will have the opportunity to acquire practical experience in the area of diagnosing and repairing alternative fuel transportation vehicles.

Prerequisites: AM-129

ос	AM-223-01	336270	мтwтн		7-11:50 AI	N
	N. ROBERTS		\$630.00	\$65.00	\$124.00	\$819.00
	Meets: 3/31-5/	1.				
OC	AM-223-02	337983	MTWTH		7-11:50 AM	M
oc	AM-223-02 N. ROBERTS		MTWTH \$630.00			M \$819.00

AM-225 SAFETY SYSTEMS, 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

Course No	Course Title, Credits					
	Section No	Crs Reg.		W,TH.F,S,SU)		
	Instructor		Tuition	Fee	Crs. Fee	Total

In this course students will be introduced to existing vehicle on-board safety systems and Advanced Driver Assist Systems (ADAS) on today's vehicles. Safety systems such as Anti-lock brakes, Traction control, Airbag systems, Stability control, and Advanced Driver Assist Systems will be explained, demonstrated, and tested.

Prerequisites: AM-129

OC	AM-225-01 336272	2 MTWTH		7-11:50 Al	M
	D. BLACKMON	\$630.00	\$65.00	\$211.00	\$906.00
	Meets: 3/31-5/1.				
oc	AM-225-02 337984	1 MTWTH		7-11:50 Al	М
oc	AM-225-02 337984 D. BLACKMON	\$630.00			VI \$906.00

AM-228 SERVICE SHOP MANAGEMENT, 4 CREDITS

Course designed to familiarize students with the responsibilities of the parts manager, service manager and service writer and the day to day responsibilities of operating a business.

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

OC	AM-228-01	336276 T		6-9:50 P	Μ
	W. VAN RIPE	R \$504.00	\$52.00	\$99.00	\$655.00

AM-280 AUTO MECHANICS/CWE, 1-6 CREDITS (VAR)

Cooperative work experience. Work-related learning experience in an auto repair shop or auto dealership. Required: Student Petition. **Corequisites:** CWE-281

ос	AM-280-01 3	36278		
	N. ROBERTS	\$756.00	\$78.00 \$45.00	\$879.00V
	Required: Stude CWE-281-06.	nt Petition. Core	equisite: Take the	following

Biology

BI-101 GENERAL BIOLOGY; CELLULAR BIOLOGY, 4 CREDITS

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

Corequisites: BI-101L

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

ONL	BI-101-40	336345
	E. DEBEY	\$504.00 \$52.00 \$55.00 \$611.00
	Corequisite:	Take the following BI-101L-40.
ONL	BI-101-41	340058
	E. DEBEY	\$504.00 \$52.00 \$55.00 \$611.00
	Corequisite:	Take the following BI-101L-41.
BI-101L	GENERAL E CREDIT	BIOLOGY; CELLULAR BIOLOGY LAB, 0
Lab cours	se for BI-101	
Corequis	ites: BI-101	
ONL	BI-101L-40	336347
	E. DEBEY	\$0.00 \$0.00 \$0.00 \$0.00
	Corequisite:	Take the following BI-101-40.
ONL	BI-101L-41	340059

E. DEBEY \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take the following BI-101-41.

BI-102 GENERAL BIOLOGY; ANIMAL SYSTEMS, 4 CREDITS

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonville Training Center OFF: Other Off-Campus Location Distance Education Notification: ONL: Online Only REM: Remote (w/ scheduled meetings) HYB: In-person plus online work

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

2025/S

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

ос	BI-102-01	336348 MW		9-10:20 A	М
	E. DEBEY	\$504.00	\$52.00	\$55.00	\$611.00
	Corequisite: Tal	ke the following I	BI-102L-	01.	
ONL	BI-102-40	336350			
	S. SOLL	\$504.00	\$52.00	\$55.00	\$611.00
	Corequisite: Tal	ke the following I	BI-102L-	40.	
ONL	BI-102-41	336351			
	N. SEFCIKOVA	\$504.00	\$52.00	\$55.00	\$611.00
	Corequisite: Tal	ke the following I	BI-102L-	41.	

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

Lab course for BI-102

Corequisites: BI-102

ос	BI-102L-01	336353 MW		10:30 -1	1:50 AM
	E. DEBEY	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Ta	ake the following	BI-102-0	1.	
ONL	BI-102L-40	336354			
	S. SOLL	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Ta	ake the following	BI-102-4	0.	
ONL	BI-102L-41	336355			
	N. SEFCIKOV	۹ \$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Ta	ake the following	BI-102-4	1.	

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

An inquiry-based laboratory course focusing on plants and the ecosystem; including plant identification, population dynamics, productivity and energy flow. Activities include an integrated approach to understanding environmental issues and the impact of humans on the biosphere. The class uses student centered activities in a collaborative learning environment to enhance appreciation of the biological world.

Corequisites: BI-103L

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

oc	BI-103-01 S. SOLL Corequisite: T	336357 ake the f	\$504.00		9:20 -10:4 \$55.00	0 AM \$611.00
oc	BI-103-20 K. OSTLUND Corequisite: T	336360	MW \$504.00	\$52.00	6-7:20 PN \$55.00	l \$611.00
ONL	BI-103-40 K. OSTLUND Corequisite: T		\$504.00			\$611.00
BI-103L	GENERAL BI 0 CREDIT	OLOGY	PLANTS	6 & THE	ECOSYSTI	EM LAB,

Lab course for BI-103 **Corequisites:** BI-103

С

oc	BI-103L-01	336364 TTH		10:50 -12	2:10 PM
	S. SOLL	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite:	Take the following	BI-103-0	1.	

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

Course No	Course Title, C Section No Instructor	redits Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
OC	BI-103L-20 K. OSTLUND Corequisite: T		B MW \$0.00	\$0.00	7:30 -8:50 \$0.00	
ONL	BI-103L-40 K. OSTLUND Corequisite: T	336371	\$0.00	\$0.00	\$0.00	\$0.00
BI-112	GENERAL B	IOLOGY	FOR HE	ALTH SC	EIENCES, 4	
principles of organ syste 231 and BI Corequisit Recomment Recomment	the scientific mo of inheritance, h -234. es: BI-112L nded Corequis nded Prerequi and WRD-098 (nomeosta d skills c site: CH- sites: M	asis, natur overed pr 112 TH-060 or	ral selecti epare stu r MTH-09	on, tissues, idents to ent	er BI-
oc	BI-112-01 J. BOWN Corequisite: T	336372	2 TTH \$504.00	\$52.00		\$611.00
HAR	BI-112-15 P. JONES Corequisite: T BI-112-20	336375	5 MW \$504.00 following	\$52.00	9-10:20 AN \$55.00	
ONL	S. KELSEY Corequisite: T BI-112-40		\$504.00 following	\$52.00 BI-112L-2	+	\$611.00
	M. ANDURI- F Corequisite: T	-LYNN	\$504.00	\$52.00 BI-112L-4		\$611.00
BI-112L	GENERAL B	IOLOGY	FOR HE	ALTH SC	IENCES LA	В, 0

Lab course for BI-112

Corequisites: BI-112

ос	BI-112L-01	336377 T		1-3:50 P	М
	J. BOWN	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite:	Take the following	BI-112-0	1.	
ос	BI-112L-02	336378 TH		8-10:50	АМ
	J. BOWN	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite:	Take the following	BI-112-0	1.	
HAR	BI-112L-15	336379 MW		10:30 -1	1:50 AM
	P. JONES	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite:	Take the following	BI-112-1	5.	
OC	BI-112L-20	340063 W		6:30 -9:2	O PM
	S. KELSEY	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite:	Take the following	BI-112-2	.0.	
ONL	BI-112L-40	336382			
	M. ANDURI-	FLYNN \$0.00	\$0.00	\$0.00	\$0.00
	Corequisite:	Take the following	BI-112-4	0.	

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

Course No	Course Title, Cr	redits				
	Section No Instructor	Crs Reg.	Days (M,T,) Tuition	N,TH.F,S,SU) Fee	Time Crs. Fee	Total
HAR	BI-120-15	336384	MW		1-2:20 PM	
	P. JONES		\$504.00	\$52.00	\$55.00	\$611.00
	Corequisite: Ta	ake the f	ollowing I	3I-120L- ⁻	15.	

BI-120L INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY LAB, 0 CREDIT

Lab course for BI-120 Corequisites: BI-120

HAR	BI-120L-15	336386 MW		2:30 -3:50	D PM
	P. JONES	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite:	Take the following	BI-120-1	5.	

BI-160 BIRD IDENTIFICATION & TAXONOMY, 3 CREDITS

Lecture course introducing bird taxonomy, evolution, anatomy and physiology, identification, and behaviors. Identification techniques applied to regional birds through lectures, slides and other activities.

OC LCT	BI-160-20	336387 T		6-8:50 PN	1
	J. BOWN	\$378.00	\$39.00	\$20.00	\$437.00

BI-160L BIRD IDENTIFICATION & TAXONOMY WITH LAB, 4 CREDITS

Lecture course introducing bird taxonomy, evolution, anatomy and physiology, identification, and behaviors. Identification techniques applied to regional birds through lectures, slides and other activities. Includes field identification of common Oregon birds by sight, sound, and habitat. Field trips required along with online research.

OC LCT	BI-160L-20	336390 T	6-8:50 PM
	J. BOWN	\$504.00	\$52.00 \$60.00 \$616.00
	Field trip date	s: Apr 19, May 3, a	and May 31.
ос	BI-160L-21	336391 T	6-8:50 PM
	J. BOWN	\$504.00	\$52.00 \$255.00 \$811.00
	Required: Stu and May 31.	Ident Petition. Field	d trip dates: Apr 19, May 3,

BI-163 MALHEUR FIELD TRIP, 1 CREDIT

Four day field trip. Study of plants, animals, geology, and history of the Northern Basin and Range ecoregion at the Malheur Environmental Field Station in southeast Oregon. Required: Student Petition.

Required: Field trip

OFF	BI-163-01 J. BOWN S. HOOVER		\$13.00	\$250.00	\$389.00
	to Malheur F Participation animals, geo Range ecore	udent Petition. Mee ield Station. This co Only. Four-day field logy, and history of gion at the Malheur Oregon. Required:	ourse is F d trip. Stu the Nort Environ	Field Trip udy of plan hern Basin mental Fie	ts, and

BI-213 GENERAL BIOLOGY FOR SCIENCE MAJORS (PLANT BIOLOGY & ECOLOGY), 5 CREDITS

This course is the third quarter of a three-quarter sequence of a laboratory course for science majors and pre-professional students. It emphasizes an evolutionary approach to plant biology and ecology; including plant diversity, plant organ systems and their functions, photosynthesis and transpiration, productivity and energy transfer, nutrient cycles, population dynamics, ecosystems and environmental issues.

Corequisites: BI-213L Prerequisite or Corequisite: CH-105 or CH-222

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

Course No	Course Title, Cr	redits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
					0.01.00	
OC	BI-213-01	336396	5 MW		8-9:50 AN	1
	T. BLACKWEI	LL	\$630.00	\$65.00	\$55.00	\$750.00
	Corequisite: T	ake 1 of	the follow	ving BI-2	13L-01, BI-2	213L-02.
ONL	BI-213-02	336397	7			
	T. BLACKWEI	LL	\$630.00	\$65.00	\$55.00	\$750.00
	This section h	as an in	person la	ab require	ement. Core	quisite:
	Take 1 of the	following	BI-213L	-01, BI-2	13L-02.	
BI-213L	GENERAL BI BIOLOGY & I				•	ANT
Lab course	e for BI-213					
Corequisit	es: BI-213					
OC	BI-213L-01	336398	Σ		8-10:50 A	М
00	T. BLACKWEI		\$0.00	\$0.00		\$0.00
	Corequisite: T				+	+
oc	BI-213L-02			ving DI-2	1-3:50 PM	
00		336399		\$0.00		
	T. BLACKWEI		\$0.00		\$0.00	\$0.00
	Corequisite: T	ake 1 of	the follow	ving BI-2	13-01, BI-21	3-02.
BI-231		TOMY	DUVOIO			
DIEZ 31	HUMAN ANA			LUGYI.	4 UREDITS	5

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	336400 M		2-4:00	РМ
	B. KOP	\$504.00	\$52.00	\$55.00	\$611.00
	Corequisite:	Take 1 of the follow	ving BI-2	31L-01, E	8I-231L-02.

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

Lab course for BI-231 Corequisites: BI-231

OC	BI-231L-01	336404 M		4:30 -7:20 I	РМ
	M. PATTERS	ON \$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: 7	Take the following	BI-231-0	1.	
oc	BI-231L-02	340218 W		9-11:50 AM	
	TBA	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: 1	Take the following	BI-231-0	1.	

BI-232 HUMAN ANATOMY & PHYSIOLOGY II, 4 CREDITS

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

Prerequisites: BI-231 with a C or better

Corequisites: BI-232L

OC HYB	BI-232-01	336408 T	2:30 -4:	30 PM
	B. KOP	\$504.00 \$52.00	\$55.00	\$611.00
	Corequisite	Take the following BI-232L	·01.	
OC HYB	BI-232-20	336412 T	6:30 -9:	00 PM
	B. KOP	\$504.00 \$52.00	\$55.00	\$611.00
	D. KOI	ψυυτ.υυ ψυζ.υυ	φ00.00	φ011.00

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

Lab course for BI-232

Corequisites: BI-232

ос	BI-232L-01 336413 TH		2:30 -5:20 PM		
	J. GALLEGOS	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take th	e following	BI-232-0	1.	

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 Tuition	/,TH.F,S,SU) Fee	Time Crs. Fee	Total			
oc	BI-232L-20	336416	TH		6:30 -9:20	РМ			
	J. GALLEGOS		\$0.00	\$0.00	\$0.00	\$0.00			
	Corequisite: Ta	1	allouina D						

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BI-233 HUMAN ANATOMY & PHYSIOLOGY III, 4 CREDITS

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

Prerequisites: BI-232 with a C or better

Corequisites: BI-233L

ос	BI-233-01	336418 M		10-11:50	АМ
	M. PATTERS	ON \$504.00	\$52.00	\$55.00	\$611.00
	Corequisite:	Take the following	BI-233L-	01.	
HAR HYB	BI-233-15	336427 T		9-11:00	۹M
	M. PATTERS	ON \$504.00	\$52.00	\$55.00	\$611.00
	Corequisite:	Take the following	BI-233L-	15.	
OC HYB	BI-233-20	336425 M		6:30 -9:0	0 PM
	B. KOP	\$504.00	\$52.00	\$55.00	\$611.00
	Corequisite:	Take the following	BI-233L-	20.	

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

Lab course for BI-233

Corequisi	ites: BI-233					
ос	BI-233L-01	336428	м		1-3:50 PM	
	M. PATTERS	ON	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite:	Take the f	following I	BI-233-0 ⁻	1.	
HAR	BI-233L-15	336435	TH		9-11:50 AM	
	M. PATTERS	ON	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite:	Take the f	following I	BI-233-18	5.	
OC	BI-233L-20	336433	W		6:30 -9:20 PI	N
	J. GALLEGO	S	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite:	Take the f	following I	BI-233-20).	
	BI-233L-15 M. PATTERS Corequisite: BI-233L-20 J. GALLEGO	336435 ON Take the f 336433 S	5 TH \$0.00 following I 5 W \$0.00	\$0.00 BI-233-18 \$0.00	9-11:50 AM \$0.00 5. 6:30 -9:20 PI \$0.00	M

BI-234 INTRODUCTORY MICROBIOLOGY, 4 CREDITS

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

Prerequisites: BI-101, BI-112 or BI-211; and CH-104, CH-112 or CH-221

Corequisites: BI-234L

OC LCT	BI-234-01	336436 TTH		1-2:20 PM	
	S. SOLL	\$504.00	\$52.00	\$55.00	\$611.00
	Corequisite:	Take the following	BI-234L-(01.	
OC	BI-234-20	336439 TTH		6-7:20 PM	
	M. PLUMME	R \$504.00	\$52.00	\$55.00	\$611.00
	Corequisite:	Take the following I	BI-234L-2	20.	
ONL	BI-234-40	336440			
	A. KAPILA	\$504.00	\$52.00	\$170.00	\$726.00
	Corequisite:	Take the following	BI-234L-4	40.	

BI-234L INTRODUCTORY MICROBIOLOGY LAB, 0 CREDIT

Lab course for BI-234 **Corequisites:** BI-234

Corequ	Corequisites: BI-234									
ос	BI-234L-01	336441 TTH		2:30 -3:50 PM						
	S. SOLL	\$0.00	\$0.00	\$0.00	\$0.00					
	Corequisite:	Take the following	BI-234-0	1.						

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

Course No	Course Title, Credits						
	Section No Instructor	Crs Reg.	Days (M,T, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total	
OC	BI-234L-20	336444	TTH		7:30 -8:	50 PM	
	M. PLUMMER		\$0.00	\$0.00	\$0.00	\$0.00	
	Corequisite: T	ake the	following	BI-234-2	0.		
ONL	BI-234L-40	336446	;				
	A. KAPILA		\$0.00	\$0.00	\$0.00	\$0.00	
	Corequisite: T	ake the	following	BI-234-4	0.		

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

ос	BA-101Z-01 33	36294 I	MW		10-11:50 A	М
	J. EICHENBERG	ER \$	504.00	\$52.00	\$5.00	\$561.00
OC HYB	BA-101Z-02 33	36298 \	W		1-2:50 PM	
	J. EICHENBERG	ER \$	504.00	\$52.00	\$5.00	\$561.00
ONL	BA-101Z-03 33	36300				
	S. PARKER	\$	504.00	\$52.00	\$5.00	\$561.00
ONL LCT	BA-101Z-04 33	36301				
	B. FORNEY	\$	504.00	\$52.00	\$5.00	\$561.00
REM	BA-101Z-05 33	36302 \	W		6-7:20 PM	
	K. HEINIG	\$	504.00	\$52.00	\$48.75	\$604.75
	Online textbook in	ncludeo	d in section	on 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

ONL	BA-104-01	336307
	J. AMAN	\$378.00 \$39.00 \$82.87 \$499.87
	Online textbo	ok included in section fees.

BA-111 GENERAL ACCOUNTING I, 3 CREDITS

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

Recommended Prerequisites: Placement in MTH-020

ос	BA-111-01 336	308 T		9-11:50 A	M	
	J. SAN-CLAIRE	\$378.00	\$39.00	\$114.99	\$531.99	
Online textbook included in section fees.						
ONL BA-111-02 336310						
	J. SAN-CLAIRE	\$378.00	\$39.00	\$114.99	\$531.99	
	Online textbook included in section fees.					

BA-112 GENERAL ACCOUNTING II, 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

2025/SF

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

Prerequisites: BA-111 or BA-211Z

Prerequisite or Corequisite: BA-131 or some knowledge of Excel

OC HYB	BA-112-01 336311 J. SAN-CLAIRE		311 W 9-11:50 /			AМ
			\$504.00	\$52.00	\$114.99	\$670.99
	Online textbook included in section fe					

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	BA-119-01	336312				
	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.

 $\ensuremath{\textbf{Recommended}}$: Working knowledge and access to MS Excel and MS Word

ONL	BA-120-01	336314			
	S. RAHN	\$504.00	\$52.00	\$0.00	\$556.00

BA-125 PROJECT MANAGEMENT PREP, 5 CREDITS

Tools and processes employed in the project knowledge areas of project communication, risk, procurement, and quality. Major topics include project communication planning and preferred communication channels and approaches; risk assessment and risk management in a project environment; project procurement planning and management with an emphasis on contract types and contract awards and administration; and approaches to project quality planning, quality assurance, control and improvement.

Prerequisite or Corequisite: BA-120

ONL	BA-125-01	336315			
	S. RAHN	\$630.00	\$65.00	\$0.00	\$695.00

BA-127 PROJECT MANAGEMENT: AGILE & CHANGE MANAGEMENT, 4 CREDITS

This course introduces students to the basic concepts and principles of Agile and Change Management. Students explore the foundation of the Agile approach for managing projects, the Agile Manifesto and Agile principles & values. Students work in small teams to experience an Agile project team environment. Value-driven delivery and adaptive project planning are defined. Students will gain an understanding in how being agile in business practices can ease the implementation of organizational change. This course will also instruct students in how to identify what drives organizational change and how to lead & communicate through change. Students will learn about creating and sustaining an organizational culture for change and moving forward.

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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

•	Section No Instructor	Crs Reg.	Davs (M.T.W.			
Prerequisi ONL	too: BA 120 an		Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
ONL	103. DA-120 an	d BA-12	5			
	BA-127-01 S. RAHN	336316	\$504.00	\$52.00	\$0.00	\$556.00
BA-131	INTRODUCTI	ΟΝ ΤΟ Β	BUSINES	s сомр	UTING, 4 CI	REDITS
Introductor	y course using	Microsof	t Word, E	xcel, Acc	ess, and	
PowerPoin	t applications to	o create l	ousiness o	documen	ts.	
	Access to the fe					
	r laptop with M					у
	or 10), Microso					Lob for
	email); or acces of coursework	s to the t	сс руе	Academi	computer	Lapior
•	nded Prerequi	sites: W	RD-090 o	r placem	ent in WRD-	098
ОС НУВ	BA-131-01	336319		Placent	10-11:50 A	
001110	F. MEYERS	330315		\$52.00	\$130.00	\$686.00
	Office 2021 ve	ersion is	+			+
	section fees.					
OC HYB	BA-131-02	336321	W		10-11:50 A	M
	F. MEYERS		\$504.00	\$52.00	\$130.00	\$686.00
	Office 2021 ve	ersion is	used. Onl	ine textb	ook included	l in
	section fees.					
REM	BA-131-03	336322		AFO OO	6-8:20 PM	****
	J. AMAN				\$130.00	\$686.00
	Office 2021 ve section fees.	ersion is	usea. Onl	ine textb	OOK INCIUDED	1 IN
ONL	BA-131-04	336324	1			
ONL.	K. HEINIG	330324		\$52.00	\$130.00	\$686.00
	Office 2021 ve	ersion is			+	
	section fees.					
ONL	BA-131-05	336325	;			
	D. HEINIG			\$52.00	\$130.00	\$686.00
	Office 2021 ve	ersion is	used. Onl	ine textb	ook included	l in
	section fees.					
ONL	BA-131-06	339950				
	D. HEINIG		+		\$130.00	\$686.00
	Office 2021 ve	ersion is	used. Onl	ine textb	ook included	In
	section fees.					

This course introduces the student to the basic payroll procedures and transactions that are necessary for recording business transactions that compensate personnel. Included in this introduction are wage, salary, and commission or bonus computation and recording, as well as coverage of the federal laws that affect payroll, taxation, and payroll deductions.

Prerequisites: BA-111 or BA-211Z

Recommended Prerequisites: BA-131 or some knowledge of Excel

ONL BA-177-01 336327

I. SETO \$378.00 \$39.00 \$118.78 \$535.78 Online textbook included in section fees.

BA-205 BUSINESS COMMUNICATIONS WITH TECHNOLOGY, 4 CREDITS

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

Recommended Prerequisites: BA-131 and WR-121Z

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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 ONL LCT BA-205-01 336329 C. CHATTERTON \$504.00 \$52.00 \$5.00 \$561.00

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BA-206 MANAGEMENT FUNDAMENTALS, 4 CREDITS

Concepts and theories of management with focus on planning, organizing, leading, and controlling. Decision making, planning principles, global management, managing people and teams, effective communication, and motivation are included.

Prerequisites: WRD-090 or placement in WRD-098 Recommended Prerequisites: BA-1017 and BA-251

necom	menueu Frerequ	Isites. DA-TOTZ and DA-201	
ONL	BA-206-01	336331	
	S. PARKER	\$504.00 \$52.00 \$0.00	\$556.00

BA-207 PREPPING FOR BUSINESS SUCCESS, 4 CREDITS

This courses introduces the CTE student (This course is ONLY being offered to Horticulture students for the Spring 2024 term) to the business practices necessary in conducting business within the scope of a specific CTE program. Students evaluate the business skills, traits, and commitment necessary to plan and operate a successful business venture. Students also learn how to evaluate small business opportunities, develop necessary business skills, and understand the resources necessary to start and manage a successful business.

Recommended Prerequisites: At least one Horticulture course within the Horticulture program

OC HYB LCT BA-207-01	336334	w		1-2:30 PM	l	
C. CHATTERT	ON	\$504.00	\$52.00	\$0.00	\$556.00	
	Class meets on April 2, 16, 30 and May 14, 28; additional work assigned and completed in Moodle.					

BA-211Z PRINCIPLES OF FINANCIAL ACCOUNTING, 4 CREDITS

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

Prerequisites: BA-101Z and BA-131

|--|

OC HYB	BA-211Z-01	336335 T		1-3:50 PM			
	I. SETO	\$504.00	\$52.00	\$60.00	\$616.00		
	Online textbo	ok included in sect	ion fees.				
ONL	BA-211Z-02	336337					
	K. JANICKI	\$504.00	\$52.00	\$60.00	\$616.00		
	Online textbook included in section fees.						

BA-213Z PRINCIPLES OF MANAGERIAL ACCOUNTING, 4 CREDITS

Builds an understanding of the role of managerial accounting in a business, focusing on the development and use of information to evaluate production costs and operational performance in support of short- and long-term organizational decision-making.

Prerequisites: BA-211Z with a C or better

OC HYB	BA-213Z-01	336339	М		1-3:50 PN	1		
	I. SETO		\$504.00	\$52.00	\$118.78	\$674.78		
	Online textboo	k include	ed in sect	ion fees.				
ONL	ONL BA-213Z-02 339951							
	J. SAN-CLAIR	E	\$504.00	\$52.00	\$118.78	\$674.78		
	Online textbook included in section fees.							

BA-216 COST ACCOUNTING, 4 CREDITS

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

Course	Listing	
Course No.	Course Title Credite	

Course NO	Course Thie, Ci	leuits				
	Section No	Crs Reg.	Days (M,T,	W,TH.F,S,SU)	Time	
	Instructor		Tuition	Fee	Crs. Fee	Total

Cost accounting extends the content of BA-213Z, which focused on managerial accounting. Specifically, job order and process costing are examined in depth, including: variances and cost estimations; standard and variable costing in the manufacturing environment; inventory and capacity analysis; customer-profitability analysis; spoilage, rework and scrap; and performance measurement.

Prerequisites: BA-213Z

ONL	BA-216-01	339952			
	T. FRANK	\$504.00	\$52.00	\$114.98	\$670.98
	Online textbo	ok included in sec	tion fees.		

BA-217 BUDGETING FOR MANAGERS, 3 CREDITS

Budgeting is a crucial managerial decision-making and planning tool that also incorporates performance evaluation through variance analysis. This course examines developing and managing department and project budgets in-depth, as well as how they fit into the overall organizational framework. Specifically, this course includes coverage of static, flexible, and rolling budgets, capital budgeting, variance analysis, break-even and contribution margin analysis, profit planning, manufacturing costs, sales forecasts, and cost behavior.

Prerequisites: BA-211Z

Recommended Prerequisites: BA-213Z or some experience in budgeting

ONL LCT	BA-217-01	336342	
	T. FRANK	\$378.00 \$39.00 \$5.00 \$422.00)

BA-218 PERSONAL FINANCE, 4 CREDITS

Analysis and application of basic principles of personal finance including budgeting and spending, financial decision-making, use of credit, saving and investing, home purchase, taxes, risk management, retirement planning, estate planning, and other major personal finance topics.

Prerequisites: BA-104 or MTH-050 or higher, and WRD-098

ONL	BA-218-01	336344			
	S. PARKER	\$504.00	\$52.00	\$0.00	\$556.00

BA-223 PRINCIPLES OF MARKETING, 4 CREDITS

Offers a comprehensive investigation of strategic marketing in a global environment. Topics covered will include research, ethics, consumer behavior, product strategy, distribution strategy, promotional strategy and pricing strategy.

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

ONL LCT	BA-223-01	336346			
	S. PARKER	\$504.00	\$52.00	\$5.00	\$561.00

BA-224 HUMAN RESOURCE MANAGEMENT, 4 CREDITS

Focuses on a practical, real world approach to Human Resource Management for line managers and Human Resource Managers. Introduces history and current legal environment of Human Resource Management and applies current practice in the functions of staffing, human resource development, compensation, safety and health, and employee and labor relations in both union and non-union environment.

ONL LCT BA-224-01 336349

M. MOISO \$504.00 \$52.00 \$44.00 \$600.00 Online textbook included in section fees.

BA-226 BUSINESS LAW I, 4 CREDITS

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.

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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 ONL BA-226-01 336352 M. MOISO \$504.00 \$52.00 \$49.62 \$605.62 Online textbook included in section fees.

BA-228 COMPUTERIZED ACCOUNTING, 3 CREDITS

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-111 or BA-211Z

ONL LCT	BA-228-01	336356			
	T. FRANK	\$378.00	\$39.00	\$39.00	\$456.00
	Online textbo	ok included in sec	tion fees.		

BA-229 EMPLOYMENT LAW, 4 CREDITS

Comprehensive treatment of federal and state employment law and its impact on the Human Resource Manager and Human Resource Management practices.

ONL	BA-229-01	336358				
	M. MOISO	9	\$504.00	\$52.00	\$49.61	\$605.61
	Online textboo	ok included	d in secti	on fees.		

BA-238 SALES, 4 CREDITS

Professional consultative selling techniques and how professional selling fits into a comprehensive marketing program as well as daily life. Interactive exercises will be used throughout the course that emphasize face-to-face communication skills and relationship building.

Recomm	nended Prerequ	isites: W	/RD-090 0	r placem	ent in vi	/RD-098
REM	BA-238-01	33635	9 TTH		10-11:	50 AM
	J. EICHENBE	ERGER	\$504.00	\$52.00	\$5.00	\$561.00

BA-240 INTRODUCTION TO FINANCIAL MANAGEMENT, 4 CREDITS

In this course, you will build upon knowledge obtained from BA-211Z to comprehend the process and practice of corporate financial management. Purchasing capital assets and undertaking projects require sound decision-making and management of risk, as well as a solid understanding of the time value of money. In this course, you will delve into discounted cash flow analysis for stocks and bonds, capital budgeting, the cost of capital, and effective corporate financial planning. Both theoretical and practical, our focus is on decisions that are made by the corporate financial manager.

Prerequisites: BA-211Z

OC HYB	BA-240-01	336361	М		4-5:50 PN	1
	J. AMAN		\$504.00	\$52.00	\$117.48	\$673.48
	Online textboo campus, Mono work is assign	day, Mar	ch 31st fro	om 4:00-		

BA-250 SMALL BUSINESS MANAGEMENT, 4 CREDITS

Focuses on entrepreneurship and small business management from business concept development to new business launch and key steps in between. Students integrate knowledge and skills from prior business coursework to create a substantive business plan or other projects that reinforce essential entrepreneurship and small business management concepts that are associated with this course. Students should take this course in the final year of their academic program(s).

Prerequisites: BA-101Z, BA-119, BA-131, BA-206, BA-213Z, BA-223, BA-224, and WR-121Z. Student Petition required for non-Business AAS students

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

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Course No	Course Title, Cr	edits					Course No	Course Title, C	redits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T,V Tuition	N,TH.F,S,SU) Fee	Time Crs. Fee	٦
ONL	BA-250-01	336363	;				REM	BA-268-01	336370	W		6-8:20 PM	
	S. PARKER		\$504.00	\$52.00	\$78.00	\$634.00		S. RAHN		\$378.00	\$39.00	\$5.00	\$42
	Online textboo	ok include	ed in sect	tion fees.				Required: Stud					

BA-254 BASIC COMPENSATION & BENEFITS, 4 CREDITS

Covers wages, salary benefits, and plans with a primary focus on designing an effective and strategic comprehension and benefit program within an organization. Covers general compensation topics, terminology, and practical applications to the workplace.

ONL BA-254-01 336365

M. MOISO \$504.00 \$52.00 \$44.00 \$600.00 Online textbook included in section fees.

GOVERNMENTAL AND NONPROFIT ACCOUNTING, 4 BA-255 CREDITS

Build upon knowledge obtained from financial accounting coursework to comprehend and gain practice in the specialized area of accounting for governmental and nonprofit entities. Topics include fund types, budgetary and expenditure controls, and modified accrual accounting. Prerequisites: BA-211Z

Recommended Prerequisites: BA-112 and BA-213Z

ONL BA-255-01 336366

J. SAN-CLAIRE	\$504.00	\$52.00	\$123.98	\$679.98
Online textbook includ	ded in sect	ion fees.		

BA-261 **CONSUMER BEHAVIOR, 4 CREDITS**

Seeks to understand how and why people make consumption decisions then apply this understanding to marketing strategies. Concepts of the consumer decision-making process, personal and interpersonal factors and their impact on consumer decisions are major components

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

ONL	BA-261-01	336367			
	J. EICHENBEI	RGER \$50	04.00 \$52.00	\$5.00	\$561.00

BA-264 PROJECT MANAGEMENT TOOLS, 3 CREDITS

This course introduces students to three tools used in managing projects: Microsoft Teams, Microsoft Planner, and Microsoft Project. Students examine the criteria for selecting the right project management tool for task management, work management, and project management. Students learn how to use these tools for communicating and collaborating with project team members and stakeholders; planning a project, adding project tasks, assigning resources and costs; building a project schedule, moving tasks to different phases, tracking project progress, and properly closing out a project. Students will also gain an understanding of how to share project information across applications using dashboards and reports. In addition, students will briefly explore cloud-based options as alternative project management tools.

Prerequisites: BA-120

Campus Locations:

OC: Oregon City Campus

ONL	BA-264-01	336369		
	S. RAHN	\$378.00	\$39.00 \$0.00	\$417.00

BA-268 APPLIED PROJECT DEMONSTRATION, 3 CREDITS

Students demonstrate the ability to manage a real-world project from initiation through closing. Course deliverables include project scope statement, communication management plan, risk management plan, status report with Gantt chart, and 'Lessons Learned' report and presentation. The project as well as a comprehensive exam will demonstrate knowledge acquired in prerequisite classes required for the Project Management AAS. Required: Student Petition.

Prerequisites: BA-120, BA-125, and BA-127

HAR: Harmony Community 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, Ci	redits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	N,TH.F,S,SU) Fee	Time Crs. Fee	Total
REM	BA-268-01	336370	W		6-8:20 PM	
	S. RAHN		\$378.00	\$39.00	\$5.00	\$422.00
	Required: Stuc teams) on zoor					
	Once teams ha	ave beer	assigned	d, the ins	tructor will c	reate a
	schedule to me					
	6:00-8:20pm c					
	will also be ass	signed ar	nd comple	eted onlir	ne via Mood	le.

BA-270 SOCIAL MEDIA MARKETING, 4 CREDITS

This is an introductory course that provides an overview of social media and its role in marketing. Nearly everything consumers do is tracked online and this level of marketing analytics is assisting organizations develop a better understanding of consumer and market needs and trends. This course will seek to develop an understanding to how social media compliments marketing.

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

ONL LCT	BA-270-01	336373	;			
	C. CHATTERT	ON	\$504.00	\$52.00	\$0.00	\$556.00

BA-280 BUSINESS/CWE, 2-6 CREDITS

Cooperative work experience. On-the-job experience in a business related to the student's major course of study. Under supervision of instructor and employer. May be repeated for up to 6 credits. Required: Student Petition.

Corequisites: CWE-281

ONL	BA-280-01 336374
	S. PARKER \$756.00 \$78.00 \$45.00 \$879.00V
	Required: Student Petition. Corequisite: Take the following
	CWE-281-06.
ONL	BA-280-02 336380
	B. FORNEY \$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	336381	
	M. MOISO	\$504.00 \$52.00 \$48.75	\$604.75
	Online textbo	ok included in section fees.	
ONL	BA-285-02	336383	
	J. HERNANDI	EZ \$504.00 \$52.00 \$48.75	\$604.75
	Online textbo	ok 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	336385				
	S. SIMMONS		\$252.00	\$26.00	\$10.00	\$288.00
ONL	BT-120-02	336388				
	S. SIMMONS		\$252.00	\$26.00	\$10.00	\$288.00

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

Course	Listing												2025/SP
Course No	Course Title, C	redits					Course No	Course Title,	Credits				
	Section No Instructor	Crs Reg.	Days (M,T,) Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T Tuition	,W,TH.F,S,SU) Fee	Time Crs. Fee	Total
BT-121	DATA ENTR	Y, 1 CRE	DIT				BT-161	WORD II, 3 (REDITS				

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 a		ance, banking and finance, and any other input.	
ONL	BT-121-01 S. SIMMONS	336389 \$126.00 \$13.00 \$10.00 \$149.0	0

ONL	BT-121-02	336394				
	S. SIMMONS		\$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	336395	\$252.00	\$26.00	\$10.00	\$288.00
ONL	BT-122-02 S. SIMMONS	336401	\$252.00	\$26.00	\$10.00	\$288.00

BT-124 BUSINESS EDITING I, 3 CREDITS

Course builds business communication skills through the study of the written communication process and the correct use of grammar, spelling, vocabulary, types of written business communication, and basic editing principles.

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

ONL	BT-124-01	339953			
	S. SIMMONS	\$378.00	\$39.00	\$10.00	\$427.00

BT-125 BUSINESS EDITING II, 3 CREDITS

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

Prerequisites: BT-124 with a C or better

ONL	BT-125-01	340177			
	S. SIMMONS	\$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	339954
	F. MEYERS	\$378.00 \$39.00 \$119.99 \$536.99
	Office 2019 ve section fees.	rsion is used. Online textbook included in

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

Recommended Prerequisites: BT-124 and 35 words per minute typing skill						
ONL	BT-161-01	36403				
	F. MEYERS	\$378.00 \$39.00 \$119.99 \$536	.99			
	Office 2021 vers	ion is used. Online textbook included in				

This is an intermediate-level course where students learn more

is designed for students who have completed BT-160.

Computer Lab for coursework

Prerequisites: BT-160 with a C or better

section fees.

advanced features of the Microsoft Word software program. The course

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

BT-174 MICROSOFT DIGITAL TOOLS FOR THE PROFESSIONAL, 2 CREDITS

Introductory course utilizing Microsoft Office 365 digital communication and collaboration tools. The material taught in this course teaches the necessary skills required in business environments that use Outlook integrated with additional Office 365 complementary digital communication and collaboration tools.

ONL	BT-174-01	336405				
	M. SORRENT	NO	\$252.00	\$26.00	\$62.50	\$340.50
	Online textbook included in section fees					

BT-271 ADVANCED BUSINESS PROJECTS, 4 CREDITS

This is a capstone course for the Administrative Professional AAS. Students will utilize processes, tools, and techniques as used by an administrative professional managing a project or event. Students will practice oral and written communication as used in an office or business setting. In addition students will analyze information, problem solve, make decisions, establish priorities, and use time management skills in this capstone course that combines the knowledge and skills acquired in foundation administrative professional courses such as word processing, creating spreadsheets, creating databases, creating presentations; as well as document formatting, proofreading, and editing.

Prerequisites: BA-131, BT-120, BT-125, BT-160, BT-262, and CS-135S

ONL LCT	BT-271-01	336406				
	B. FORNEY	\$5	04.00	\$52.00	\$35.00	\$591.00
	Required: Stud	Student Petition.				

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

ONL	CH-104-40 3364	50			
	S. MCDONALD	\$630.00	\$65.00	\$50.00	\$745.00
	This section requires Corequisite: Take th				

CH-104L INTRODUCTORY CHEMISTRY LAB, 0 CREDIT

Lab course for CH-104

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

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

Corequisites: CH-104 and CH-104S

OC LCT	CH-104L-40	336456 TBA			
	TBA	\$0.00	\$0.00	\$0.00	\$0.00
	complete 3 h City campus. AM- 3PM, an contact Georg	en format lab and rs of lab work per Open lab hours a d Thursdays: 9 Al ge Burgess georg Fake the following	week in [are Wedno M- 8PM. I e.burges	DJ242 on th esdays & Fi For more in s@clackam	e OR ridays: 9 formation as.edu

CH-104S INTRODUCTORY CHEMISTRY SEMINAR, 0 CREDIT

Seminar course for CH-104

Corequisites: CH-104 and CH-104L

ос	CH-104S-40 3364	58 TH		11-11:50	AM
	S. MCDONALD	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take th	e following	CH-104-	40, CH-104	1L-40.

CH-105 INTRODUCTORY CHEMISTRY, 5 CREDITS

A lab course discussing heat; molecular and ionic interactions in solids, liquids, gases, and solutions; chemical reactions including acid-base, electron transfer, and equilibrium.

Prerequisites: CH-104

Corequisites: CH-105L and CH-105S

ONL CH-105-40 336461 X. DONG \$630.00 \$65.00 \$50.00 \$745.00 This section requires an in-person lab and seminar. For more information contact George Burgess george.burgess@clackamas.edu Corequisite: Take the following CH-105S-40, CH-105L-40.

CH-105L INTRODUCTORY CHEMISTRY LAB, 0 CREDIT

Lab course for CH-105

Corequisites: CH-105 and CH-105S

 OC LCT
 CH-105L-40
 336465 TBA

 TBA
 \$0.00
 \$0.00
 \$0.00

 This is an open format lab and students are required to complete 3 hrs of lab work per week in DJ242 on the OR City campus. Open lab hours are Wednesdays & Fridays: 9
 AM- 3PM, and Thursdays: 9 AM- 8PM. For more information contact George Burgess george.burgess@clackamas.edu Corequisite: Take the following CH-105-40, CH-105S-40.

CH-105S INTRODUCTORY CHEMISTRY SEMINAR, 0 CREDIT

Seminar course for CH-105

Corequisites: CH-105 and CH-105L

OC LCT	CH-105S-40	336466 TH	3-3:50 PM		Л	
	X. DONG	\$0.00	\$0.00	\$0.00	\$0.00	
	Corequisite: Take the following CH-104-40, CH-104L-40.					
CH-106	INTRODUCT	ORY CHEMISTR	Y, 5 CRE	DITS		

A lab course discussing organic and biochemistry.

Prerequisites: CH-105

Corequisites: CH-106L and CH-106S

oc CH-106-01 336467 MW 2-3:20 PM G. BURGESS \$630.00 \$65.00 \$50.00 \$745.00 This section requires a face-to-face lab and seminar. Corequisite: Take the following CH-106L-01, CH-106S-01.

CH-106L INTRODUCTORY CHEMISTRY LAB, 0 CREDIT

Lab course for CH-106

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

2025/SF

Course No	Course Title, C					
	Section No Instructor	Crs Reg.	Days (M,T Tuition	,W,TH.F,S,SU Fee	Time Crs. Fee	Total
Corequisit	es: CH-106 and	I CH-106	S			
OC LCT	CH-106L-01	336470	тва			
	G. BURGESS		\$0.00	\$0.00	\$0.00	\$0.00
	This is an oper					
	complete 3 hrs	of lah w	ork ner i	week in D	1242 on the	AOB د

I his is an open format lab and students are required to
complete 3 hrs of lab work per week in DJ242 on the OR
City campus. Open lab hours are Wednesdays & Fridays: 9
AM- 3PM, and Thursdays: 9 AM- 8PM. For more information
contact George Burgess george.burgess@clackamas.edu
Corequisite: Take the following CH-106-01, CH-106S-01.

CH-106S INTRODUCTORY CHEMISTRY SEMINAR, 0 CREDIT

Seminar course for CH-106

OC LCT	CH-106S-01 33	6471 TH		1-1:50 P	M
	G. BURGESS	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take	the following	CH-106-	01, CH-10	6L-01.

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 HYB	CH-112-01	336472 MW	10-11:20	AM
	N. DAS	\$504.00	\$52.00 \$50.00	\$606.00
	Corequisite: Ta 02.	ake 1 of the following	ng CH-112L-01, C	H-112L-
ONL	CH-112-15	336475		
	D. PAUL	\$504.00	\$52.00 \$50.00	\$606.00
		as an in-person lab ving CH-112L-15.	requirement. Cor	equisite:
ONL	CH-112-20	340060		
	D. PAUL	\$504.00	\$52.00 \$50.00	\$606.00
	Corequisite: Ta	ake the following C	H-112L-20.	
ONL	CH-112-40	336476		
	E. FRANCIS	\$504.00	\$52.00 \$50.00	\$606.00
	Corequisite: Ta	ake the following C	H-112L-40.	

CH-112L CHEMISTRY FOR HEALTH SCIENCES LAB, 0 CREDIT

Lab course for CH-112

Corea	uisites:	CH-112

ос	CH-112L-01	336477 W		2-4:50 PM	
	N. DAS	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: 1	Take the following	CH-112-	01.	
oc	CH-112L-02	336480 TH		2-4:50 PM	
	N. DAS	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: 1	Take the following	CH-112-	01.	
HAR	CH-112L-15	336483 TH		1-3:50 PM	
	D. PAUL	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: 1	Take the following	CH-112-	15.	
OC	CH-112L-20	340061 TH		6-8:50 PM	
	D. PAUL	\$0.00	\$0.00	\$0.00	\$0.00
ONL	CH-112L-40	336485			
	E. FRANCIS	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: 1	Take the following	CH-112-	40.	

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

	Listing							o T itl	0				
Course No	Course Title, C Section No		Days (M,T,W,TH.F,	S SIN .	Time		Course No	Course Title, Section No			,W,TH.F,S,SU)	Time	
	Instructor	crs neg.	Tuition Fee		Crs. Fee	Total		Instructor	CIS Neg	Tuition	Fee	Crs. Fee	Total
CH-150	PREPARATO	ORY CHE	EMISTRY, 4 C	REDI	тѕ		OC	CH-223-01	336503		¢05.00	10-10:50	
	preparatory cou					eral		D. MYERS Corequisite:	Take the		\$65.00 CH-223L		\$745.0 3S-01
	sequence (CH-	221/222/	223) but have	no ch	nemistry		ONL LCT	CH-223-40	336505		OTT ZZOŁ		0 01.
backgroun	tes: CH-150S							J. DU BOUL		•	\$65.00		\$745.0
	ites: MTH-095	or placer	nent in MTH-1	11Z				This section Corequisite:					
ONL LCT	CH-150-01	336486						Corequisite.	Take the	lollowing	011-2201	-40, 011-220	50-40.
	X. DONG		\$504.00 \$52	2.00	\$20.00	\$576.00	CH-223L	GENERAL (CHEMIST	RY LAB,	0 CREDI	т	
			-person semin following CH- ⁻					e for CH-223		_			
	Corequisite.	are life		1503-	01.		Corequisit	t es: CH-223 a	nd CH-22	3S			
CH-150S	PREPARATO	DRY CHE	EMISTRY SEN	/INAF	R, 0 CREDI	т	oc	CH-223L-01	336507		¢0.00	1-3:50 PM	
Seminar co	ourse for CH-15	50						D. MYERS Corequisite:	Take the	\$0.00 following	\$0.00 CH-223-0	\$0.00 1 CH-223	\$0.0 5-01
Corequisit	tes: CH-150						ос	CH-223L-40		-	011 220 0	2-4:50 PM	
oc	CH-150S-01	336487			9-9:50 AM			J. DU BOUL		\$0.00	\$0.00	\$0.00	\$0.00
	X. DONG	Taka tha	\$0.00 \$0. following CH-		\$0.00 1	\$0.00		Corequisite:	I ake the	following	CH-223-4	10, CH-223	5-40.
	Corequisite.	are the		130-0	1.		CH-223S	GENERAL (CHEMIST	RY SEMI	NAR, 0 C	REDIT	
CH-222	GENERAL C	HEMIST	RY, 5 CREDIT	ſS			Seminar co	ourse for CH-2	23				
	se discussing b						Corequisit	t es: CH-223 a	nd CH-22	3L			
• •	and bonding the operties of solut		,				ос	CH-223S-01	336511	w		12-12:50 I	РМ
• • •	ites: CH-221 w			mour	oquiionum	•		D. MYERS	T . I II	\$0.00	\$0.00	\$0.00	\$0.0
Corequisit	t es: CH-222L a	nd CH-2	22S				ос	Corequisite: CH-223S-40			CH-223L	1-1:50 PM	
OC LCT	CH-222-01	336488	3 MWF		10-10:50 A	M		J. DU BOUL		\$0.00	\$0.00	\$0.00	\$0.00
		\$745.00		Corequisite:	Take the	following	CH-223-4	10, CH-223I	40.				
Corequisite: Take the following CH-222L-01, CH-222S-01. ONL CH-222-40 336492		S-01.	CH-243	ORGANIC C	чемісті	2V III 5 C	BEDITS						
ONL	D. MYERS	330492		5.00	\$50.00	\$745.00		of a transfer s				emistry	
			an in-person s					nt for premedia					ractic
	Corequisite: 1	ake the	following CH-2	222L-4	40, CH-222	S-40.		chemical engir	neering ar	d biology	majors.		
CH-222L	GENERAL C	HEMIST	RY LAB, 0 CF	REDIT			•	ites: CH-242		120			
Lab course	e for CH-222						•	tes: CH-243L				4 0-00 DM	
Corequisit	t es: CH-222 an	d CH-22	2S				oc	CH-243-01 E. FRANCIS	336516		\$65.00	1-2:20 PM \$50 00	\$745.00
ос	CH-222L-01	336494	ŧт		9-11:50 AN	Л		Corequisite:					
	S. MCDONAL		\$0.00 \$0.		\$0.00	\$0.00	011 0401						
ос	Corequisite: 1 CH-222L-40	336496	following CH-2		1-3:50 PM	b-01.	CH-243L	ORGANIC C e for CH-243	, TEINIS I I		D, U CREI		
	D. MYERS	000100			\$0.00	\$0.00		t es: CH-243 a	nd CH-24	25			
	Corequisite: 7	ake the	following CH-2	222-40	0, CH-222S	6-40.	oc	CH-243L-01	336518			9-11:50 A	м
CH-222S	GENERAL C	HEMIST	RY SEMINAR	. 0 CF	REDIT			E. FRANCIS		\$0.00	\$0.00	\$0.00	\$0.00
•	ourse for CH-22			,				Corequisite:	Take the	following	CH-243-0	01, CH-243	S-01.
Seminar co	tes: CH-222 an		2L				CH-243S	ORGANIC C	чемісті				
		336498	зтн		9-9:50 AM			ourse for CH-2			intAn, o	ONEDIT	
	CH-222S-01		\$0.00 \$0.		\$0.00	\$0.00		t es: CH-243 a		3L			
Corequisit	S. MCDONAL			222-0.	1, CH-222L	01.	ONL	CH-243S-01	336520				
Corequisit oc	S. MCDONAL Corequisite: 7	ake the	following CH-2								** **	** **	\$0.0
Corequisi	S. MCDONAL Corequisite: 7 CH-222S-40		D W		2-2:50 PM	\$0.00		E. FRANCIS		\$0.00	\$0.00	\$0.00	φ0.0
Corequisit oc	S. MCDONAL Corequisite: 7 CH-222S-40 D. MYERS	ake the 336500	-	00	2-2:50 PM \$0.00	\$0.00 -40.		E. FRANCIS Corequisite:				*	
Corequisit oc oc	S. MCDONAL Corequisite: 7 CH-222S-40 D. MYERS Corequisite: 7	ake the 336500 ake the	0 W \$0.00 \$0. following CH-2	00 222-40	2-2:50 PM \$0.00			Corequisite:	Take the	following	CH-243L	*	
Corequisit oc oc CH-223	S. MCDONAL Corequisite: 7 CH-222S-40 D. MYERS Corequisite: 7 GENERAL C	Take the 336500 Take the HEMIST	0 W \$0.00 \$0. following CH-2 RY, 5 CREDIT	00 222-40	2-2:50 PM \$0.00 0, CH-222L	-40.			Take the	following	CH-243L	*	
Corequisit oc oc CH-223 A lab cours electroche	S. MCDONAL Corequisite: 7 CH-222S-40 D. MYERS Corequisite: 7 GENERAL C se discussing s mistry, nuclear	Take the 336500 Take the HEMIST tates of r chemistr	D W \$0.00 \$0. following CH-2 RY, 5 CREDIT natter, solution y, and spectro	00 222-40 T S ns, ac	2-2:50 PM \$0.00 0, CH-222L ids and bas	-40. ses,		Corequisite:	Take the	following	CH-243L	-01, CH-243	
Corequisit oc oc CH-223 A lab cours electroche organic ch	S. MCDONAL Corequisite: 7 CH-222S-40 D. MYERS Corequisite: 7 GENERAL C se discussing s mistry, nuclear emistry and bio	ake the 336500 ake the HEMIST tates of r chemistr chemistr	W \$0.00 \$0. following CH-2 RY, 5 CREDIT natter, solutior y, and spectro y are introduce	00 222-40 T S ns, ac	2-2:50 PM \$0.00 0, CH-222L ids and bas	-40. ses,	College EL-103 Designed t	Corequisite: and Car TAKING EF to help studen:	Take the eer Gu FECTIVE	following idance NOTES, effective	CH-243L 1 CREDI note-taki	-01, CH-243	3-01.
Corequisit oc oc CH-223 A lab cours electroche organic ch Prerequisi	S. MCDONAL Corequisite: 7 CH-222S-40 D. MYERS Corequisite: 7 GENERAL C se discussing s mistry, nuclear	Take the 336500 Take the HEMIST tates of r chemistr chemistr chemistr	W \$0.00 \$0. following CH-2 RY, 5 CREDIT matter, solution y, and spectro y are introduce r better	00 222-40 T S ns, ac	2-2:50 PM \$0.00 0, CH-222L ids and bas	-40. ses,	College EL-103 Designed t note-taking	Corequisite: and Car TAKING EF	Take the eer Gu FECTIVE ts develop introduced	following idance NOTES, effective d and prad	CH-243L 1 CREDI note-taki cticed.	-01, CH-243	3-01.

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

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

ESPAÑOL: Enseñado en español LCT: Low-Cost Text

\$745.00

\$745.00

\$0.00

\$0.00

\$0.00

\$0.00

\$745.00

\$0.00

\$0.00

Course No	Course Title, Credits						
	Section No Instructor	Crs Reg.	Days (M,T,W Tuition	/,TH.F,S,SU) Fee	Time Crs. Fee	Total	
ONL	EL-103-13	336463					
	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:** Placement in WRD-090 or higher

OC HYB LCT EL-111-01 336464 T 1-2:50 PM B. MALONEY \$378.00 \$39.00 \$15.00 \$432.00 Meets: 4/15-6/14.

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	HD-102-01	336562				
	J. GINSBURG		\$756.00	\$78.00	\$0.00	\$834.00V
	Required: Stu	dent Peti	tion.			

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.

ос	HD-138-01	336563 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	HD-140-01	336567	,				
	T. BOYLE-	-	\$378.00	\$39.00	\$10.00	\$4	127.00
	GALESTIANT	Z					

HD-144 ASSERTIVENESS, 1 CREDIT

ONL

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.

HD-144-01	340257	,			
M. MALLATT		\$126.00	\$13.00	\$10.00	\$149.00
Meets: 4/14-4/	/28.				

HD-147 DECISION MAKING, 1 CREDIT

Develop and improve the personal process for making healthy, satisfying choices. The basics of decision-making and processes for making personal, social, and work choices are included. Use this class for current decision needs.

ONL	HD-147-01	336577	,			
	L. MARTINEZ		\$126.00	\$13.00	\$10.00	\$149.00
	Meets: 5/12-5/	26.				

HD-161 MULTICULTURAL AWARENESS, 3 CREDITS

Course No	Course Title, C	redits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
Introduction	to the skills an	d person	al attribut	es colleg	e graduates	s need

2025/S

to live and work in a diverse world, and how these characteristics influence interpersonal relationships in everyday life. This course focuses on the identification and application of strategies to improve personal multicultural awareness.

ONL	HD-161-01	336586			
	J. CORTES	\$378.00	\$39.00	\$10.00	\$427.00

HD-209 JOB SEARCH SKILLS, 2 CREDITS

Use a Job Search Plan to conduct labor market research, develop job search networking relationships, and to prepare and present applications, cover letters, resumes, interviews, and thank you notes.

ос	HD-209-01	336589 TH	336589 TH		10-11:50 AM	
	C. SIMS	\$252.00	\$26.00	\$0.00	\$278.00	
	Required: St	udent Petition.				

HD-222 LEADERSHIP: MANAGING CHANGE AND CONNECTING TO COMMUNITY, 2 CREDITS

Strengthens leadership skills with an emphasis on managing change and connecting to community. Continues exploration of aspects of emotional intelligence, such as consciousness of others, displaying empathy, and developing relationships. Includes planning, implementation and assessment of activities focused on the college community and beyond. 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.

ос	HD-222-01	336592	М		3-4:50 PM	
	M. BAKER		\$0.00	\$0.00	\$0.00	\$0.00
REM	HD-222-02	336594	TH		8-9:50 AM	
	J. GINSBURG		\$0.00	\$0.00	\$0.00	\$0.00
ос	HD-222-03	336597	М		3-4:50 PM	
	M. BAKER		\$252.00	\$26.00	\$0.00	\$278.00
REM	HD-222-04	336599	TH		8-9:50 AM	
	J. GINSBURG		\$252.00	\$26.00	\$0.00	\$278.00

Communication Studies

COMM- INTRODUCCIÓN A LA COMUNICACIÓN, 4 CREDITS 100ESZ

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

00	COMM-	339929	TTH		6-7:50 PM		
ESPAÑOL	100ESZ-01						
	J COBTES		\$504.00	\$52.00	\$0.00	\$556.00	

COMM- INTRODUCTION TO COMMUNICATION, 4 CREDITS 100Z

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

ос	COMM-100Z- 01	335901 MW	/	3-4:50 PM	
	L. HANN		4.00 \$52.00		\$556.00
OC LCT	COMM-100Z- 02	335904 TTI	H	10-11:50 A	AM
	L. HANN	\$50	4.00 \$52.00	\$0.00	\$556.00
oc	COMM-100Z- 03	339925 TTI	Н	1-2:50 PM	
	L. HANN	\$50	4.00 \$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

Course	Listing												2025/SP
Course No	o Course Title, Credits			Course No	Course Title, 0	Credits							
	Section No Instructor	Crs Reg.	Days (M,T,) Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total
COMM-	HABLANDO		LICO. 4 (CREDITS			This course	e takes student	s through	a critica	study of	the produ	uction and

oc

COMM-

218Z

111ESZ

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

Prerequisites: WR-124ES

REM	COMM-	339930	ТТН		5-6:50 PM	
ESPAÑOL	111ESZ-01		* = • • • •	*-0 0 0	*****	* - -- • •
	A. MOSEY		\$504.00	\$52.00	\$20.00	\$576.00

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

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

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

Recommended Prerequisite or Corequisite: FYE-101

REM LCT	COMM-111Z- 01	335905	MW		8-9:50 AM	
OC LCT	J. SMITH COMM-111Z- 02	335910	\$504.00 TTH	\$52.00	\$20.00 8-9:50 AM	\$576.00
REM LCT	K. MCCONNEL COMM-111Z- 03	L 335912	\$504.00 TTH	\$52.00	\$20.00 8-9:50 AM	\$576.00
OC LCT	J. HULT COMM-111Z-	335914	\$504.00 MW	\$52.00	\$20.00 10-11:50 A	\$576.00 M
OC LCT	04 TBA COMM-111Z-	335917	\$504.00 MW	\$52.00	\$20.00 10-11:50 A	\$576.00 M
	A. SAMBOR COMM-111Z-		\$504.00	\$52.00	\$20.00	\$576.00
	J. SMITH COMM-111Z-		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	07 K. MCCONNEL COMM-111Z- 08	L 335924	\$504.00 TTH	\$52.00	\$20.00 10-11:50 A	\$576.00 M
	A. SAMBOR COMM-111Z-		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	09 J. HULT COMM-111Z-	335928	\$504.00 MW	\$52.00	\$20.00 1-2:50 PM	\$576.00
ос	L. HANN COMM-111Z-		\$504.00	\$52.00	\$20.00	\$576.00
REM	11 A. SAMBOR COMM-111Z-	339927	\$504.00 TTH	\$52.00	\$20.00 6-7:50 PM	\$576.00
	12 J. SMITH		\$504.00	\$52.00	\$20.00	\$576.00
	COMM-111Z- 30 K. DOSS		\$504.00	\$52.00	\$20.00	\$576.00
HAR LCT	COMM-111Z- 31 K. DOSS	335932	MW		6-7:50 PM	

сомм-MASS MEDIA & SOCIETY, 4 CREDITS 212

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

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

ESPAÑOL: Enseñado en español LCT: Low-Cost Text

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

communication skills to better understand oneself, others, and the role of

consumption of mass media, including television, radio, books, film,

and social organization of mass media, the growth of new media

technologies, and the relationship between media and the public.

COMM-218Z increases the knowledge and use of competent

COMM-212-01 335937 T

communication in interpersonal relationships.

M. JONES

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

news, advertising and the internet. Students also examine the economic

6-9:50 PM

\$566.00

\$504.00 \$52.00 \$10.00

OC LCT	COMM-218Z- 01	335940 MW		10-11:50 A	M
	J. HULT	\$504.00	\$52.00	\$0.00	\$556.00
HAR LCT	COMM-218Z- 30	335942 TTH		10-11:50 A	M
	M. WILLIAMS	\$504.00	\$52.00	\$0.00	\$556.00

INTERPERSONAL COMMUNICATION, 4 CREDITS

Computer Science

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

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

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

ONL	CS-120-30	335949			
	M. SORRENT	INO \$504.	00 \$52.00	\$20.00	\$576.00

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 ONI

CS-125H-30 335952 M. SORRENTINO \$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

ONL	CS-135DB-30	335957			
	D. CARINO	\$378.00	\$39.00	\$20.00	\$437.00

CS-135S MICROSOFT EXCEL, 3 CREDITS

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

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-30	335959			
	D. CARINO	\$378.00	\$39.00	\$20.00	\$437.00

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

Prerequisites: MTH-060 or placement in MTH-065

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

OC HYB LCT CS-140-01	335961 W		1-2:50 P					
	M		1-2:50 P	M				
R. CARINO	\$504.00	\$52.00	\$20.00	\$576.00				
	Class meets Mondays remote via Zoom from 1:00-2:50pm. Class meets in-person on campus Wednesdays from 1:00-							
2:50pm.			ooddyo iii					

CS-152 NETWORKING 2, 4 CREDITS

This course focuses on switching technologies and router operations that support small-to-medium business networks. It includes wireless local area networks (WLANs) and security concepts. This course, along with CS-151 and CS-153, covers the topics of the Cisco CCNA certification exam.

Prerequisites: CS-151

OC HYB LCT	CS-152-01	335963	т		1-2:50 I	РМ
			тн		1-2:50 I	РМ
	R. CARINO		\$504.00	\$52.00	\$20.00	\$576.00
	Class meets T	uesdays	remote v	ia Zoom	from 1:0	0-2:50pm.
Class meets in-person on campus Thursdays from 1:00-						
	2:50pm.					

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	335965 TTH		1-3:50 I	РМ
	R. ALBERS	\$504.00	\$52.00	\$20.00	\$576.00
ONL LCT	CS-160-02	335968			
	R. ALBERS	\$504.00	\$52.00	\$20.00	\$576.00

CS-162 COMPUTER SCIENCE II, 4 CREDITS

Introduces fundamental concepts of object oriented programming and dynamic memory management. Covers objects, classes, pointers, dynamic memory allocation, linked lists, and program correctness, verification, and testing.

Prerequisites: CS-161

ос	CS-162-01	335969 TTH	10-11:50 AM		0 AM
	R. ALBERS	\$504.00	\$52.00	\$20.00	\$576.00

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Course No	Course Title, Credits					
	Section No Instructor	Crs Reg.	Days (M,T,) Tuition	N,TH.F,S,SU) Fee	Time Crs. Fee	Total
ONL	CS-162-02	335970				
	R. ALBERS		\$504.00	\$52.00	\$20.00	\$576.00
ONL	CS-162-03	335971				
	R. ALBERS		\$504.00	\$52.00	\$20.00	\$576.00

CS-225 COMPUTER END USER SUPPORT, 3 CREDITS

Course No. Course Title Credite

Addresses professional and interpersonal skills needed by technicians who support and manage hardware and software information systems. Customer service skills; troubleshooting; helpdesk operation; product needs analysis, evaluation, purchase, and installation; technical documentation and training.

Prerequisites: CS-120 or placement in CS-121 or equivalent experience **Prerequisites:** WRD-098 or placement in WR-101 or WR-121Z

ONL	CS-225-30	335972			
	R. MCMILLEN	\$378.00	\$39.00	\$20.00	\$437.00

CS-233J FRONT-END JAVASCRIPT II, 4 CREDITS

In-depth exploration of creating dynamic front-end website designs using modern JavaScript libraries and frameworks, including jQuery. Topics covered include shortcut DOM techniques, updated looping techniques, creating animation effects, and building AJAX applications using data from provided code as well as web APIs (Google, YouTube, Imgur). **Prerequisites:** CS-133J

ос нув CS-233J-01 335975 W 10-11:50 AM M 10-11:50 AM D. CARINO \$504.00 \$52.00 \$20.00 \$576.00 Class meets Mondays remote via Zoom from 10:00-11:50am. Class meets in-person on campus Wednesdays

from 10:00-11:50am.

CS-234P PHP/MYSQL WEB DEVELOPMENT, 4 CREDITS

Use PHP and MySQL to develop dynamic web sites for use on the Internet. Develop web sites ranging from simple online information forms to complex online applications. Introduce programming fundamentals including variables, control structures, functions and objects. Applications developed use MySQL as the backend database and will explore database connectivity, querying, and security.

Prerequisites: CS-125H

Recommended Prerequisites: CS-275

OC HYB	CS-234P-01	335977 W	1-2:20	PM			
		Μ	1-2:20	PM			
	D. CARINO	\$504.00	\$52.00 \$20.00	\$576.00			
	Class meets M	/londays remote vi	a Zoom from 1:0	00-2:20pm.			
	Class meets in-person on campus Wednesdays from 1:00-						
	2:20pm.						

CS-240L LINUX ADMINISTRATION I, 4 CREDITS

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	CS-240L-30	335980			
	R. CARINO	\$504.00	\$52.00	\$20.00	\$576.00

CS-251 DISCRETE STRUCTURES II, 4 CREDITS

Course	Listing								2
Course No	Course Title, Credits			(Course No	Course Title, Cr	edits		
	Section No Crs Re Instructor	J. 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	J) Time Crs. Fee

Continuation of the introduction to discrete structures and techniques for computing started in CS-250. The course, which is the second in the two-term sequence, aims to convey the skills in discrete mathematics that are used in the study and practice of computer science. Topics include: Logic: propositional calculus, first-order predicate calculus; Formal reasoning: natural deduction, resolution; Applications to program correctness and automatic reasoning; Introduction to algebraic structures in computing.

Prerequisites: CS-250

ONL	CS-251-01	335982
	J. MILLER	\$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	335983	
	J. MILLER	\$504.00 \$52.00 \$20.00 \$57	6.00
ONL	CS-260-02	335986	
	J. MILLER	\$504.00 \$52.00 \$20.00 \$57	76.00

CS-279W WINDOWS SERVER ADMINISTRATION, 4 CREDITS

Covers the fundamentals of installing, configuring, troubleshooting, and supporting the Microsoft Windows Server operating system and network infrastructure. Topics include: installation, Active Directory, data storage, resource access, security, monitoring, and disaster recovery. This course introduces the topics of the Microsoft Installation, Storage, and Compute with Windows Server certification exam.

Prerequisites: CS-151 and CS-240W

ONL	CS-279W-30	335987				
	R. MCMILLEN		\$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	CS-280-01	335989
	J. MILLER	\$756.00 \$78.00 \$45.00 \$879.00V
	students. Co	udent Petition. Restricted to Computer Science ntact: jen.miller@clackamas.edu or 503-594- uisite: Take the following CWE-281-05.

CS-297N NETWORKING CAPSTONE, 4 CREDITS

The capstone course for the Computer & Network Administration AAS. Provides the opportunity to combine the discrete information learned from program classes together towards the completion of an enterpriselevel computer project. Focus can also be placed on researching, practicing, and obtaining an industry-standard certification credential. Emphasis will be placed on project planning, timeline management, creation of training documentation, and oral presentation of completed works. Required: Student Petition.

OC LCT	CS-297N-01	335994 T		10-11:5	50 AM
		TH		10-11:5	50 AM
	R. CARINO	\$504.00	\$52.00	\$20.00	\$576.00

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile Training Center OFF: Other Off-Campus Location Distance Education Notification: ONL: Online Only REM: Remote (w/ scheduled meetings) HYB: In-person plus online work

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

Other Coding Translations:

ESPAÑOL: Enseñado en español **LCT:** Low-Cost Text

CS-297W WEBSITE CAPSTONE, 3 CREDITS

Provides the opportunity to function in a production design environment, work cooperatively with students from other focus areas, and research emerging website technologies. Emphasis will be placed on client interaction, project teams, and accountability, as well as the development of a professional portfolio web site or completion of a research project in an emerging web-related technology.

Prerequisites: CS-133J and CS-135I

OC HYB LCT CS-297W-01	335997 T	10-11:20 AM
	TH	10-11:20 AM
D. CARINO	\$378.00	\$39.00 \$20.00 \$437.00
	ss meets Thursday	us Tuesdays from 10:00- ys remote via Zoom from

Computer-Aided Drafting Technology

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

CDT-225 ADVANCED SOLIDWORKS, 3 CREDITS

Advanced features of SolidWorks will be discussed and problems will be worked that exemplify them. Subjects include equations, configurations, design tables and dynamics. Required: Student Petition.

Prerequisites: CDT-108A

REM	CDT-225-01	336447	ттн		4:30 -7:2	0 PM
	M. ROTUNDO		\$378.00	\$39.00	\$153.75	\$570.75
	Required: Stud	lent Peti	ition.			

CDT-240 REVIT FOR ARCHITECTURE, 3 CREDITS

Introduction to the basic principles in Revit for architecture and construction. Students create floorplans using walls, doors, and windows; add furniture fixtures, curtain walls, floors, ceiling grids, and generate elevations, sections, details, and schedules directly from the model.

ONL	CDT-240-01	336449				
	M. ROTUNDO		\$378.00	\$39.00	\$0.00	\$417.00

Cooperative Work Experience

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

REM	CWE-281-02	335853 W		2-2:50 PM	
	M. LAFORCE	\$0.00	\$0.00	\$0.00	\$0.00

2025/SI

Total

Course No	Course Title, C	redits				
	Section No Instructor	Crs Reg.	Days (M,T,) Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total
ONL	CWE-281-05	335854	1			
	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	CWE-281-06	335855	5			
	J. STAPLETO	N	\$0.00	\$0.00	\$0.00	\$0.00
CWE- 281ES	SEMINARIO COOPERATI			E TRABA	AJO	

Est curso aumenta el potencial de los estudiantes para alcanzar el éxito profesional. Se requiere petición del estudiante.

Corequisi	tes: ECE-280ES						
ONL ESPAÑOL							
	B. MARRON	\$0.00	\$0.00	\$0.00	\$0.00		
	Requerido: petici	nte.					

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 <u>joanna.crawford@clackamas.edu</u> or 503-594-6229.

CJA-101 CRIMINOLOGY, 4 CREDITS

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

ONL LCT	CJA-101-01 3358	32			
	T. MUSGRAVE	\$504.00	\$52.00	\$0.00	\$556.00
ONL LCT	CJA-101-02 3358	33			
	J. LOVELESS	\$504.00	\$52.00	\$0.00	\$556.00

CJA-130 INTRODUCTION TO CORRECTIONS, 3 CREDITS

Examines the history, organization, and development of corrections in the United States, including sentencing, incarceration, community corrections and the juvenile justice system. Reviews the use of the death penalty. Identifies trends in corrections.

ONL LCT	CJA-130-01	335834
	J. JONES	\$378.00 \$39.00 \$0.00 \$417.00

CJA-200 COMMUNITY POLICING, 3 CREDITS

Examines interrelationships and role expectations of agencies and public policy. Explores racial and community tension, bias-based policing, community policing, police misconduct, evidence-based policing and best practices in law enforcement.

Prerequisites: CJA-110 with a C or better

HAR LCT	CJA-200-01	335835 M 1-2:20 PM		PM	
	J. JONES	\$378.00	\$39.00	\$0.00	\$417.00

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.

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, 0				
	Section No Instructor	Crs Reg.	Days (M,T,W,TH.F,S,SU) Tuition Fee	Time Crs. Fee	Total
-					

2025/SF

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

OC HYB LCT CJA-206-01	335837 TH		1-2:50	PM
C. BAKER	\$378.00	\$39.00	\$0.00	\$417.00
Meets: 4/3, 4/	/17, 5/1, 5/15, 5/29			

CJA-213 INTERVIEW & INTERROGATION, 3 CREDITS

Examines the dynamics of interviews and interrogations including common processes, approaches and techniques. Ethical, legal and psychological issues are also considered. Includes methods of how to analyze statements and behavior for deception and truthfulness.

HAR HYB	CJA-213-01	335840	М		11-12:50	PM
	T. MUSGRAV	E	\$378.00	\$39.00	\$0.00	\$417.00

CJA-215 SEXUAL ABUSE AND HUMAN TRAFFICKING, 3 CREDITS

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

HAR	CJA-215-01	335841	Т		6-8:50 PM	
	S. HEALY		\$378.00	\$39.00	\$0.00	\$417.00
	Contact: scotth	n@clack	amas.edu	I.		

CJA-216 IMPLICIT BIAS AND POLICING, 3 CREDITS

This course explores the concept of implicit bias and the potential influence of bias in law enforcement decision-making. Provides an overview of implicit bias assessments and their limitations. Students will develop skills to recognize and take action to manage bias and identify law enforcement practices that reduce bias and positively influence community relations.

ONL LCT	CJA-216-01	335842			
	G. RONNING	\$378.00	\$39.00	\$0.00	\$417.00

CJA-232 CASE MANAGEMENT, 3 CREDITS

Introduces case management techniques used by corrections and human services professionals in one-on-one and group contacts with clients. Explores a variety of case management materials, with an emphasis placed upon objective case planning and monitoring.

Prerequisite or Corequisite: HS-156 and HS-210

ONL LCT	CJA-232-01	335843			
	C. BAKER	\$378.00	\$39.00	\$0.00	\$417.00

CJA-250 REPORTING, RECORDING & TESTIFYING, 4 CREDITS

Surveys documentation skills in criminal justice professions. Verbal, nonverbal and written forms of criminal justice related workplace communication are studied and practiced, including communicating with the public, basic interviewing, documentation, courtroom testimony, and report writing.

Prerequisites: WR-121Z with a C or better

HAR HYB LCT	CJA-250-01	335844	М		9-10:50 A	м
	T. MUSGRAVI	E	\$504.00	\$52.00	\$0.00	\$556.00

CJA-270 CRIMINAL JUSTICE CAPSTONE, 3 CREDITS

This course applies and assesses the knowledge and skills gained by students who are completing the criminal justice program. Students will complete analyses of second year criminal justice courses, will review program learning outcomes, complete and present an e-portfolio, and take an exit examination.

Prerequisites: CJA-170

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

Course No	Course Title, Credits							
	Section No Instructor	Crs Reg.	Days (M,T,W Tuition	/,TH.F,S,SU) Fee	Time Crs. Fee	Total		
ONL LCT	CJA-270-01 G. RONNING	335845	\$378.00	\$39.00	\$20.00	\$437.00		

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

CJA-280-01 335846 G. RONNING \$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	CJA-281-01 335847
	G. RONNING \$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-106 CLINICAL PROCEDURES III, 2 CREDITS

This course provides an in-depth knowledge of dental specialties. Advanced and expanded dental assisting functions, tray set-ups and procedures in endodontics, periodontics, oral surgery, orthodontics and pedodontics are covered. Principles and procedures for amalgam and composite polishing will also be covered. Required: Student Petition.

Required: Acceptance into Dental Assistant program **Prerequisites:** DA-105 with a C or better

Prerequisites: DA-105 with a C

Corequisites: DA-106L

HAR

R	DA-106-01	335857 T		12-1:50	РМ
		F		12-1:50	РМ
	K. HIATT	\$252.0	0 \$26.00	\$225.00	\$503.00
	Required: Sture of a field trip.	dent Petition. No	o class on I	Friday, 4/4	because

DA-106L CLINICAL PROCEDURES III LAB, 1 CREDIT

This course covers advanced and expanded dental assisting procedures in dental specialties. Tray set-up, dental materials and specific specialty procedures will be covered in the following dental specialties: orthodontic, periodontics, oral surgery and endodontics. Laboratory instruction in study casts, amalgam, and composite polishing will be taught on dental manikins. Required: Student Petition.

Required: Acceptance into Dental Assistant program **Prerequisites:** DA-105L with a C or better **Corequisites:** DA-106

HAR	DA-106L-01 335858 F		9-11:50 A	М
	M. BUTKOVICH	\$126.00 \$13.00	\$0.00	\$139.00
	Required: Student Pe on Friday, 4/4 becau			

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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, C					
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total

2025/SI

DA-130 CLINICAL PRACTICUM III, 8 CREDITS

Supervised practice and improvement of advanced clinical skills in all areas of chairside dental assisting, laboratory procedures, specialties, radiology and Expanded Functions Dental Assisting (EFDA) procedures. Students report to their assigned site three days a week, for a minimum of twenty-four hours per week, for eleven weeks. Clinical competency skills in business office procedures will also be completed in this term. Students will be responsible to meet ten hours of community service. Students will also participate in 12 seminar hours during the term. Required: Student Petition.

Required: Acceptance into Dental Assistant program **Prerequisites:** DA-120 with a C or better

REM	DA-130-01	335860	MTW		8-4:50 PN	Λ
	M. BUTKOVIC	Н	\$1,008.0	\$104.00	\$250.00	\$1,362.00
	K. HIATT		0			
	Required: Stuc service. Meets Conference.					

DA-135 PHARMACOLOGY/MEDICAL EMERGENCIES, 2 CREDITS

This course is an introduction to pharmacology, common drugs used in dentistry, drug agencies, regulations, and drug actions. The properties of anesthetic, topical anesthetics, and desensitizing agents will also be covered. An in-depth level knowledge of the identification, response and management of medical and dental emergencies in the dental office will be taught utilizing educational manikin simulators. Required: Student Petition.

Required: Acceptance into Dental Assistant program

REM	DA-135-01	335861 TH		9-10:50	AM
	K. HIATT	\$252.00	\$26.00	\$50.00	\$328.00
	Required: Stu	dent Petition.			

DA-145 DENTAL OFFICE PROCEDURES, 2 CREDITS

This course prepares the student for basic knowledge of dental office procedures to include dental charting. Introduction of dental software, management of patient information, maintenance and retention of business records, inventory and recall systems. Written and oral communication are taught to prepare students for employment opportunities. Required: Student Petition.

Required: Acceptance into Dental Assistant program

ONL	DA-145-01	335862				
	K. HIATT	\$2	252.00	\$26.00	\$40.00	\$318.00
	Required: Stue from 1-3:00.	dent Petitio	n. Mee	ts in-pers	son on Tu	uesday, 4/1

Digital Media Communications

DMC-104 DIGITAL VIDEO EDITING, 4 CREDITS

Introduction to video editing skills that include logging and capturing raw video, assembly of shots on a timeline, and the use of effects in a final video sequence. Along with text generation, audio balancing, audio sweetening, and video compositing, this course will offer students an indepth overview of the video editing process. The course will explore the history of editing and the theory behind various film and video editing forms. Lab component included.

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

с нув LCT DMC-104-01	336522 T		1-3:50 PM	
	TH		1-3:50 PM	
M. DEVENDO	RF \$504.00	\$52.00	\$106.00	\$662.00

DMC-107 ANIMATION & MOTION GRAPHICS II, 4 CREDITS

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

00

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

This project-based course will explore intermediate aspects of experimental and new technological approaches to creating digital effects and animation for video and web-based applications. Students will learn intermediate features of Adobe After Effects to create successful motion graphics projects.

Prerequisites: DMC-106

Recommended Prerequisites: DMC-104, DMC-221, and DMC-225. Previous experience with computer graphics and digital video

OC LCT	DMC-107-01	336526 MW 1-3:50 P			
	T. WASSON	\$504.00	\$52.00	\$106.00	\$662.00

DMC-108 ANIMATION & MOTION GRAPHICS III, 4 CREDITS

Continuation of the process of animation and motion graphics design. This project-based course explores advanced aspects of experimental and new technological approaches to creating digital effects and animation for video and web-based applications. The course presents advanced aspects of industry standard 3D and compositing software to create successful VFX, 3D Animation, and Motion Graphics projects. **Prereguisites:** DMC-107

	•					
oc		DMC-108-01	336529 MW		1-3:50 PN	
		T. WASSON	\$504.00	\$52.00	\$106.00	\$662.00

DMC-222 ADVANCED 2D ANIMATION: DESIGN & TECHNIQUES, 4 CREDITS

Covers advanced principles of 2D animation using the latest industry standard software. The course will emphasize professional workflow and techniques of animation production for multimedia platforms. This includes visual development and pre-production, advanced character design and physics, advanced environment design, FX animation and post-production, portfolio presentation, and industry expectations. **Prerequisites:** DMC-221 or Student Petition

OC LCT	DMC-222-01	336530 TTH		9-11:50 A	AM
	T. WASSON	\$504.00	\$52.00	\$106.00	\$662.00

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

ONL LCT	DMC-225-01	337009			
	B. THWING	\$504.00	\$52.00	\$106.00	\$662.00

DMC-226 COMPUTER GRAPHICS II, 4 CREDITS

Continue exploring the processes of digital graphics programs. More advanced aspects of image compositing, bit mapping, layering, and using channels in Photoshop. More advanced aspects of vector graphics creation and document creation in Illustrator and InDesign. Creative problem solving, design applications and contemporary issues will be explored. Historical reference and current trends in digital media will continue to be examined.

Prerequisites: DMC-225

OC LCT	DMC-226-01	337008 TTH	1-3:50 PM	
	T. WASSON	\$504.00	\$52.00 \$106.00 \$662.00	

DMC-227 COMPUTER GRAPHICS III, 4 CREDITS

Advanced use of multi-digital formats to create images, compositions and documents. Develop a design portfolio. Design principles, creative problem solving, historical and contemporary issues in graphics and aesthetics will be analyzed.

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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	o Course Title, Credits							
	Section No Instructor	Crs Reg.	Days (M,T,) Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total		
Prerequis	tes: DMC-226							
OC LCT	DMC-227-01	337006	ттн		1-3:50 PM			
	T. WASSON		\$504.00	\$52.00	\$106.00	\$662.00		

2025/SP

DMC-242 FIELD RECORDING FOR MEDIA, 1 CREDIT

This course offers students interested in recording and sweetening audio for film an opportunity to work with student film crews during the shooting and editing process.

OC LCT	DMC-242-01	335829 F S		6:30 -8:2 9-5:50 PI	
	B. ROSE Meets: 4/18 &	\$126.00 4/19.	\$13.00	\$90.00	\$229.00

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	335830 W		3-5:50 PM		
	B. ROSE	\$378.00	\$39.00	\$90.00	\$507.00	

DMC-265 ADVANCED DIGITAL FILMMAKING, 4 CREDITS

This course emphasizes advanced filmmaking skills. Students will produce short films from written scripts.

Prerequisites: DMC-104 or Student Petition

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

OC LCT	DMC-265-01	336531	MW		1-3:50 PM	l
	M. DEVENDO	RF	\$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-280-01	336534			
	T. WASSON	\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Stu	dent Petition.			

DMC-292 DIGITAL MEDIA COMMUNICATIONS PORTFOLIO PROJECT II, 4 CREDITS

This course is a group-focused portfolio project class for Digital Media Communications (DMC) students. The purpose of this course is to provide students the opportunity to combine their skills, knowledge, and special interests in development of a collaboratively planned and produced original work representative of more than one of the focus areas in the DMC program. The process of portfolio production at this level includes working with peers in designing, planning, refining and completing a group project. Students will also further develop their professional online portfolio (website) to represent their skills in their DMC focus area in preparation for internships and employment.

Prerequisites: DMC-291

OC LCT	DMC-292-01	336535	MW		9-11:50 A	M
	M. DEVENDO	RF	\$504.00	\$52.00	\$106.00	\$662.00

Economics

EC-201 PRINCIPLES OF ECONOMICS: MICRO, 4 CREDITS

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

Course	Listing											2	025/SP
Course No Course Title, Credits					Course No	Course Title, Credits							
	Section No Instructor	Crs Reg.	Days (M,T, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T Tuition	,W,TH.F,S,SU) Fee	Time Crs. Fee	Total
Focuses on microeconomic theory dealing with the behavior of individuals and profit-maximizing firms in market structures with varying			ECE-179	THE PROFE									
trade, cons	f competition. C sumer behavior nt in affecting m	, the theo	ory of the				Education (e focuses on th (ECE). Studen	ts will exp	lore the l	National A	ssociation	for the

Prerequisites: MTH-020 or placement in MTH-098

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

OC LCT	EC-201-01	336407 TTH		D AM				
	D. LOUGEE	\$504.00	\$52.00	\$0.00	\$556.00			
	Online textbook provided first day of class.							
ONL LCT	EC-201-02	336409						
		RWALA \$504.00 ok provided first da		+	\$556.00			

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	336411 TTH		3-4:50 PM	
	D. LOUGEE	\$504.00	\$52.00	\$0.00	\$556.00
	Online textbo	ok provided first da	ay of clas	s.	
ONL LCT	EC-202-02	336414			
	M. PARTAPU	RWALA \$504.00	\$52.00	\$0.00	\$556.00
	Online textbo	ok provided first da	ay of clas	s.	
HAR LCT	EC-202-15	339955 W		6-9:50 PM	
	D. LOUGEE	\$504.00	\$52.00	\$0.00	\$556.00
	Online textbo	ok provided first da	ay of clas	S.	

Education

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

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

Prerequisites: HDF-247ES

REM ESPAÑOL	ECE-114ES-01336415	W		6-7:50	PM
LUPANOL	D. TORRADO La clase se reúne seis 5/14, 5/28, 6/11) de 6:0		s por Zoo		\$417.00 4/16, 4/30,

ECE-**OBSERVACIÓN Y ORIENTACIÓN I EN EDUCACIÓN** 121ES **TEMPRANA, 4 CREDITS**

El curso está diseñado para ayudar a los estudiantes a explorar en profundidad las técnicas de observación y registro del desarrollo y aprendizaje de los niños. Se examinan varias técnicas de orientación infantil para niños desde el nacimiento hasta el 3er grado. Los estudiantes recibirán estrategias para ayudarles a proporcionar orientaciónes positivas a los niños en función de diferentes de escenarios y situaciones.

REM ESPAÑOL	ECE-121ES-01 338026	9-10:50 AM		
	L. JAMES La clase se reúne seis 5/17, 5/31, 6/7) de 6:0		por Zoor	

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

	ate their commitment to ites: ECE-150, ECE-22	•		280, ED-2	246, and
ONL LCT	ECE-179-01 33642 D. HENDRICKS	2 \$504.00	\$52.00	\$0.00	\$556.00
ECE-239 TRAUMA-INFORMED PRACTICES IN EARLY CARE AND EDUCATION, 3 CREDITS					
developme impacted l emphasize home and	knowledge and skills the ent of young children, bi by trauma. Explores typ es trauma-informed prace school setting collaborative	irth to age a es and syn ctices that o s available	8, who h nptoms c can be a resourc	ave been of trauma, pplied in t es and re	and the child's

Education of Young Children's Code of Ethical Conduct, the professional

standards and competencies expected for ECE professionals. Students

will discuss advocacy strategies and how to engage in intentional, reflective practice. Students will also create a professional portfolio to

strategies for working collaboratively with families and other professionals.

Prerequisites: ECE-150 and HDF-225

ONL LCT	ECE-239-01 33	6424			
	D. GLASCOCK	\$378.00	\$39.00	\$0.00	\$417.00
	Meets: 4/1-5/5.				

ENVIRONMENTS AND CURRICULUM PLANNING, 4 ECE-240 CREDITS

Focuses on an introduction of creating learning environments and curriculum for children from three years old through five years old in home or center-based programs. Course covers theories and relationships between physical and social space, activities, experiences, and materials. Students are introduced to the use of developmentally and culturally appropriate practices in planning and selecting environments and curriculum for young children.

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

REM	ECE-240-01	336426 W		5:30 -7:	30 PM			
	B. KING	\$504.00	\$52.00	\$0.00	\$556.00			
	This class meets on six Wednesdays via Zoom (4/2, 4/16, 4/30, 5/14, 5/28, 6/1) from 5:30PM-7:30PM.							

AMBIENTES Y PLANIFICACIÓN CURRICULAR, 4 ECE-240ES CREDITS

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

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

REM LCT ESPAÑOL	ECE-240ES-01 336429	т		6-7:50 PM	
	Y. SANCHEZ La clase se reúne seis 5/13, 5/27, 6/10) de 6:0		or Zoom		\$556.00 \$/29,
ECE- 254ES	ESTRATEGIAS DE IN DE DOS IDIOMAS, 4 (STRUCC	IÓN PAF	RA ESTUDI	ANTES

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

Course	Listing												2025/SP
Course No	Course Title, C	redits					Course No	Course Title, C	redits				
	Section No Instructor	Crs Reg.	Days (M,T, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T,) Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total

Este curso examina enfoques pedagogicos y culturales que conducen a un desarrollo exitoso del dominio del idioma ingles, idioma usado en la casa, y reconocimiento del contenido por los niños cuyo idioma en el hogar no es el inglés. Se enfoca en el niño desde su nacimiento hasta la escuela primaria.

Prerequisites: ECE-154ES and ECE-240ES

REM ECE-254ES-01336434 S 9-10:50 AM

M. GARCIA AVILEZ \$504.00 \$52.00 \$0.00 \$556.00 La clase se reúne seis sábados por Zoom (4/5, 4/19, 5/3, 5/17, 5/31, 6/7) de 9:00AM a 10:50AM.

ECE- EQUIDAD Y DIVERSIDAD EN LA EDUCACIÓN INFANTIL, 258ES 4 CREDITS

Este curso se enfoca en promover y honrar la diversidad y la equidad en la educación infantil. El enfoque será en colaborar con familias diversas, establecer ámbitos culturales y lingüísticos que sean diversificados y promuevan una autoidentificación positiva en los niños pequeños. **Prerequisites:** ECE-150ES, ECE-235ES, and FYE-101ES

REM LCT ESPAÑOL	ECE-258ES-01 336437	W		6-7:50	PM
	B. MARRON La clase se reúne seis 5/14, 5/28, 6/11) de 6:0		por Zoo	•	\$556.00 4/16, 4/30,
REM ESPAÑOL	ECE-258ES-02336438	тн		6-7:50	PM
	B. MARRON La clase se reúne seis 5/29, 6/12) de 6:00PM		r Zoom		\$556.00 7, 5/1, 5/15,

ECE-280 EARLY CHILDHOOD EDUCATION/CWE, 3 CREDITS

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

Corequisites: CWE-281

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

oc	ECE-280-01 336442		
	D. GLASCOCK \$	378.00 \$39.00 \$45.00	\$462.00
	Required: Student Petitio denise.glascock@clacka Corequisite: Take the fol	amas.edu or 503-594-3488.	

ECE- EXPERIENCIA LABORAL COOPERATIVA, 4 CREDITS 280ES

En este curso, los estudiantes completan 144 horas de trabajo en un entorno de primera infancia, asistiendo a niños y familias desde el nacimiento hasta los 8 años de edad. Si no completan las horas requeridas, recibirá un curso incompleto o reprobará. **Corequisites:** CWE-281ES

ONL ESPAÑOL ECE-280ES-01 336443 B. MARRON \$504.00 \$52.00 \$45.00 \$601.00 Requerido: petición del estudiante. \$601.00 \$601.00 \$601.00

ECE-292 PRACTICUM III, 4 CREDITS

Focuses on field experiences for early childhood education students in a variety of educational settings, serving children from birth through kindergarten. This course allows students to deepen and apply their knowledge, methods, and skills gained from early childhood education and family studies courses as well as the previous terms of practicum and CWE. The course covers continuing observation/assessment, assisting the supervising teacher in implementing an integrated approach to curriculum with attention paid to working with diverse children and their families. Students will complete their professional portfolio in this course, documenting how they have achieved the program learning outcomes. Required: Student Petition. **Prerequisites:** ECE-154, ECE-221, ECE-240, ED-254, and ECE-291

OC HYB LCT ECE-292-01 336445 TH 3-4:50 PM B. KING \$504.00 \$52.00 \$0.00 \$556.00 Required: Student Petition. Meets 4/3, 4/17, 5/1, 5/15, and 5/29.

ECE- PRACTICUM III, 4 CREDITS 292ES

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

ESPAÑOL	
A. ECHEVARRIA \$504.00 \$52.00 \$0.00 \$55 Requerido: petición del estudiante. La clase se reúne cine viernes por Zoom (4/4, 4/18, 5/2, 5/16, 5/30) de 6:00PM a 8:50PM.	

ED-101 INTRO TO EDUCATION PRACTICUM & SEMINAR, 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.

ос	ED-101-01	336452 T	10-11:50 AM			
	L. SCOTT	\$504.00	\$52.00	\$0.00	\$556.00	
	Required: Stud	dent Petition.				

ED-150 CREATIVE ACTIVITIES FOR CHILDREN, 3 CREDITS

The class focuses on understanding and implementing a developmental approach to creative activities for young children; involves hands-on experience with a variety of mediums including art, music and movement, and creative dramatics.

OC HYB	ED-150-01	340015 W	1-2:50 P	PM
	L. SCOTT	\$378.00	\$39.00 \$0.00	\$417.00
	This class m 6/4.	eets every other we	ek: 4/9, 4/23, 5/7,	5/21, and

ED-216 FOUNDATIONS OF TEACHING & EDUCATION, 4 CREDITS

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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

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

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

ONL ED-216-01 336453 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

Provides an introduction to the field of Career and Technical Education (CTE) in Oregon. Examines the historical and legislative foundations of CTE in the United States. Discusses the role of special populations in CTE programs. Provides an overview of high quality CTE programs, CTE licensure preparation, and student organizations. Addresses current trends and issues in the field.

ONL LCT	ED-220-01	336454	Ļ			
	M. HELZERM	AN	\$378.00	\$39.00	\$0.00	\$417.00

ED-258 CULTURALLY RESPONSIVE TEACHING & EDUCATION, 3 CREDITS

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

ONL	ED-258-01	336459		
	L. SCOTT	\$378.00	\$39.00 \$39.00	\$456.00
	Two books. (One is an online tex	tbook included in s	ection
	fees, the sec	ond is available at t	the Bookstore.	
OC HYB	ED-258-02	336460 T	1-2:50 P	М
	L. SCOTT	\$378.00	\$39.00 \$39.00	\$456.00
	Two books. (One is an online tex	tbook included in s	ection
	fees, the sec	ond is available at t	the Bookstore. This	class
	meets: 4/1, 4	/15, 4/29, 5/13, 5/2	7, and 6/10.	

Educational Focus Area

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	336002 W		3-4:50	PM
	Y. SMITH	\$252.00	\$26.00	\$0.00	\$278.00
	No textbook re	equired.			

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-114 ELECTRONIC EQUIPMENT AND ASSEMBLY III, 1 CREDIT

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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, Cr	redits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total

2025/S

This is the third course in a three course sequence with a focus on soldering skills. Through-hole and SMT techniques will be introduced. **Prerequisites:** EET-113

oc	EET-114-01	336537	MW		4:30 -5:20	PM
	W. SELLEVAA	G	\$126.00	\$13.00	\$43.75	\$182.75

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 $\,$

ос	EET-139-01	340227 MW		1-4:00 PM	
	S. PAVEY	\$252.00	\$26.00	\$87.00	\$365.00

EET-142 ELECTRICAL FUNDAMENTALS III, 4 CREDITS

Covers sinusoidal functions and phasors and complex impedance. Analyze systems to determine AC circuit parameters and complex power. Circuits contain voltage and current sources, resistors, inductors, and transformers.

Prerequisites: EET-141

C

Recommended Prerequisite or Corequisite: MTH-112Z

ос	EET-142-01	336539	MW		12-3:50 PI	М
	W. SELLEVAA	G	\$504.00	\$52.00	\$174.00	\$730.00

EET-234 PROGRAMMABLE LOGIC CONTROLLERS II, 3 CREDITS

An advanced course of study that will develop the student's understanding of Programmable Logic Controllers (PLC) in more detailed Industrial applications through lectures, labs and hands-on examples. This course will emphasize advanced PLC functions and data sets, networking schemes and human machine interfaces.

Prerequisites: EET-233

oc	EET-234-01	336543 TH	6-8:50 PM		
	B. GARDNER	\$378.00	\$39.00	\$131.25	\$548.25

EET-235 MECHATRONICS II, 2 CREDITS

This course expands on advanced electromechanical principles with applications in manufacturing and industrial systems. Students will study the applications of Proportional Integral Differential (PID) controllers for motion and process control and the electromechanical components that are integral to industrial machinery.

Prerequisites: EET-225

ос	EET-235-01	336544	MW		1-2:50 PM	I-2:50 PM		
	M. MATTSON		\$252.00	\$26.00	\$87.50	\$365.50		

EET-250 LINEAR CIRCUITS, 3 CREDITS

Introduction to the operation and functions of operational amplifiers and linear devices. Design and circuit analysis of op-amps, comparators, converters and special purpose linear devices. Industry standard devices will be used.

Prerequisites: EET-227

ос	EET-250-01	336546	MW		5:30 -8:20	PM
	W. SELLEVAA	G	\$378.00	\$39.00	\$130.50	\$547.50

EET-254 INTRODUCTION TO MICROCONTROLLERS, 3 CREDITS

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

Course	Listing												2025/SP
Course No	Course Title, C	redits					Course No	Course Title, C	redits				
	Section No Instructor	Crs Reg.	Days (M,T, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total

Introduction to processor architecture and microcontrollers. Internal structure, registers, busses, control unit. Clock, machine and instruction cycling timing, interrupts and DMA. Instruction set, mnemonics, functions, and assembly language programming. Interfacing to external memory and I/O on-chip peripherals.

Prerequisites: EET-157

oc	EET-254-01	336547 MW	5:30 -8:20 PM		
	J. LEE	\$378.00	\$39.00	\$130.50	\$547.50

SM-170 SEMICONDUCTOR PROCESSING III, 2 CREDITS

Covers the essential process and equipment issues related to the etching, diffusion and ion implantation. Troubleshooting of common equipment and process related problems are emphasized. **Recommended Prerequisites:** SM-150

ONL SM-170-01 336788

W. SELLEVAAG	\$252.00	\$26.00	\$87.00	\$365.00

SM-229 VACUUM TECHNOLOGY, 2 CREDITS

Focuses on elementary theory and practice of vacuum equipment for microelectronics processing. Students study vacuum fundamentals, pumps, and equipment used in vacuum systems.

Recommended Prerequisites: SM-150

ONL	SM-229-01	336789				
	W. SELLEVA	AG \$	\$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 336790 C. CONNORS \$756.00 \$78.00 \$255.00 \$1,089.00V Required: Student Petition. Restricted: Microelectronics or electronics students. Corequisite: Take the following CWE-281-06.

Emergency Medical Technology

EMT-101 EMERGENCY MEDICAL TECHNICIAN PART I, 6 CREDITS

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

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	EMT-101-01	340017	340017 MWF		6-9:20 PM		
	T. SAWZAK		\$756.00	\$78.00	\$400.00	\$1,234.00	
	Required: Stud	dent Peti					

EMT-102 EMERGENCY MEDICAL TECHNICIAN PART II, 6 CREDITS

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

Required: Completion and documentation of all OHA Health Profession Student Clinical Training Administrative Requirements **Prerequisites:** EMT-101 with a C or better

HAR	EMT-102-01	335863 MWF		1-4:20 P	М
	T. SAWZAK	\$756.00	\$78.00	\$400.00	\$1,234.00
	Required: Stu	Ident Petition.			

EMT-105 INTRODUCTION TO EMERGENCY MEDICAL SERVICES, 3 CREDITS

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

ONL	EMT-105-01	335864
	T. SAWZAK	\$378.00 \$39.00 \$0.00 \$417.00
ONL	EMT-105-02	340018
	T. SAWZAK	\$378.00 \$39.00 \$0.00 \$417.00

EMT-109 EMERGENCY RESPONSE COMMUNICATION/DOCUMENTATION, 2 CREDITS

Covers principles of communication via verbal, written and electronic modes in the provision of EMS. Documentation of the elements of patient assessment, patient care and transport, communication systems, radio types, reports, codes and correct techniques. **Prerequisites:** EMT-101

ONL EMT-109-01 33

DNL	EMT-109-01	335865			
	S. COOPER	\$252.00	\$26.00	\$0.00	\$278.00

Engineering

ENGR-111 INTRODUCTION TO ENGINEERING, 3 CREDITS

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

Prerequisite or Corequisite: MTH-111Z or higher

OC LCT	ENGR-111-01	336549 MW		4-5:20 PM	
	ТВА	\$378.00	\$39.00	\$10.00	\$427.00

ENGR-112 ENGINEERING PROGRAMMING, 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

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

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

Prerequisite or Corequisite: MTH-112Z or higher

ос	ENGR-112-01	336553 MW		1-2:20 F	РМ
	E. LEE	\$378.00	\$39.00	\$0.00	\$417.00

ENGR-115 ENGINEERING GRAPHICS, 3 CREDITS

This course will emphasize the practical application of engineering graphics techniques for the design, maintenance, and modification of mechanical parts and assemblies. Students will both generate new models based on design intent and translate existing physical objects into graphical 3D models, documenting their work with 2D engineering drawings according to ASME standards. Includes isometric views, dimensioning, and simulation.

Prerequisites: MTH-060 or higher

ос	ENGR-115-01 3365	55 TTH		8:30 -9:5	50 AM
	C. CONNORS	\$378.00	\$39.00	\$35.00	\$452.00

ENGR-201 ELECTRICAL FUNDAMENTALS, 4 CREDITS

A study of basic electrical circuit theory. Analysis of voltage and current relationships. Covers circuit parameters of resistance, inductance, and capacitance. Includes basic DC, AC, and natural response of circuits. This course is not intended for Electrical or Computer Engineering majors.

Corequisites: ENGR-201L

Prerequisites: MTH-252

oc ENGR-201-01 33		336556 MW	36556 MW		9-10:20 AM	
	E. LEE	\$504.00	\$52.00	\$0.00	\$556.00	

ENGR- ELECTRICAL FUNDAMENTALS LAB, 0 CREDIT 201L

Lab course for ENGR-201

Corequisites: ENGR-201

oc	ENGR-201L-			10:30 -	11:50 AM
	01 E. LEE	\$0.00	\$0.00	\$0.00	\$0.00

ENGR-213 STRENGTH OF MATERIALS, 4 CREDITS

Introduces the relation of externally applied loads and their internal effects on deformable bodies, such as columns, shafts, beams and statically indeterminate structures or systems made up of such members. **Prerequisites:** ENGB-211

ос	ENGR-213-01	336560 MW		3-4:50 P	М
	E. LEE	\$504.00	\$52.00	\$20.00	\$576.00

ENGR-223 ELECTRICAL CIRCUIT ANALYSIS III, 4 CREDITS

Final course in the electrical circuits sequence. The main emphases of the course are frequency response of circuits, the design and analysis of filters, Laplace transform analysis, and the Fourier series. The laboratory portion of the course will consist of one project involving significant design and analysis.

Prerequisites: ENGR-222

Corequisites: ENGR-223L

Recommended Prerequisite or Corequisite: MTH-256

oc	ENGR-223-01	336561 TTH		9-10:20	AM
	E. LEE	\$504.00	\$52.00	\$52.00	\$608.00

Course No	Course Title, C	Course Title, Credits					
	Section No Instructor	Crs Reg.	Days (M,T,) Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total	
ENGR- ELECTRICAL CIRCUIT ANALYSIS III LAB, 0 CREDIT 223L							
Lab course	for ENGR-223						
Corequisites: ENGR-223							
Recommended Prerequisite or Corequisite: MTH-256							

2025/SF

ос	ENGR-223L- 01	336564 TTH		10:30 -	11:50 AM
	E. LEE	\$0.00	\$0.00	\$0.00	\$0.00

ENGR-271 DIGITAL SYSTEMS, 4 CREDITS

The second course in digital design. Explores synchronous state machine and memory system design and analysis. Timing analysis and design for test techniques are introduced. Uses computer-based tools for logic system development and simulation. Reinforces systemic design methodology.

Prerequisites: ENGR-171

 Recommended Prerequisites: ENGR-112

 oc
 ENGR-271-01
 336566 TTH
 12:30 - 3:20 PM

00	LNGN-271-01 330300			12.00	-3.20 F W
	W. SELLEVAAG	\$504.00	\$52.00	\$0.00	\$556.00

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 335978	B MW		9-11:50 AM	l
	D. VERMILLION	\$0.00	\$0.00	\$60.00	\$60.00
	Required: Student Pet	tition.			
OC LCT	ESOL-012-02 339969	9 MW		9-11:50 AM	
	T. NIKOLOPOULOS	\$0.00	\$0.00	\$60.00	\$60.00
	Required: Student Pet	tition.			
HAR LCT	ESOL-012-06 33598	1 MW		6-8:50 PM	
	K. STECKMEST	\$0.00	\$0.00	\$60.00	\$60.00
	Required: Student Pet	tition.			
HAR LCT	ESOL-012-07 33598	5 MW		6-8:50 PM	
	K. HOLLOWAY	\$0.00	\$0.00	\$60.00	\$60.00
	Required: Student Pet	tition.			

ESOL-013 BEGINNING ESOL, 0 CREDIT

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

REM LCT	ESOL-013-06 3402	19 MW	9 MW 7:30 -8:50		0 PM
	J. STENSETH	\$0.00	\$0.00	\$30.00	\$30.00
	Required: Student P	etition.			

ESOL-015 BEGINNING READING, WRITING, AND GRAMMAR, 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

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

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 33598	8 TTH		9-11:50 AN	1
	J. RUEDA	\$0.00	\$0.00	\$65.00	\$65.00
	Required: Student Pe	etition.			
HAR LCT	ESOL-015-06 33599	0 TTH		6-8:50 PM	
	O. TREHUBOVA	\$0.00	\$0.00	\$65.00	\$65.00
	Required: Student Pe	tition.			
HAR LCT	ESOL-015-07 33996	4 TTH		6-8:50 PM	
	L. ROWE	\$0.00	\$0.00	\$65.00	\$65.00
	Required: Student Pe	tition.			

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 335992 TTH		12:30 -1:	50 PM
00 201	J. RUEDA \$0.00 Required: Student Petition.	\$0.00	\$35.00	\$35.00
HAR LCT	ESOL-020-06 335996 MW O. TREHUBOVA \$0.00 Required: Student Petition.	\$0.00	7:30 -8:5 \$35.00	0 PM \$35.00
REM LCT	ESOL-020-07 339973 MW A. FRANZONI \$0.00 Required: Student Petition.	\$0.00	7:30 -8:5 \$35.00	0 PM \$35.00

ESOL-024 UPPER BEGINNING READING & WRITING, 0 CREDIT

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

OC LCT	ESOL-024-01 3359	99 TTH		9-11:50 AN	1
	T. NIKOLOPOULOS	\$0.00	\$0.00	\$60.00	\$60.00
	Required: Student P	etition.			
HAR LCT	ESOL-024-06 3360	04 TTH		6-8:50 PM	
	K. HOLLOWAY	\$0.00	\$0.00	\$60.00	\$60.00
	Required: Student P	etition.			

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	336007 TTH		12:30 -1:	50 PM
	S. MUNRO	\$0.00	\$0.00	\$30.00	\$30.00
	Required: Stud	ent Petition.			
REM LCT	ESOL-030-06	336011 MW		7:30 -8:50) PM
	P. MROZEK	\$0.00	\$0.00	\$30.00	\$30.00
	Required: Stud	ent Petition.			

ESOL-031 INTERMEDIATE GRAMMAR B, 0 CREDIT

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

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, Cr	edits				
	Section No	Crs Reg.	Days (M,T,V	V,TH.F,S,SU)	Time	
	Instructor		Tuition	Fee	Crs. Fee	Total
HAR LCT		000075			7 00 0 50 5	
HARLUI	ESOL-031-06	339975	INIW		7:30 -8:50 P	'IVI
HAR LUI	K. EMENS-HES			\$0.00	\$30.00	\$30.00

2025/SF

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 3360)15 MW		10:30 -11:5	0 AM
	A. FRANZONI	\$0.00	\$0.00	\$30.00	\$30.00
	Required: Student F	Petition.			
HAR LCT	ESOL-032-06 3360	20 MW		6-7:20 PM	
	K. EMENS-HESSLI	NK \$0.00	\$0.00	\$30.00	\$30.00
	Required: Student F	Petition.			
REM LCT	ESOL-032-07 3402	20 MW		6-7:20 PM	
	A. FRANZONI	\$0.00	\$0.00	\$30.00	\$30.00
	Required: Student F	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 D. VERMILLIO Required: Stud	N \$	0.00	\$0.00	9-11:50 AM \$60.00	\$60.00
HAR LCT	ESOL-034-06 L. NARDONE Required: Stuc	\$	0.00	\$0.00	6-8:50 PM \$60.00	\$60.00

ESOL-042 UPPER INTERMEDIATE CONVERSATION 1, 0 CREDIT

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

OC LCT	ESOL-042-01	336033 MW		10:30 -11:5	50 AM
	S. MUNRO	\$0.00	\$0.00	\$30.00	\$30.00
	Required: Stu	dent Petition.			
HAR LCT	ESOL-042-06	336036 MW		6-7:20 PM	
	S. CAISSE	\$0.00	\$0.00	\$30.00	\$30.00
	Required: Stu	dent Petition.			
REM LCT	ESOL-042-07	339972 MW		6-7:20 PM	
	P. MROZEK	\$0.00	\$0.00	\$30.00	\$30.00
	Required: Stu	dent 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 L. JOYCE Required: Stu	\$0.00	\$0.00	9-11:50 AN \$70.00	1 \$70.00
HAR LCT	ESOL-044-06 J. STENSETH Required: Stu	\$0.00	\$0.00	6-8:50 PM \$70.00	\$70.00

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

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

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 K. LONG Required: Stu	\$0.00	\$0.00	9-11:50 AN \$60.00	\$60.00
HAR LCT	ESOL-046-06 S. CAISSE Required: Stur	\$0.00	\$0.00	6-8:50 PM \$60.00	\$60.00

ESOL-051 ADVANCED GRAMMAR B, 0 CREDIT

One of a three-part series. English language learners study and practice count/non-count nouns, definite/indefinite articles, and noun clauses in written and spoken English. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 3 and 4. Required: Student Petition.

OC LCT	ESOL-051-01	339965 TTH		12:30 -1:	50 PM
	K. LONG	\$0.00	\$0.00	\$30.00	\$30.00
	Required: Stu	dent Petition.			
HAR LCT	ESOL-051-06	339974 MW		7:30 -8:50	D PM
	S. CAISSE	\$0.00	\$0.00	\$30.00	\$30.00
	Required: Stu	dent 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 33	6053 MW		10:30 -11	:50 AM
	J. RUEDA	\$0.00	\$0.00	\$30.00	\$30.00
	Required: Studen	t Petition.			
HAR LCT	ESOL-052-06 33	6056 MW		6-7:20 PN	1
	I. FERGUSON	\$0.00	\$0.00	\$30.00	\$30.00
	Required: Studen	t 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 3	36058 TTH		9-11:50 AM	
	S. MUNRO	\$0.00	\$0.00	\$70.00	\$70.00
	Required: Stude	nt Petition.			
HAR LCT	ESOL-054-06 3	36062 TTH		6-8:50 PM	
	I. FERGUSON	\$0.00	\$0.00	\$70.00	\$70.00
	Required: Stude	nt 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.

Course No	Course Title, Cr	redits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	/,TH.F,S,SU) Fee	Time Crs. Fee	Total
OC LCT	ESOL-062-01	339967	MW		12:30 -1:50	PM
	K. LONG		\$0.00	\$0.00	\$30.00	\$30.00
	Required: Stud	lent Peti	tion			

ESOL-069 PRONUNCIATION: PATTERNS OF AMERICAN ENGLISH, 0 CREDIT

English language learners develop pronunciation skills and knowledge to improve speech clarity, listening effectiveness, and pronunciation of written words. This course focuses on the speech patterns of American English. Required: Student Petition.

OC LCT	ESOL-069-01	336067 MW		9-10:20 A	AM
	S. MUNRO	\$0.00	\$0.00	\$30.00	\$30.00
	Required: Stu	dent Petition.			

ESOL-082 ASSESS/EVALUATE NEW STUDENTS, 0 CREDIT

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

ONL	ESOL-082-01 L. JOYCE Required: Stu	\$0.00	\$0.00	\$0.00	\$0.00
ONL	ESOL-082-06 L. JOYCE Required: Stu	\$0.00	\$0.00	\$0.00	\$0.00

ESOL-083 EDUCATIONAL PLANNING FOR RETURNING STUDENTS, 0 CREDIT

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

ONL	ESOL-083-01 336073			
	L. JOYCE \$0	.00 \$0.00	\$0.00	\$0.00
	Required: Student Petitior	ı.		
ONL	ESOL-083-06 336076			
	L. JOYCE \$0	.00 \$0.00	\$0.00	\$0.00
	Required: Student Petitior	۱.		

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.

ос	PIE-020-01	336077 TTH		12:30 -1:	:50 PM
	J. RUEDA	\$378.00	\$39.00	\$240.00	\$657.00
	Required: Stud	dent 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.

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

Course No	Course Title, Cr	redits					Co
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	/,TH.F,S,SU) Fee	Time Crs. Fee	Total	
oc	PIE-024-01	336080	TTH		9-11:50	AM	OC
	T. NIKOLOPO	ULOS	\$756.00	\$78.00	\$480.00	\$1,314.00	
	Required: Stu	dent Peti	tion.				

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.

ос	PIE-030-01	336083 TTH		12:30 -1:	50 PM
	S. MUNRO	\$378.00	\$39.00	\$240.00	\$657.00
	Required: Stu	udent 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	336085	MW		10:30 -11:	:50 AM
	A. FRANZONI		\$378.00	\$39.00	\$240.00	\$657.00
	Required: Stud	lent Peti	tion.			

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	336087	ттн		9-11:50	АМ
	D. VERMILLIC	N	\$756.00	\$78.00	\$480.00	\$1,314.00
	Required: Stud	dent Pet	ition.			

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.

ос	PIE-042-01	336089 MW		10:30 -11	:50 AM
	S. MUNRO	\$378.00	\$39.00	\$240.00	\$657.00
	Required: Str	udent Petition.			

PIE-044 UPPER INTERMEDIATE READING & WRITING, 0 CREDIT

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

oc	PIE-044-01	336091 TTH		9-11:50	AM
	L. JOYCE	\$756.00	\$78.00	\$480.00	\$1,314.00
	Required: Stu	udent Petition.			

PIE-046 EDITING FOR BETTER WRITING, 0 CREDIT

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

Course No	Course Title, Cr	edits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
oc	PIE-046-01	336093	TTH		9-11:50	AM
oc	PIE-046-01 K. LONG			\$78.00		AM \$1,314.00

2025/SF

PIE-051 ADVANCED GRAMMAR B, 0 CREDIT

One of a three-part series. English language learners study and practice count/non-count nouns, definite/indefinite articles, and noun clauses in written and spoken English. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 3 and 4. Required: Student Petition.

ос	PIE-051-01	339966 TTH		12:30 -1	50 PM
	K. LONG	\$378.00	\$39.00	\$240.00	\$657.00
	Required: St	udent Petition.			

PIE-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.

ос	PIE-052-01	336096 MW		10:30 -11	I:50 AM
	J. RUEDA	\$378.00	\$39.00	\$240.00	\$657.00
	Required: Stu	Ident Petition.			

PIE-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.

ос	PIE-054-01	336098 TTH		9-11:50	AM
	S. MUNRO	\$756.00	\$78.00	\$480.00	\$1,314.00
	Required: Stud	dent 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.

ос	PIE-062-01	339968 MW		12:30 -1	:50 PM
	K. LONG	\$378.00	\$39.00	\$240.00	\$657.00
	Required: Stu	udent Petition.			

PIE-069 PRONUNCIATION: PATTERNS OF AMERICAN ENGLISH, 0 CREDIT

English language learners develop pronunciation skills and knowledge to improve speech clarity, listening effectiveness, and pronunciation of written words. This course focuses on the speech patterns of American English. Required: Student Petition.

ос	PIE-069-01	336103 MW		9-10:20	AM
	S. MUNRO	\$378.00	\$39.00	\$240.00	\$657.00
	Required: Stu	udent Petition.			

English Literature

ENG-106Z INTRODUCTION TO POETRY, 4 CREDITS

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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

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

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

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

OC LCT	ENG-106Z-01	336473 MW		10-11:	:50 AM
	J. DAVIS	\$504.00	\$52.00	\$0.00	\$556.00

ENG-109 WORLD LITERATURE: THE 19TH THROUGH 21ST CENTURIES, 4 CREDITS

Literature of the 19th through 21st centuries, in a variety of genres. Through class discussion, research, and written work, students practice close reading and literary interpretation, explore the readings' contemporary relevance, relate the readings to their own lives and the world, and engage in academic conversations about the literature. **Recommended Prerequisites:** WRD-098 or placement in WR-121Z

	•		•		
ONL	ENG-109-01	338044			
	A. WARREN	\$504.00	\$52.00 \$	0.00	\$556.00

ENG-195 AMERICAN FILM, 4 CREDITS

This course will focus on the history and theory of American filmmaking from 1895 to the present. Film will be viewed as a visual language and an evolving art form that expresses and influences American culture. **Recommended Prerequisites:** WRD-098 or placement in WR-121Z

	•		•		
oc	ENG-195-01	336474 MW		1-2:50	PM
	B DAVIS	\$504.00	\$52 00	\$0.00	\$556.00

ENG-218 ARTHURIAN LITERATURE, 4 CREDITS

Explores the origins and development of Arthurian literature, focusing on the historical, cultural, social, and literary significance of original texts. Considers the Arthurian body of literature in the larger context of Western civilization and literary traditions, including its influence on contemporary literature, film, and art. Introduces theoretical approaches to literature and basic literary elements and terminology.

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

ос	ENG-218-01	338045 TTH		1-2:50 F	РМ
	C. BURNELL	\$504.00	\$52.00	\$0.00	\$556.00

ENG-226 POPULAR LITERATURE, 4 CREDITS

Focuses on genre work within prose, film, comics and/or videogames that is specific in theme and targeted towards a more mass audience than traditional literary work. Genres might include but not necessarily be limited to horror, fantasy, science fiction, romance, and/or westerns. May be repeated for up to 8 credits.

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

ос	ENG-226-01	340196 TTH	10-11:5	60 AM
	A. WARREN	\$504.00	\$52.00 \$0.00	\$556.00
	Exploring pop	ular literature with	a focus on the ho	prror genre.

ENG-261 LITERATURE OF SCIENCE FICTION, 4 CREDITS

Explores historical, cultural, social, and literary significance of science fiction literature; places science fiction into the larger context of World literature and literary tradition. Considers how science fiction is often a lens to examine cultural themes such as gender, sexuality, race, and other ways that humans focus on difference; introduces theoretical approaches and basic literary elements and terminology.

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

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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,V Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total	
ONL	ENG-261-01	336481					
	N. ROSEVEAF	1	\$504.00	\$52.00	\$0.00	\$556.00	

2025/SF

ENG-270 INTRODUCTION TO LITERARY CRITICISM, 4 CREDITS

Students will closely study famous literary texts through a variety of critical approaches such as structuralism, Feminist criticism, Psychoanalytic criticism, Marxist criticism, and queer theory. **Recommended Prerequisites:** WRD-098 or placement in WR-121Z

			piacouri	•••••	
ONL	ENG-270-01 3364	82			
	T. DONNELLY	\$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 336484 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	336490			
	A. COFFEY	\$126.00	\$13.00	\$0.00	\$139.00

Environmental Science

ESR-173 INTRODUCTION TO SUSTAINABILITY, 4 CREDITS

Introduction to environmental, ecological and human sustainability. Focus on human impacts on environmental degradation and methods to approach sustainability and environmental justice. The laboratory assignments will focus on applied introductory sustainability topics.

Corequisites: ESR-173L

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

Recommended Prerequisites: WRD-098

ос	ESR-173-01 33656	8 TTH	1-2:20 P	М
	E. CAVALIERE	\$504.00 \$	52.00 \$55.00	\$611.00
	Corequisite: Take 1 d	of the following	ESR-173L-01,	ESR-
	173L-02, ESR-173L-	03.		
ONL	ESR-173-02 33657	0		
	E. CAVALIERE	\$504.00 \$	52.00 \$55.00	\$611.00
	This section has an i	n-person lab r	equirement. Cor	requisite:
	Take 1 of the followir	ig ESR-173L-(01, ESR-173L-0	2, ESR-
	173L-03.	•		
ONL	ESR-173-15 33657	2		
	E. CAVALIERE	\$504.00 \$	52.00 \$55.00	\$611.00
	Corequisite: Take the	following ES	B-173L-15	

ESR-173L INTRODUCTION TO SUSTAINABILITY LAB, 0 CREDIT

Lab course for ESR-173

Corequisites: ESR-173

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

Course No	Course Title, Cr	edits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total
OC	ESR-173L-01	336573	T		9-11:50 AM	
	E. CAVALIERE	Ξ	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Ta 02.	ake 1 of	the follov	ving ESR	-173-01, ESR	-173-
oc	ESR-173L-02	336574	W		1-3:50 PM	
	E. CAVALIERE	Ξ	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Ta 02.	ake 1 of	the follov	ving ESR	-173-01, ESR	-173-
oc	ESR-173L-03	336576	TH		2-5:20 PM	
	E. CAVALIERE	Ξ	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Ta 02.	ake 1 of	the follov	ving ESR	-173-01, ESR	-173-
HAR	ESR-173L-15	336578	TH		6-8:50 PM	
	S. BALLEW		\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Ta	ake the t	following	ESR-173	-15.	
	.					

Family Studies

HDF-140 CONTEMPORARY AMERICAN FAMILIES, 3 CREDITS

This course focuses on the diversity of the American family today and a historical overview of changes in the family environment and structure. Topics will include internal/external factors that influence families such as parenting, culture, gender, divorce, remarriage, economics, and culture. Course has a focus on issues of equity, diversity, and inclusion.

OC HYB LC	T HDF-140-01	336603	W		10-11:5	50 AM
	Y. SMITH		\$378.00	\$39.00	\$0.00	\$417.00
	Meets: 4/2, 4/	/16, 4/30,	5/14, 5/2	8.		
ONL	HDF-140-02	336607	,			
	Y. SMITH		\$378.00	\$39.00	\$0.00	\$417.00

HDF-247 PRESCHOOL THROUGH ADOLESCENT CHILD DEVELOPMENT, 3 CREDITS

This course focuses on principles of development in children three years old through adolescence, including physical, cognitive, language, and social and emotional growth. Explores major historical theories of child development and current research and practices. A focus on how culture, family dynamics, and socio-economic status impact growth and development are included.

Prerequisites: HDF-225

 ONL
 HDF-247-01
 336613

 D. HENDRICKS
 \$378.00
 \$39.00
 \$417.00

 This is an accelerated five-week online course which meets:
 5/5 - 6/14.
 \$100

HDF-DESARROLLO Y CRECIMIENTO EN LA NIÑEZ:247ESPREESCOLAR HASTA LA ADOLESCENCIA, 4 CREDITS

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

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

REM ESPAÑOL	HDF-247ES-01 340016	М		6-7:50 F	PM
LOPANOL	Y. SANCHEZ La clase se reúne cince 5/19, 6/12) de 6:00PM		or Zoom		\$556.00 I, 5/5,

HDF-260 UNDERSTANDING CHILD ABUSE AND NEGLECT, 3 CREDITS

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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,) Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total

2025

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	336615			
	C. BAKER	\$378.00	\$39.00	\$0.00	\$417.00

HDF- ENTENDER EL ABUSO Y LA NEGLIGENCIA INFANTIL, 3 260ES CREDITS

Este curso ofrece una descripción general del abuso y la negligencia infantil. Los estudiantes examinarán los tipos y las causas de abuso, como también el perfil típico de un niño abusado ny de los padres abusivos. Se examinarán igualmente el tratamiento, la educación y prevención, y los recursos disponibles para ayudar a niños y familias. Se hace hincapié en la intervención y los informes obligatorios, así como en las investigaciones sobre el abuso y las consideraciones legales.

ONL ESPAÑOL	HDF-260ES-01336616							
	M. SWARTHOUT	\$378.00	\$39.00	\$0.00	\$417.00			
ESPAÑOI	HDF-200E5-02330017	·						
ESPANOL	M. SWARTHOUT	\$378.00	\$39.00	\$0.00	\$417.00			
ONL ESPAÑOL	HDF-260ES-02336617	,						

Fire Science (Wildland)

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

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

ос	FRP-130-01	339932 T	8-12:00 PM			
	J. GULLEY	\$252.00	\$26.00	\$50.00	\$328.00	

FRP-131 ADVANCED FIREFIGHTER TRAINING (S-131/S-133), 1 CREDIT

This course provides instruction that meets the training requirements for the Wildland Firefighter Type 1 position and/or Incident Commander Type 5 (ICT5).

Prerequisites: FRP-130 (S-130/S-190/L-180)

oc

FRP-131-01	336236 SU M		8-5:00 F 8-12:00	
J. GULLEY Meets: 4/6-4/7	\$126.00	\$13.00	\$20.00	\$159.00

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.

ОС НҮВ	FRP-200-01 J. GULLEY	339933	TH \$504.00	\$52.00	10-12:00 \$0.00	0 PM \$556.00
TBA: To be a department fi	Translations: nranged: contact rst class e credit class			L: Enseña /-Cost Tex	ado en esp ‹t	añol

Course	Listing											20	25/SP
Course No	Course Title, C	redits					Course No	Course Title, C	redits				
	Section No Instructor	Crs Reg.	Days (M,T, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total
							oc	FRP-255-01	340179	WTH		8-10:00 AM	

FRP-201 ADVANCED FOREST MANAGEMENT, 3 CREDITS

Discuss and explore forest management concepts and principles through classroom lecture and field trips. Contrast forest management decisions made dependent on public or private landowner objections, economics and federal and state laws that provide for protection of soil, water, air, fish, and wildlife and consideration of recreation values.

Prerequisites: FRP-101 and FRP-102

oc	FRP-201-01	339934 W	9-12:00 PM		
	G. CLINE	\$378.00	\$39.00	\$0.00	\$417.00

PORTABLE PUMPS AND WATER USE (S-211), 2 FRP-211 CREDITS

This course is designed to provide knowledge and skills to design, setup, operate, troubleshoot, and shut down portable water delivery systems. The focus is on portable pumps; it does not address water delivery for engines. There is also a field exercise where students will apply what they learned in the classroom.

Prerequisites: FRP-130 (S-130/S-190/L-180)

ос	FRP-211-01	339935	FS		8-5:00 PM	
	J. GULLEY	9	\$252.00	\$26.00	\$50.00	\$328.00
	Meets: 4/11-4/	12.				

FRP-212 WILDFIRE POWER SAWS (S-212), 2 CREDITS

The course lessons provide introduction to the function, maintenance, and use of internal combustion engine-powered chainsaws, and their tactical wildland fire application. Field exercises support entry-level training for firefighters with little or no previous experience in operating a chainsaw, providing hands-on cutting experience in surroundings similar to fireline situations. Required: Student Petition.

Prereguisites: FRP-130 (S-130/S-190/L-180), FRP-250

Required: Students must be at least 18 years of age. Must have current first aid, CPR and AED certification

ос	FRP-212-01	336241 MFSSU		8-5:00 PN	Л
	J. GULLEY	\$252.00	\$26.00	\$225.00	\$503.00
	Meets: 5/2-5/	5.			
oc	FRP-212-02	340178 M		8-12:00 P	M
	J. GULLEY	\$252.00	\$26.00	\$225.00	\$503.00

FRP-249 FOLLOWERSHIP TO LEADERSHIP (L-280), 2 CREDITS

The course prepares the student for a basic field operations leadership role. Students will be able demonstrate basic leadership skills through interactive classroom discussions and scenario based exercises.

oc	FRP-249-01	336250	MSU		8-5:00 P	M
	J. GULLEY		\$252.00	\$26.00	\$30.00	\$308.00
	Meets: 4/27-4/	28.				

PHYSICAL FITNESS AND NUTRITION FOR FIRST **FRP-255 RESPONDERS, 2 CREDITS**

This course will assist the student in meeting the physical fitness requirements for work in firefighting, and emergency medical services. Includes individual conditioning strategies, nutritional guidelines, basic exercise principles, pre-employment and lifelong fitness and conditioning. The course will prepare students for activities like the Candidate Physical Abilities Test (CPAT), work capacity test and other physical ability tests required for first responders. May be repeated for up to 6 credits.

Required: Complete a physical performed by a licensed physician prior to attending

Recommended: Have adequate outdoor exercise attire and be prepared for arduous physical activity

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

	Instructor	Tuition	Fee	Crs. Fee	Total
OC	FRP-255-01 J. GULLEY	340179 WTH \$252.00	\$26.00	8-10:00 \$0.00	AM \$278.00

FRP-270 BASIC AIR OPERATIONS (S-270), 1 CREDIT

The course introduces students to basic air operations including the different types of aircraft used in wildland firefighting operations along with mission planning, risk management, safety, and communications.

ос	FRP-270-01	336255 TH		12:30 -2:00 PM		
	J. GULLEY	\$126.00	\$13.00	\$30.00	\$169.00	

FRP-290 **INTERMEDIATE WILDLAND FIRE BEHAVIOR (S-290), 3** CREDITS

This course provides the student with the basic skills to determine the characteristics of fuels(vegetation) when involved in a wildland fire, the effects weather has on a wildland fire, the various topographic features that impact wildland fire and the fire behavior patterns of a wildland fire. Prerequisites: FRP-130 (S-130/S-190/L-180)

ос	FRP-290-01	339931	SSU		8-5:00 PI	N
	B. REID	5	\$378.00	\$39.00	\$50.00	\$467.00
	Meets: 4/5, 4/6	6, 4/12, ar	nd 4/13.			

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.

ос	FYE-101-01	336497 MW		9-9:50 AM	
	D. GREEN	\$0.00	\$0.00	\$93.00	\$93.00
oc	FYE-101-03	336504 T		9-10:50 AM	Λ
	C. SIMS	\$0.00	\$0.00	\$93.00	\$93.00
ONL	FYE-101-04	336508			
	D. WOOD	\$0.00	\$0.00	\$93.00	\$93.00

FYE-EXPERIENCIA DE PRIMER AÑO (FIRST YEAR 101ES **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 ESPAÑOL	FYE-101ES-01 336515	М		5-6:50 PM	
ESPANOL	S. DIAZ-ZAVALA	\$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.

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

Course No	Course Title, Credits			
	Section No Crs Re Instructor	g. Days (M,T,W,TH.F,S,SU) Tuition Fee	Time Crs. Fee	Total
ONL	FN-110-01 3358	66		
	T. SCOLLARD	\$378.00 \$39.00	\$82.25	\$499.25

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.

Online textbook included in section fees.

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

ONL	FN-225-01	335867				
	T. SCOLLARD)	\$504.00	\$52.00	\$105.84	\$661.84
	Online textboo	k include	ed in sect	ion fees.		
ONL	FN-225-02	335868				
	J. PAVLINAC		\$504.00	\$52.00	\$105.84	\$661.84
	Online textboo sciences-ques				Contact: h	nealth-

General Development Education (GED)

GED Classes offered Days and Evenings

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

GED-011 GED IN ESPAÑOL, 0 CREDIT

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

REM LCT ESPAÑOL	GED-011-01	336528	MW		5:30 -7:50 P	M
	A. ARISTIZAB Requerido: pe	tición de				\$50.00
	information co register at first		riana Aris	tizabal at	503-594-391	6 or
HAR LCT ESPAÑOL	GED-011-02	336532	ттн		6-8:50 PM	
LOI ANOL	C. SANCHEZ Requerido: pe		\$0.00 l estudian	\$0.00 te.	\$50.00	\$50.00

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.

HAR HYB LCT	GED-015-67	336538 MW		10-11:50	АМ
	M. NICKAS Required: Stu	\$0.00 dent Petition.	\$0.00	\$55.00	\$55.00
ONL LCT	GED-015-68 S. HATSWEL Required: Stu	+	\$0.00	\$55.00	\$55.00

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile Training Center OFF: Other Off-Campus Location Distance Education Notification: ONL: Online Only REM: Remote (w/ scheduled meetings) HYB: In-person plus online work

2025/SF

Course No	Course Title, C	redits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
ONL LCT	GED-015-69	336541				
	A. SMITH		\$0.00	\$0.00	\$55.00	\$55.00
	Required: Stud	dent Peti	tion.			
OC LCT	GED-015-80	336542	MTWTH		10-11:50 AI	N
	J. NIELSON		\$0.00	\$0.00	\$55.00	\$55.00
	Required: Stud	dent Peti	tion.			

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.

REM LCT ESPAÑOL	GED-049-02	336545	ттн		6-8:50 PM	
LOFAROL	A. ARISTIZAB Requerido: pe		\$0.00 estudian	\$0.00 te.	\$50.00	\$50.00
HAR LCT ESPAÑOL	GED-049-03	336548	MW		9-11:50 AM	
	C. SANCHEZ		\$0.00	\$0.00	\$50.00	\$50.00
	Requerido: pe	tición del	estudian	te. For re	gistration	
	information co register at first		milo Sanc	hez at 50	03-594-3029	or
HAR LCT ESPAÑOL	GED-049-04	336550	S		9-11:50 AM	
	M. ROSAS DE			\$0.00	\$30.00	\$30.00
	Requerido: pe			te.		
HAR LCT ESPAÑOL	GED-049- 04NF	336551	S		9-11:50 AM	
	M. ROSAS DE Requerido: pe			\$0.00 te.	\$0.00	\$0.00

General Science

GS-107 ASTRONOMY, 4 CREDITS

A lab course including the history of astronomy, the Earth and moon, all planets in our solar system, along with asteroids, meteors and comets. **Corequisites:** GS-107L

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

Prerequisites: WRD-090 or placement in WRD-098

ONL	GS-107-40	33660	2			
	T. STUFFLEE	BEAM	\$504.00	\$52.00	\$25.00	\$581.00
	Corequisite:	Take the	following (GS-107L	-40.	

GS-107L ASTRONOMY LAB, 0 CREDIT

Lab course for GS-107

Corequisites: GS-107

ONL	GS-107L-40 33660	4			
	T. STUFFLEBEAM	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take the	e following	GS-107-	40.	

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.

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

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

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	339936		
	A. ARMEN	\$252.00 \$2	26.00 \$30.00	\$308.00

GIS-232 DATA COLLECTION & APPLICATION, 2 CREDITS

This course introduces data collection techniques and application of those techniques. This course explores different techniques to collect spatial and attribute data. The class focuses on GPS (Global Positioning System) data collection using a combination of recreational/mapping-grade GPS units and standard mobile devices (with embedded GPS) used in industry. The class will emphasize the capabilities and strengths of each type of data collection equipment. **Prerequisites:** GIS-101

ONL	GIS-232-01	336257		
	A. KELLEY	\$252.00	\$26.00 \$30.00	\$308.00

GIS-286 REMOTE SENSING, 3 CREDITS

This course is an introduction to the science of remote sensing. The course explores the techniques used to acquire, interpret, and process remotely sensed data. It provides a historical analysis of the technology, the interpretation of remotely sensed data, and the use of remote sensing data in GIS. Active and passive systems are explored as well as methodologies to transform and rectify remotely sensed raster data. Students explore applications of remote sensing using real-world examples and data.

Prerequisites: GIS-201

REM	GIS-286-01	336261 TTH		5-7:50 PN	1
	A. ARMEN	\$378.00	\$39.00	\$20.00	\$437.00

Geography

GEO-110 CULTURAL & HUMAN GEOGRAPHY, 4 CREDITS

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

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

ONL LCT GEO-110-01 336554

C. FELDMAN	\$504.00	\$52.00	\$0.00	\$556.00
Online textbook provi	ded first da	ay of clas	s.	

GEO-130 INTRODUCTION TO ENVIRONMENTAL GEOGRAPHY, 4 CREDITS

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

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

ONL GEO-130-01 336557

A. ARMEN \$504.00 \$52.00 \$109.99 \$665.99 Online textbook included in section fees.

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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,V Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total

GEO-208 GEOGRAPHY OF THE UNITED STATES & CANADA, 4 CREDITS

Provides students with the fundamental geographical knowledge of the United States and Canada and their paths of development. Presents the spatial arrangement of culture, economics, politics, and the natural environment.

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

ONL	GEO-208-01	338067			
	C. FELDMAN	\$504	4.00 \$52.00	\$0.00	\$556.00

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. **Coreauisites:** CWE-281

ос	GEO-280-01 336559	
	C. FELDMAN \$756.00 \$78.00 \$45.00 \$879.00	٧
	D. LOUGEE	
	Required: Student Petition. Corequisite: Take the following	
	CWE-281-06.	

Geology

G-103 GENERAL GEOLOGY, 4 CREDITS

For non-science majors. A lab course that examines the geological development of the North American continent through topics such as geologic time, plate tectonics, mountain building earthquakes/faults, and fossils. Examines important events in each geologic era and includes fossil ID, compass use, field techniques and GPS.

Corequisites: G-103L

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

OC HYB LCT	G-103-01	336579 MW	;	3-4:20 PM	
	A. KOTASH	\$504.00	\$52.00 \$	650.00	\$606.00
	Corequisite: T	ake 1 of the follow	ving G-103	L-01, G-10	3L-02.
ос	G-103-02	336581 TTH		10-11:20 A	M
	B. WALKER	\$504.00	\$52.00 \$	50.00	\$606.00
	Corequisite: T	ake 1 of the follow	ving G-103	L-01, G-10	3L-02.
HAR LCT	G-103-20	336583 T	(6-8:50 PM	
	J. WOODCOC	CK \$504.00	\$52.00 \$	50.00	\$606.00
	Corequisite: T	ake the following	G-103L-20		

G-103L GENERAL GEOLOGY LAB, 0 CREDIT

Lab course for G-103

Corequisites: G-10	З
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OC LCT	G-103L-01	336585 T		1-3:50 P	м
	A. KOTASH	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite:	Take 1 of the follow	wing G-1	03-01, G-10	03-02.
OC LCT	G-103L-02	336587 TH		1-3:50 P	М
	B. WALKER	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite:	Take 1 of the follow	wing G-1	03-01, G-10	03-02.
HAR LCT	G-103L-20	336590 TH		6-8:50 P	М
	J. WOODCO	CK \$0.00	\$0.00	\$0.00	\$0.00
	Corequisite:	Take the following	G-103-2	0.	

G-203 GENERAL GEOLOGY, 4 CREDITS

For science majors. A lab course that examines the geological development of the North American continent through topics such as geologic time, plate tectonics, mountain building earthquakes/faults, and fossils. Examines important events in each geologic era and includes fossil ID, compass use, field techniques and GPS.

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

Course Title, Ci	redits					
Section No Instructor	Crs Reg.	Days (M,T,W Tuition	/,TH.F,S,SU) Fee	Time Crs. Fee	Total	
Prerequisites: G-202 with a C or better Corequisites: G-203L Recommended Prerequisites: MTH-065 or placement in MTH-080 or MTH-095						
A. KOTASH		\$504.00		\$50.00	\$606.00	
G-203-02 B. WALKER Corequisite: T	ake 1 of	\$504.00 the follow		\$50.00	\$606.00	
	ĸ	\$504.00			\$606.00	
for G-203	EOLOGY	'LAB, 0 (CREDIT			
A. KOTASH		\$0.00	\$0.00 ring G-20	\$0.00	\$0.00	
G-203L-02 B. WALKER Corequisite: T		\$0.00		\$0.00	\$0.00	
	Ж	\$0.00	\$0.00	\$0.00	\$0.00	
	Section No Instructor tes: G-202 with es: G-203L ded Prerequis G-203-01 A. KOTASH Corequisite: T G-203-02 B. WALKER Corequisite: T GENERAL GI for G-203 es: G-203 G-203L-01 A. KOTASH Corequisite: T G-203L-02 B. WALKER Corequisite: T G-203L-02 B. WALKER Corequisite: T G-203L-02 J. WOODCOO J. WOODCOO	Instructor tes: G-202 with a C or b es: G-203L inded Prerequisites: MT G-203-01 336591 A. KOTASH Corequisite: Take 1 of G-203-02 336593 B. WALKER Corequisite: Take 1 of G-203-02 336595 J. WOODCOCK Corequisite: Take 1 of GENERAL GEOLOGY for G-203 es: G-203 G-203L-01 336596 A. KOTASH Corequisite: Take 1 of G-203L-02 336598 B. WALKER Corequisite: Take 1 of G-203L-02 336596 B. WALKER Corequisite: Take 1 of G-203L-02 336596 D. WALKER Corequisite: Take 1 of G-203L-20 336600 J. WOODCOCK	Section No Instructor Tes: G-202 with a C or better es: G-203L ded Prerequisites: MTH-065 or G-203-01 336591 MW A. KOTASH \$504.00 Corequisite: Take 1 of the follow G-203-02 336593 TTH B. WALKER \$504.00 Corequisite: Take 1 of the follow G-203-20 336595 T J. WOODCOCK \$504.00 Corequisite: Take the following G GENERAL GEOLOGY LAB, 0 G for G-203 es: G-203 G-203L-01 336596 T A. KOTASH \$0.00 Corequisite: Take 1 of the follow G-203L-02 336598 TH B. WALKER \$0.00 Corequisite: Take 1 of the follow G-203L-02 336598 TH B. WALKER \$0.00 Corequisite: Take 1 of the follow G-203L-02 336598 TH B. WALKER \$0.00 Corequisite: Take 1 of the follow G-203L-02 336598 TH B. WALKER \$0.00 Corequisite: Take 1 of the follow G-203L-02 336598 TH B. WALKER \$0.00 Corequisite: Take 1 of the follow	Section No InstructorCrs Reg. TuitionDays (M.T.W.TH.F.S.SU) TuitionTuitionFeetes:G-202 with a C or betteres:G-203Lded Prerequisites:MTH-065 or placemedG-203-01336591 MWA. KOTASH\$504.00 \$52.00Corequisite:Take 1 of the following G-20G-203-02336593 TTHB. WALKER\$504.00 \$52.00Corequisite:Take 1 of the following G-20G-203-02336595 TJ. WOODCOCK\$504.00 \$52.00Corequisite:Take the following G-203L-20GENERAL GEOLOGY LAB, 0 CREDITfor G-203es:G-203G-203L-01336596 TA. KOTASH\$0.00 \$0.00Corequisite:Take 1 of the following G-20G-203L-02336598 THB. WALKER\$0.00 \$0.00Corequisite:Take 1 of the following G-20G-203L-02336598 THB. WALKER\$0.00 \$0.00Corequisite:Take 1 of the following G-20G-203L-02336600 THJ. WOODCOCK\$0.00S0.00\$0.00	Section No Instructor Crs Reg. Tuition Days (M.T.W.TH.F.S.SU) Fee Time Crs. Fee tes: G-202 with a C or better tes: G-203L tes: G-203L tes: G-203L ded Prerequisites: MTH-065 or placement in MTH-065 tes: G-203L tes: G-203L G-203-01 336591 MW 3-4:20 PM A. KOTASH \$504.00 \$52.00 \$50.00 Corequisite: Take 1 of the following G-203L-01, G-20 G-203-02 336593 TTH 10-11:20 A B. WALKER \$504.00 \$52.00 \$50.00 Corequisite: Take 1 of the following G-203L-01, G-20 G-203-02 336595 T 6-8:50 PM J. WOODCOCK \$504.00 \$52.00 \$50.00 Corequisite: Take 1 of the following G-203L-20. GENERAL GEOLOGY LAB, 0 CREDIT for G-203 es: G-203 G-203L-01 336596 T 1-3:50 PM A. KOTASH \$0.00 \$0.00 \$0.00 Corequisite: Take 1 of the following G-203-01, G-203 G-203-01 G-203L-02 336598 TH 1-3:50 PM A. KOTASH \$0.00 \$0.00 \$0.00 Corequisite: Take 1 of the following G-203-01, G-203 G-203-01 G-203L-02 336598 TH	

Gerontology

GRN-183 DEATH AND DYING, 3 CREDITS

Introduces effective interaction with those experiencing death or grief process. Includes: historical and cross cultural perspectives, funeral and death rites, grief across the lifespan, hospice and palliative care, ethical considerations and physician aid in dying.

ONL LCT	GRN-183-01	335848			
	Y. SMITH	\$378.00	\$39.00	\$0.00	\$417.00

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

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

Prerequisite or Corequisite: HS-170

Corequisites: HS-270

HAR	GRN-280-01	335850			
	J. LOVELESS	\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Stud	dent Petition.			

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.

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

2025/SF

Course No	o Course Title, Credits					
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
ONL	HE-163-01	336605				
	T. PANTAGES		\$378.00	\$39.00	\$0.00	\$417.00
ONL	HE-163-02	336606				
	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

ON HE-164-01 336608

HE-104-01	330000			
T. PANTAGES	\$378.00	\$39.00	\$0.00	\$417.00

PERSONAL TRAINING, 3 CREDITS HF-201

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	336610			
	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	336612			
	J. BUEL	\$378.00	\$39.00	\$0.00	\$417.00

HE-207 **INTRODUCTION TO PLANT BASED LIVING, 3 CREDITS**

The course is designed to give students a basic understanding of a plant based diet/lifestyle and the benefits of this type of lifestyle. Students will learn about the physical benefits of a plant based diet, organic foods, current environmental impacts of the big agricultural companies, animal welfare, and workers' rights as well as the research that has been documented to support the information.

ONL	HE-207-01	336619			
	T. NELSON	\$378.00	\$39.00	\$0.00	\$417.00

SPORTS NUTRITION, 3 CREDITS HE-223

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	336621
	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	336622 MW	1-2:20 PM		
	K. WOODS	\$378.00	\$39.00	\$0.00	\$417.00

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

Course Listing 2025/SF Course No Course Title, Credits Course No Course Title, Credits Crs Reg. Section No Crs Reg. Days (M,T,W,TH.F,S,SU) Time Section No Days (M,T,W,TH.F,S,SU) Time Instructor Tuition Fee Crs. Fee Total Instructor Tuition Fee Crs. Fee Total HE-250 **PERSONAL HEALTH, 3 CREDITS** Introduces CPR, first aid, and bloodborne pathogens to individuals

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-250-02 J. RHODEN	336627	\$378.00	\$39.00	\$0.00	\$417.00
ONL	HE-250-03 J. RHODEN Meets: 5/11-6/	336629 /14.	\$378.00	\$39.00	\$0.00	\$417.00

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	336631
	K. WOODS	\$378.00 \$39.00 \$35.00 \$452.00
ONL	HE-252-02	336632
	K. ARIZO	\$378.00 \$39.00 \$35.00 \$452.00
ONL	HE-252-04	336633
	T. NELSON	\$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 HE-280-01 336634 T. NELSON \$756.00 \$78.00 \$45.00 Required: Student Petition. Review the registration process and complete the online application to the program at http://www.clackamas.edu/CWE-Students.aspx prior to registering. 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 J. RHODEN	336676 \$378.00	¢20.00	¢20.00	\$447.00
	J. HIODEN	φ 378.00	φ 39.00	φ30.00	φ447.00

Health Professions

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

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

necomine	ended Frerequi	Siles. WhiD-030		
HAR HYB	HP-100-01	340186 TBA		
	S. COOPER	\$126.00	\$13.00 \$15.00	\$154.00
	Additional cos	sts associated with	this course includ	le: \$22
	Bloodborne P	athogens Certifica	te, \$36 CPR Card	, \$16.50
	First Aid Certi	ficate for a total of	\$74.50 additional	cost. The
	section will me	eet for four hours of	on a date TBD. Mo	ore
	information wi	ill be given in the f	irst couple weeks	of class.
		-		

HP-110 MEDICAL TERMINOLOGY, 4 CREDITS

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

ONL	HP-110-01	337507	
	T. BOYD	\$504.00 \$52.00 \$60.00	\$616.00
ONL	HP-110-02	337508	
	T. BOYD	\$504.00 \$52.00 \$60.00	\$616.00
ONL	HP-110-03	337509	
	T. BOYD	\$504.00 \$52.00 \$60.00	\$616.00

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	340184				
	S. DAVENPO	RT	\$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 LCT ASE-042-03	336211 M		4-4:50 PM	
M. TIZO	\$0.00	\$0.00	\$0.00	\$0.00
Required: Stu				

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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

Course No	Course Title, Credits						
	Section No Instructor	Crs Reg.	Days (M,T, Tuition	W,TH.F,S,SU)	Time Crs. Fee	Total	
	monuotor		randon	100	010.100	rotai	

XASE- BASIC ESSENTIAL SKILLS SUPPORT, 0 CREDIT 0001

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.

HAR HYB LCT	XASE-0001-03 336993 MW			10-11:50 AM		
201	L. NIELSON	\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student	t Petition.				

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

 ONL LCT
 HST-101-01
 336635

 P. MCFARLAND
 \$504.00
 \$52.00
 \$0.00
 \$556.00

 Online textbook provided first day of class.
 \$556.00
 \$556.00
 \$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

OC HYB LC	T HST-103-01 3366	40 W		10-11:50	АМ
	P. MCFARLAND	\$504.00	\$52.00	\$0.00	\$556.00
	Online textbook prov	/ided first da	y of clas	s.	
ONL LCT	HST-103-02 3380	68			
	P. MCFARLAND	\$504.00	\$52.00	\$0.00	\$556.00
	Online textbook prov	/ided first da	y of clas	s.	

HST-132 HISTORY OF LANGUAGE AND THE WRITTEN WORD IN WESTERN CIVILIZATION, 4 CREDITS

Explores the topics of language and the written word in western civilization from ancient Greece to the present and relates them to the political, social, economic, intellectual, and cultural trends of each time period.

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

ONL	HST-132-01 3366	42		
	P. MCFARLAND	\$504.00 \$5	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

ONL	HST-201-01	336644	

J. FLOWERS	\$504.00	\$52.00	\$59.41	\$615.41
Online textbook	included in sect	ion fees.		

HST-203 HISTORY OF THE UNITED STATES, 4 CREDITS

Covers the period of United States history since and including WWI.

Course No	Course Title, C	redits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
Prerequisite or Corequisite: WRD-098 or placement in WR-121Z						
	ided Prerequis taken in order	sites: Se	quence o	f HST-20	1, HST-202 a	and

2025/S

ос	HST-203-01 336646 TTH 10-11:50 AM				
	J. FLOWERS \$504.00 \$52.00 \$59.41 \$615.	41			
	Online textbook included in section fees.				
ONL	HST-203-02 336649				
	J. FLOWERS \$504.00 \$52.00 \$59.41 \$615.	41			
	Online textbook included in section fees.				

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

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Cooperative work experience. Provides students with on-the-job work experience in the field of history. Required: Student Petition. **Corequisites:** CWE-281

С	HST-280-01	336651				
	J. FLOWERS		\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Stud CWE-281-06.	dent Peti	tion. Core	equisite:	Take the	following

Horticulture/Arboriculture/Landscape/Organic Farming

For more information call 503-594-3292 or email <u>horticulture@clackamas.edu</u>

HOR-112 HORTICULTURE CAREER EXPLORATION, 2 CREDITS

This course is a survey of the various career options available to students in the horticulture industry, with emphasis on nursery and greenhouse production, retail nursery, organic fruit and vegetable production, and landscape maintenance/installation. Includes field trips to local businesses. Oregon State University transfer course.

OC LCT	HOR-112-01	336636 TH		1-3:50 F	РМ
	F. KILDERS	\$252.00	\$26.00	\$50.00	\$328.00
	Meets: Thurso	days 4/3-5/22.			

HOR-120 PESTICIDE LAWS & SAFETY, 1 CREDIT

This course engages students with the laws, regulations, and best management practices used to control pests, weeds, and diseases. Focus on applicator safety, environmental protection, and storage and handling requirements. Prepares students to sit for the Oregon Pesticide Laws & Safety exam.

ONL LCT	HOR-120-01 336638	3			
	J. WENTWORTH-	\$126.00	\$13.00	\$50.00	\$189.00
	PLATO				
	Meets: Online 3/31-5/4	4.			

HOR-123 LANDSCAPE MAINTENANCE, 3 CREDITS

Principles and practices of sustainable landscape maintenance, plant growth and development, soil-water-fertilizer management, pruning, turf, pest control, diagnosis of problems in trees and shrubs, and maintenance scheduling.

ос	HOR-123-01	336639 W		8-11:50	АМ
	A. CHASTAIN	\$378.00	\$39.00	\$40.00	\$457.00

HOR-135 PROPAGATION OF EDIBLE PLANTS, 3 CREDITS

Reproduce food plants using a variety of methods, including seed, cutting and grafting techniques. Instruction will focus on methods suitable for sustainable farm operations.

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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

Course No	Course Title, Cre	dits				
	Section No C Instructor	Crs Reg.	Days (M,T,W Tuition	/,TH.F,S,SU) Fee	Time Crs. Fee	Total
OC LCT	HOR-135-01	336641	W		8-11:50 A	М
	G. LOEFFLER		\$378.00	\$39.00	\$70.00	\$487.00

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	336643 W		1-3:50 PM	
	D. FRANEK	\$378.00	\$39.00	\$65.00	\$482.00

HOR-141 ORGANIC FARMING PRACTICUM/SPRING, 4 CREDITS

Essential organic farming practices, including seasonal activities such as production of transplants, direct seeding, pest, disease, and weed management strategies, bed preparation, equipment operations, and soil, water and fertilizer management. Class lecture, field trips, and lab are all included in this course. This format has been selected to create a hands-on experience for each student in seasonal crop production.

OC LCT	HOR-141-01	336645 TTH		8-11:50	AM
	D. ROSTAD	\$504.00	\$52.00	\$80.00	\$636.00

HOR-142 GREENHOUSE II, 3 CREDITS

Detailed study of environmental influences on individual crops, their requirements, scheduling, including annual, biennial, and perennial plant production.

Prerequisites: HOR-122

oc	HOR-142-01	336647 TH		8-11:50 AM	
	F. KILDERS	\$378.00	\$39.00	\$50.00	\$467.00

HOR-143 HORTICULTURE PRACTICUM/SPRING, 2 CREDITS

Practical experience with seasonal (spring) horticulture activities in the areas of container nurseries, greenhouses, and landscape management. **Prerequisites:** HOR-133

ос	HOR-143-01	336648 F		11:30 -4	:30 PM
		М		8-11:50	AM
	A. CHASTAIN	\$252.00	\$26.00	\$50.00	\$328.00
	F. KILDERS				
	Required atten	ndance on Friday	5/9.		

HOR-214 ORGANIC CUT FLOWER FARMING, 2 CREDITS

Essential organic flower farming techniques, including seasonal activities such as planning, propagation of cut flowers, transplanting, direct seeding, weeding, harvesting, bed preparation, and soil, water, and fertilizer management as they pertain to cut flower growing. Class lecture, field trips, and lab are all included in this course. This format has been selected to create a hands-on experience for each student in producing cut flowers for market.

OC HYB	HOR-214-01	340259	F		8-11:50	AM
	D. ROSTAD		\$252.00	\$26.00	\$40.00	\$318.00
	Hybrid. Meets	: Fridays	5/16-6/13	3; additio	nal hours	s online.

HOR-215 HERBACEOUS PERENNIALS, 3 CREDITS

The identification, propagation, selection and garden culture as well as individual attributes of herbaceous perennial plants, including the evolution of perennial garden design and current gardening styles. Oregon State University transfer course.

ос	HOR-215-01	336650 T	1-4:50 PM		
	L. BEUTLER	\$378.00	\$39.00	\$45.00	\$462.00

HOR-228 PLANT IDENTIFICATION/SPRING, 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

2025/SF

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

OC LCT	HOR-228-01	336652	т		8-11:50 AM	Л
	F. KILDERS		\$504.00	\$52.00	\$45.00	\$601.00
OC HYB LCT	HOR-228-02	336653	W		6-8:30 PM	
	J. WENTWOR PLATO	TH-	\$504.00	\$52.00	\$25.00	\$581.00

HOR-234 ADVANCED LANDSCAPE DESIGN, 3 CREDITS

Further skill development in drawing, site analysis, and design, including two & three dimensional design concepts. Graphic exercises will be included as well as the study of creative and practical solutions for various site and program requirements of small commercial and residential landscape sites.

Prerequisites: HOR-229

Recommended Prerequisites: Prior Plant ID knowledge or HOR-226, HOR-227, and HOR-228

OC HYB LCT HOR-234-01	337969 T		6-8:50 F	PM				
M. MELCO	\$378.00	\$39.00	\$45.00	\$462.00				
	On campus labs Tuesdays 4/1, 5/6, 6/10, all other dates Remote at time listed.							

HOR-240 IRRIGATION PRACTICES, 3 CREDITS

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

Recommended Prerequisites: HOR-231

OC HYB LCT HOR-240-01	336655 W		6-8:50 PM	
A. CHASTAIN	\$378.00	\$39.00	\$45.00	\$462.00
G. KUNKLE				

HOR-246 ORGANIC GARDENING, 2 CREDITS

Growing organically addresses two of today's common concerns: health and sustainability. Learn organic gardening skills like how to create a garden plan, build healthy soil, make and use your own compost, add fertility with cover crops, choose the best crop varieties for our region, and practice proper planting and harvest techniques. This class is great for beginners, and gardeners who are looking to take their skills to a deeper level.

OC LCT	HOR-246-01	336658	М	1-4:50 PM) PM	
	G. LOEFFLER		\$252.00	\$26.00	\$50.00	\$328.00

HOR-249 LANDSCAPE BIDDING AND ESTIMATING, 1 CREDIT

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

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

ос	HOR-249-01	336659	Μ		3-4:50 PM		
	A. CHASTAIN		\$126.00	\$13.00	\$15.00	\$154.00	
	Meets: Monda						

HOR-250 ORGANIC HERB GROWING, 1 CREDIT

Study of herb propagation, growing, and use. Identification of herbs, planning, site requirements and care of plants are covered. Learn how to plan for garden, small-scale, and larger farm production.

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

Course No	Course Title, Cr	edits					Course No	Course Title, Cr	redits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T,) Tuition	N,TH.F,S,SU) Fee	Time Crs. Fee	Total
OC LCT	HOR-250-01 D. ROSTAD		\$126.00	\$13.00	8-11:50 A \$30.00	M \$169.00	OC	G. LOEFFLER		\$378.00		\$45.00	\$462.0
	Meets: Fridays	s 4/4-5/2	•					Required: Stuc				uioito: Tok	o tho

HOR-261 TREE DIAGNOSTICS, 2 CREDITS

Theory and practice in diagnosing specific biotic and abiotic causes of poor tree health. Includes identification of symptoms, use of monitoring tools and effective customer communications.

Prerequisites: HOR-120, HOR-216, HOR-225. HOR-236 or HOR-237

OC LCT	HOR-261-01	336661	тн		1-4:50 PM					
	J. WENTWORT	ГН-	\$252.00	\$26.00	\$90.00	\$368.00				
	If you have arboriculture industry experience and wish to take this class, contact jimwp@clackamas.edu.									

HOR-263 PLANT HEALTH CARE PRACTICUM, 2 CREDITS

Experience best management practices in Plant Health Care for trees and shrubs of the Pacific Northwest. Synthesize information from prerequisite courses to evaluate work sites for risk, plant health, and pathogens. Propose maintenance schedules and adapt them based on customer interaction. Working as a team, maintain landscapes on CCC properties using hand and power tools such as shears, saws, mowers, chippers, and sprayers.

Prerequisites: HOR-115, HOR-131 and HOR-216, HOR-236 or HOR-237

OC LCT	HOR-263-01	336662	М		8-11:50	AM
	J. WENTWORTH-		\$252.00 \$26.00	\$26.00	\$95.00	\$373.00
	PLATO					

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	HOR-280-01 33666	3			
	G. LOEFFLER	\$378.00	\$39.00	\$45.00	\$462.00
	Required: Student Pe gentiana.loeffler@claa following CWE-281-00	ckamas.ed		luisite: Tak	the

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	HOR-281-01 3366	65			
	G. LOEFFLER	\$756.00	\$78.00	\$45.00	\$879.00
	Required: Student Po gentiana.loeffler@cla following CWE-281-0	ackamas.ed		juisite: Tak	the

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

al 00 gentiana.loeffler@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

oc

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

HOR-285-01 336674 G. LOEFFLER \$378.00 \$39.00 \$45.00 \$462.00 Required: Student Petition. Contact: gentiana.loeffler@clackamas.edu. Corequisite: Take the following CWE-281-06.

XHOR-FRUIT TREE GRAFTING: BEGINNING, 0 CREDIT 0005

Hands-on explanation and practice in bench grafting of fruit trees under the supervision of experienced HOEC grafters. Each student will leave the workshop with a grafted apple tree on dwarf rootstock.

OC	XHOR-0005- 01	336904 S	9:30 -11:30 AM								
			: Saturday 4/5. Register at								
	https://bit.ly/horteventbrite Fee: \$40. Contact Loretta at lorettam@clackamas.edu with questions.										
ос	XHOR-0005-		12-2:00 PM								
	02										
	T. LORDY										
	Required: Student Petition. Meets: Saturday 4/5. Register at https://bit.ly/horteventbrite Fee: \$40. Contact Loretta at lorettam@clackamas.edu with guestions.										

LANDSCAPE IRRIGATION SYSTEM INSTALLATION & **XHOR-**C026 **MAINTENANCE, 0.80 CEUS**

Learn the basics of hydraulics and irrigation system installation and maintenance. This full-day learning session covers an overview of irrigation system components and how they operate. Learn about solvent welding and repairing PVC pipe, installing nozzles and adjusting heads, setting and repairing electric valves, and field and controller wiring techniques. Combined with industry experience, this class serves as a review for those planning to take the Irrigation Association (IA) Certified Irrigation Technician exam.

oc	at https://bit.ly	dent Petition. M	8-5:00 PM leets: Saturday 4/12. Register Fee: \$80. Contact Loretta Mills with questions.

XHOR-LANDSCAPE BOULDER SETTING, 0.40 CEUS C036

Learn the art of boulder setting for landscapes with Masa Mizuno, a highly-respected master of Japanese garden cultivation. He has worked for decades with established Japanese gardens throughout the Pacific Northwest, and has led his own landscape design/install firm for over 30 years. This workshop is intended to train your eye to view and then place boulders in an artistic way. Participants will be working outdoors with boulders. Wear appropriate clothing, closed toed shoes and bring gloves.

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

course	course Listing											2	2023/31
Course No	Course Title, Credits						Course No	Course Title, 0	Credits				
	Section No Instructor	Crs Reg.	Days (M,T,W, Tuition	TH.F,S,SU) Fee	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T) Tuition	,W,TH.F,S,SU) Fee	Time Crs. Fee	Total
OC	XHOR-C036- 01 M. MIZUNO	336915	5 F		1-5:00 PN	Л	impact of tra	se, students w aumatic stress nto their practi	. Student	s will gaiı	n knowled	lge and ski	ills they

Required: Student Petition. Meets: Friday 4/25. Details and registration at https://bit.ly/horteventbrite Fee: \$40. Contact Loretta at lorettam@clackamas.edu with questions.

XHOR- FLOWERING PLANT IDENTIFICATION, 0.30 CEUS C040

Join us for a morning of plant awareness. We'll start in the classroom, discussing features of some major plant families and locally grown genera and species of plants. We'll enjoy a stroll around the Oregon City campus looking at flowering plants and trees and how they're used in our landscape. We'll finish with a low-stakes quiz to see if you can identify all 30 samples we've talked about in the last few hours. You'll be provided with an internet link to the walk we took, showing the location and names of the plants we discussed.

ос	XHOR-C040- 3402	05 S		9-12:00 F	PM		
	01 J. WENTWORTH- PLATO	\$0.00	\$0.00	\$0.00	\$0.00		
	Required: Student Petition. Meets: Saturday 5/3. Register at https://bit.ly/horteventbrite Fee: \$20.						

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	336618 T		10-11	:50 AM
Y. SMITH	\$378.00	\$39.00	\$0.00	\$417.00
Meets: 4/8,	4/22, 5/6, 5/20, 6/3.			

HS-156 CONDUCTING HUMAN SERVICE INTERVIEWS, 3 CREDITS

Provides the specific techniques required for entry-level interviewing in human service settings. Addresses issues raised in working with clients from diverse backgrounds.

HAR HYB LCT	HS-156-01	336620 W		1-2:50	PM
201	Y. SMITH	\$378.00	\$39.00	\$0.00	\$417.00

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

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

Prerequisites: HS-100 or HS-154

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

ONL	HS-170-01	336623			
	Y. SMITH	\$126.00	\$13.00	\$0.00	\$139.00
	Required: Stu	udent Petition.			

HS-206 TRAUMA INFORMED PRACTICES, 3 CREDITS

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile Training Center OFF: Other Off-Campus Location Distance Education Notification: ONL: Online Only REM: Remote (w/ scheduled meetings) HYB: In-person plus online work In this course, students will learn how to recognize and respond to the impact of traumatic stress. Students will gain knowledge and skills the can infuse into their practices and act in a way that maximizes physic 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.

2025/9

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

ос нув LCT HS-206-01	335851 TH		1-2:50 PM	
C. BAKER	\$378.00	\$39.00	\$0.00	\$417.00
Meets: 4/3,	4/17, 5/1, 5/15, 5/29			

HS-216 GROUP COUNSELING SKILLS, 3 CREDITS

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

HAR	HS-216-01	336624	Μ		4-5:20 PM	
	T. BOYLE-		\$378.00	\$39.00	\$0.00	\$417.00
	GALESTIANTZ	2				

HS-232 CASE MANAGEMENT, 3 CREDITS

Introduces case management techniques used by corrections and human services professionals in one-on-one and group contacts with clients. Explores a variety of case management materials, with an emphasis placed upon objective case planning and monitoring. **Prereguisite or Coreguisite:** HS-156 and HS-210

ONL LCT	HS-232-01	335852								
	C. BAKER	\$378.00 \$39.00 \$0.00 \$417.00								

HS-270 HUMAN SERVICES PRACTICUM SEMINAR, 2 CREDITS

Focuses on field experience for students in a variety of human service settings, paralleling duties regularly assigned to human service workers. The course offers students a chance to discuss issues faced in the field, and apply human services concepts and theories to their work. Students will reflect on program curriculum and how their knowledge influences the work in the field. May be repeated for up to 6 credits. Required: Student Petition.

Corequisites: GRN-280, HS-280, HS-281, or HS-282

REM	HS-270-01	336625 TH	10-11:	50 AM
	C. BAKER	\$252.00	\$26.00 \$0.00	\$278.00
	Required: Stu	dent Petition. Mee	ts: 4/3, 4/17, 5/1,	, 5/15, 5/29.

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

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

Prerequisites: HS-170

Corequisites: HS-270

OC LCT	HS-280-01	336626	;			
	J. LOVELESS		\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Stud	dent Pet	ition.			

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

Course No	Course Title, C	redits					Course No	Course Tit
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	N,TH.F,S,SU) Fee	Time Crs. Fee	Total		Section No Instructor

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

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

Prerequisites: HS-170

Corequisites: HS-270

OC LCT HS-281-01 336628 J. LOVELESS \$756.00 \$78.00 \$45.00 \$879.00V Required: Student Petition.

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

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

Corequisites: CWE-281

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

OC LCT HS-282-01 336630

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	336654 TTH		1-2:50 F	PM
	J. FLOWERS	\$504.00	\$52.00	\$0.00	\$556.00
	No textbook re	equired.			

Industrial Maintenance Technology

IMT-108 RIGGING AND LIFTING, 2 CREDITS

This course provides instruction in rigging and lifting techniques including usage and inspection of rigging equipment, developing lift plans, anchoring to concrete, and heavy machinery installation. Students will be expected to perform lifts independently and in groups.

Prerequisites: MTH-050

OC	IMT-108-01	336678	MW		5:30 -7:20	PM
	C. CONNORS		\$252.00	\$26.00	\$102.50	\$380.50

IMT-110 PREVENTATIVE MAINTENANCE, 2 CREDITS

This course will introduce students to the basics of preventative maintenance programs in an industrial environment. Students will learn about how maintenance departments are organized, how projects and tasks are defined and delegated. Topics will include maintenance organization, work order systems, maintenance planning, scheduling, quality control, controlling parts and materials costs.

Prerequisites: MTH-050

ос	IMT-110-01	336681	ттн		2-3:50 PM	
	C. CONNORS		\$252.00	\$26.00	\$102.50	\$380.50

IMT-220 INDUSTRIAL MACHINERY II, 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

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

2025/S

This second course in industrial machinery will focus on advanced concepts in machinery trouble shooting, repair and maintenance. Students will learn about the integration of mechanical, fluid power and electrical systems, their characteristics and repair. Additionally, mechanical concepts of laser shaft alignment, vibration analysis and thermal diagnosis will be covered. Other topics will include electromechanical systems, lock-out tag-out, advanced mechanical diagnosis, motors and motor controls.

Prerequisites: IMT-120

OC	IMT-220-01	336684	TTH		5-7:50 PM	
	C. CONNORS		\$378.00	\$39.00	\$153.75	\$570.75

IMT-223 INSTRUMENTATION & CONTROLS, 3 CREDITS

Introduction to control systems and instrumentation. Includes open and closed loop systems. Focuses on the use of switches, sensors, and relays to control processes.

Prerequisites: EET-137 or MFG-130

Recommend	ed Prerequisite	s: EET-141	or MFG-131	

oc	IMT-223-01	336685 TTH		1-3:50 PN	Λ
	B. HOFFMAN	\$378.00	\$39.00	\$153.75	\$570.75

Journalism

J-134 PHOTOJOURNALISM, 4 CREDITS

Introduces the student to photojournalism, emphasizing composition, lighting and creative ways to illustrate a news story through photography.

REM	J-134-01	336005	т		10-11:50 A	M
	J. SONNENM	AIR	\$504.00	\$52.00	\$10.00	\$566.00

J-211 MASS MEDIA & SOCIETY, 4 CREDITS

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

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

oc	J-211-01 336008 T		6-9:50 PM		
	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	336012 MW		1-2:50 P	М
	M. JONES	\$504.00	\$52.00	\$10.00	\$566.00

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

Course No	Course Title, Credits							
	Section No Instructor	Crs Reg.	Days (M,T,W Tuition	/,TH.F,S,SU) Fee	Time Crs. Fee	Total		
Prerequisi Recomme	ites: J-215 nded Prerequi	isites: Pla	acement i	n WR-12	1Z			
OC LCT	J-225-01 M. JONES	336017	MW \$504.00	\$52.00	1-2:50 PM \$0.00	\$556.00		
J-226				E NEWS:	DESIGN &			

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

ос	J-226-01	336018 T	1-4:50 F	PM
	M. JONES	\$504.00	\$52.00 \$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

ос	J-227-01	336023 T		1-4:50 I	РМ
	M. JONES	\$504.00	\$52.00	\$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	J-228-01 336026 T		1-4:50 PM		
	M. JONES	\$504.00	\$52.00	\$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: P	Placement in WR-121Z
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OC LCT	J-235-01	336029 MW		1-2:50 PM	
	M. JONES	\$504.00	\$52.00	\$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	J-280-01	336031				
	M. JONES		\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Stuc	lent Peti	tion.			

J-280A PUBLIC RELATIONS/CWE, 2-6 CREDITS

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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,V Tuition	W,TH.F,S,SU) 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.

Corequisites: CWE-281

ONL	J-280A-01	336041			
	M. JONES	\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Stu	dent 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 TBA Meets: 3/31-5	,	60.00	\$0.00	\$0.00	\$0.00
ONL LCT	LIB-101-02 TBA Meets: 3/31-5	*	60.00	\$0.00	\$0.00	\$0.00
ONL LCT	LIB-101-03 TBA Meets: 3/31-5	*	60.00	\$0.00	\$0.00	\$0.00

Machine Tool Technology

MTT-112 MANUAL MACHINING II, 4 CREDITS

This course is a continuation of machine tool operations. It covers set-up and operation of the vertical milling machine, lathe boring techniques, surface grinding and screw thread nomenclature.

Prerequisites: MTT-111

oc	MTT-112-01	336708 MW	5-8:50 PM			
	J. TRAVER	\$504.00	\$52.00	\$205.00	\$761.00	

MTT-113 MANUAL MACHINING III, 4 CREDITS

This course is a continuation of machine tool operations. Topics covered include offset boring heads, rotary tables, indexing devices, taper attachments and cylindrical grinding. Additional emphasis is also placed on inspections technique, technical math and optical comparators.

Prerequisites: MTT-112

ос	MTT-113-01	336710 MW	7:30 -11:	20 AM	
	J. TRAVER	\$504.00	\$52.00	\$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 3	39942 TTH		8-11:50	AM
	J. CARLSTON	\$504.00	\$52.00	\$205.00	\$761.00

MTT-122 CNC II: PROGRAMMING AND OPERATION, 4 CREDITS

This is the second course in the CNC sequence. Students will learn G&M-code programming for milling and turning while they build their setup and operation skills. There will also be an introduction to set-up probing, 4-axis mill programming and machining, sub-programming and process documentation.

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

Course	Listing											2	025/SP
Course No	Course Title, C	redits					Course No	Course Title, C	redits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T,) Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total
Prerequis	ites: MTT-111,	MTT-121	, MTH-05	50				MET-170-01	336690			3:30 -4:50	
OC	MTT-122-01 J. CARLSTON	336711 \		\$52.00	5:30 -9:2 \$205.00	0 PM \$761.00		C. CONNORS			\$39.00	\$153.75	\$570.75

MTT-141 CAD/CAM I, 4 CREDITS

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

Recommended Prerequisites: MTT-121

ос	MTT-141-01 33671	2 TTH	12-3:50 PM		
	C. LETTENMAIER	\$504.00	\$52.00	\$205.00	\$761.00

MTT-254 MILL/TURN MACHINING, 3 CREDITS

This class will introduce students to CNC mill-turn machines, their programming, and setup procedures. The course will explore limitations, advantages, and configurations of typical mill/turn machines including rotation style and set-up orientation. Post processing and virtual machine simulation will also be discussed.

Prerequisites: MTT-122

ос	MTT-254-01	336714	MW		1-3:50 PM	
	C. LETTENMA	IER	\$378.00	\$39.00	\$153.75	\$570.75

MTT-269 CAPSTONE MACHINING II, 3 CREDITS

This final course in the capstone project series will continue to allow students to demonstrate mastery of core skills that are learned in the machining program while manufacturing a complex product. Special emphasis will be given to 4 and 5-axis CNC machining and programming, material preparation for CNC machining, and precision surface grinding. May be repeated for up to 3 credits.

Prerequisites: MTT-268

OC	MTT-269-01	336717	MW		5:30 -8:20	PM
	C. LETTENMA	IER	\$378.00	\$39.00	\$153.75	\$570.75

Manufacturing Engineering Technology

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

MET-112 INTRODUCTION TO ENGINEERING AND TECHNOLOGY CAREERS, 2 CREDITS

This course is designed to provide an overview of five major engineering disciplines, their subsets and their respective career pathways. The course will also introduce students to the economic, environmental, social, political, ethical, as well as the health and safety realities of the engineering work environment. This course is intended to guide students in making appropriate career choices by exploring the following topics: engineering job demands, earning potential, marketability, licensure, and continuing education requirements.

ONL	MET-112-01	336689			
	S. PAVEY	\$252.00	\$26.00	\$102.50	\$380.50

MET-170 INTRODUCTION TO MANUFACTURING PROCESSES, 3 CREDITS

This is a survey course to introduce students to the fundamental processes that are used to manufacture everyday products. Includes machining, casting, forming, welding, molding, composites and microelectronics fabrication.

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile Training Center OFF: Other Off-Campus Location Distance Education Notification: ONL: Online Only REM: Remote (w/ scheduled meetings) HYB: In-person plus online work

Manufacturing Technology

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

MFG-103 MACHINING FOR FABRICATION & MAINTENANCE, 3 CREDITS

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

Prerequisites: MTH-050 or higher

ос	MFG-103-01 33994	11 TTH		2-4:50 PM	
	J. CARLSTON	\$378.00	\$39.00	\$153.75	\$570.75

MFG-104 PRINT READING, 3 CREDITS

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

REM	MFG-104-01	336691 TTH	691 TTH		
	TBA	\$378.00	\$39.00	\$153.75	\$570.75

MFG-107 INDUSTRIAL SAFETY & FIRST AID, 3 CREDITS

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

OC HYB	MFG-107-01	336693 F		2-4:50 PN	Λ
	L. HILLYARD	\$378.00	\$39.00	\$153.75	\$570.75

MFG-109 COMPUTER LITERACY FOR TECHNICIANS, 3 CREDITS

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

REM	MFG-109-01	336697	F		8-10:50 A	AM
	A. ARISTIZAB	AL	\$378.00	\$39.00	\$270.12	\$687.12
	Online textboo	ok includ	ed in sect	ion fees.		

MFG-132 BASIC ELECTRICITY III, 3 CREDITS

This course offers continued study in the control of industrial electric motors. Concepts in the application of relays, motor starters, switches and overload protection are explored from both a practical and theoretical viewpoint. Wiring techniques and electrical devices for residential, commercial and industrial facilities are presented along with hands-on activities. Additional topics include: electrical conductors, installation materials, and the scope of work performed by licensed electricians.

Recommended Prerequisites: MFG-130 and MFG-131

ос	MFG-132-01	336698 TH		5-7:50 PM	
	B. KARM	\$378.00	\$39.00	\$153.75	\$570.75

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

Course Listing Course No Course Title, Credits Crs Reg. Section No Days (M,T,W,TH.F,S,SU) Time Instructor Tuition Fee Crs. Fee Total oc **ROBOTICS, 3 CREDITS** MFG-219 An introduction to robotics and industrial motion control. Students will be exposed to the operation, programming and applications of a typical oc FANUC, six-axis industrial robot. Hands-on activities will include manual tech programming, testing with simulation software and programming of advanced movements. Recommended Prerequisites: MFG-209 and MTH-050

OC	MFG-219-01	336699 TTH		1-3:50 PM	
	M. MATTSON	\$378.00	\$39.00	\$153.75	\$570.75

MFG-221 MATERIALS SCIENCE, 3 CREDITS

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

Recommended Prerequisites: MTH-050

OC HYB	MFG-221-01	336702 MW		5-7:50 PN	1
	M. MATTSON	\$378.00	\$39.00	\$153.75	\$570.75

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

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

Corequisites: CWE-281

ONL

MFG-280-01 336706 C. CONNORS \$756.00 \$78.00 \$75.00 \$909.00V Required: Student Petition. Contact: Mike Mattson at mattsonm@clackamas.edu or 503-594-3322. Corequisite: Take the following CWE-281-06.

XMFG- WORK SESSIONS: MAKERSPACE, 0 CREDIT 0008

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

oc XMFG-0008- 01	340208	F		5-8:50 PM		
	C. CONNORS Meets: 4/4.		\$0.00	\$0.00	\$0.00	\$0.00
ос	XMFG-0008- 02 C. CONNORS Meets: 4/11.	340209	F		5-8:50 PM	
			\$0.00	\$0.00	\$0.00	\$0.00
oc XMFG-0008-	340210	F		5-8:50 PM		
	03 C. CONNORS Meets: 4/18.		\$0.00	\$0.00	\$0.00	\$0.00
ос	XMFG-0008-	340211	F		5-8:50 PM	
	04 C. CONNORS Meets: 4/25.		\$0.00	\$0.00	\$0.00	\$0.00
ос	XMFG-0008-	340212	F		5-8:50 PM	
	05 C. CONNORS Meets: 5/2.		\$0.00	\$0.00	\$0.00	\$0.00

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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 Tuition Instructor Fee Crs. Fee Total XMFG-0008-340213 F 5-8:50 PM 06 C. CONNORS \$0.00 \$0.00 \$0.00 \$0.00 Meets: 5/9 XMFG-0008-340214 F 5-8:50 PM 07 C. CONNORS \$0.00 \$0.00 \$0.00 \$0.00 Meets: 5/16. XMFG-0008-OC 340215 F 5-8:50 PM 08 C CONNORS \$0.00 \$0.00 \$0.00 \$0.00 Meets: 5/23. oc XMFG-0008-340216 F 5-8:50 PM 09 C. CONNORS \$0.00 \$0.00 \$0.00 \$0.00 Meets: 5/30. ос XMFG-0008-340217 F 5-8:50 PM 10 \$0.00 C. CONNORS \$0.00 \$0.00 \$0.00 Meets: 6/6 XMFG-0008oc 340207 F 5-8:50 PM 11 C. CONNORS \$0.00 \$0.00 \$0.00 \$0.00 Meets: 6/13.

2025/SF

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	336657 MW		1-2:50 P	М
	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

OC LCT	MTH-020-01	336666	ттн		10-11:50) AM
	M. NICKAS		\$504.00	\$52.00	\$20.00	\$576.00
ONL LCT	MTH-020-02	336669				
	M. NICKAS		\$504.00	\$52.00	\$20.00	\$576.00
	Meets: 4/14-6/	/14.				

MTH- FUNDAMENTOS DE ARITMÉTICA II, 4 CREDITS 020ES

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

IAR LCT SPAÑOL	MTH-020ES- 01	340175	ттн	1-2:50 PM	
	A. ARISTIZAB Requerido: pe		\$504.00 I estudian	 \$20.00	\$576.00

MTH-050 TECHNICAL MATHEMATICS I, 4 CREDITS

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

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

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

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Course No	o Course Title, C	Course Title, Credits						
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total		
OC HYB LO	ст MTH-050-01	336671	MW		1-2:20 F	PM		
	M. CHASE		\$504.00	\$52.00	\$20.00	\$576.00		
OC HYB LO	CT MTH-050-02	336673	S TTH		10-11:20	D AM		
	M. CHASE		\$504.00	\$52.00	\$20.00	\$576.00		

MTH- MATEMÁTICAS TÉCNICAS I, 4 CREDITS

050ES

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

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

REM LCT	MTH-050ES-	336680	F		5-8:50 PM	
ESPAÑOL	01					
	A. ARISTIZAB	AL	\$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 LCT	MTH-060-01	336683	MW		1-2:50 PM	
	M. JOSI		\$504.00	\$52.00	\$20.00	\$576.00
HAR LCT	MTH-060-15	336694	TTH		9-10:50 AM	Λ
	A. ARISTIZAB	AL	\$504.00	\$52.00	\$20.00	\$576.00
HAR LCT	MTH-060-16	336695	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 LCT	MTH-065-01	336700	MW		1-2:50 PM	
	A. HALL		\$504.00	\$52.00	\$20.00	\$576.00
OC HYB LC	T MTH-065-10	336703	TBA			
	A. ARISTIZAB	AL	\$504.00	\$52.00	\$20.00	\$576.00
	This is an onli	ne/async	hronous o	class tha	t meets for i	in-
	person testing	dates o	nly.			
HAR LCT	MTH-065-15	336704	TTH		9-10:50 A	М
	A. ARISTIZAB	AL	\$504.00	\$52.00	\$20.00	\$576.00
HAR LCT	MTH-065-16	336705	TTH		6-7:50 PM	
	B. WEBBER		\$504.00	\$52.00	\$20.00	\$576.00

MTH-080 TECHNICAL MATHEMATICS II, 3 CREDITS

This course is the second in a sequence designed for career-technical students. The topics focus on critical thinking, problem solving, and mathematical communication using applications in arithmetic, algebra, geometry, and trigonometry.

Prerequisites: MTH-050 with a C or better

OC LCT	MTH-080-01	336707 MW		1-2:20	РМ
	T. BIEBER	\$378.00	\$39.00	\$20.00	\$437.00

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

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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, C	redits				
	Section No Instructor	Crs Reg.	Days (M,T,) Tuition	N,TH.F,S,SU) Fee	Time Crs. Fee	Total
OC HYB LCT	MTH-095-01	336709	MW		10-11:20 A	M
	J. HEVEL		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	MTH-095-02	336713	TTH		1-2:50 PM	
	A. HALL		\$504.00	\$52.00	\$20.00	\$576.00
OC HYB LCT	MTH-095-10	336718	TBA			
	B. HSIAO		\$504.00	\$52.00	\$20.00	\$576.00
	This is an onlir person testing	,		class that	t meets for in	1-
HAR LCT	MTH-095-15	336722	TTH		6-7:50 PM	
	TBA		\$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 and communicate what these numbers mean. Students will explore ways they interact with quantitative information in daily life, learn to effectively interpret and communicate quantitative information, and apply their own knowledge and experience to quantitative reasoning. Learning happens in small student groups, with technology, and through reflective writing. The class is project-based, meaning that students complete projects to demonstrate what they have learned.

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

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MTH-105Z MATH IN SOCIETY, 4 CREDITS

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

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

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

OC HYB LCT	MTH-105Z-01 33673	5 MW		10-11:20	AM
	M. YANNOTTA	\$504.00	\$52.00	\$20.00	\$576.00
OC HYB LCT	MTH-105Z-02 33674	о ттн		1-2:20 PM	
	S. VALDES-	\$504.00	\$52.00	\$20.00	\$576.00
	FERNANDEZ				
OC HYB LCT	MTH-105Z-03 33674	1 TTH		10-11:20	AM
	E. MEUSER	\$504.00	\$52.00	\$20.00	\$576.00
ONL LCT	MTH-105Z-10 33674	6			
	M. JOSI	\$504.00	\$52.00	\$20.00	\$576.00
ONL LCT	MTH-105Z-11 33674	8			
	M. YANNOTTA	\$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.

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

Course No	Course Title, Cr	edits						
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	(,TH.F,S,SU) Fee	Time Crs. Fee	Total		
	Prerequisites: MTH-095 with a C or better, or placement in MTH-111Z Recommended Prereguisites: WRD-098 or placement in WR-121Z							
OC LCT	MTH-111Z-01	336750) ТТН	•	1-2:50 PM	Л		
	E. MEUSER		\$504.00	\$52.00	\$20.00	\$576.00		
OC LCT	MTH-111Z-02	336754	MW		10-11:50	AM		
	S. PRUYN		\$504.00	\$52.00	\$20.00	\$576.00		
OC LCT	MTH-111Z-03	336755	5 TTH		10-11:50	AM		

	K. AMREIN		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	MTH-111Z-04	340181	TTH		6-7:50 PM	
	K. PHILLIPS		\$504.00	\$52.00	\$20.00	\$576.00
OC HYB LCT	· MTH-111Z-10 🗧	336761	TBA			
	C. WARNER		\$504.00	\$52.00	\$20.00	\$576.00
	This is an online	e/async	hronous o	class that	t meets for in	า-
	person testing of	dates or	ıly.			

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	336766	MW		10-11:50	AM
	F. CARTER		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	MTH-112Z-02	336772	TTH		1-2:50 P	М
	F. CARTER		\$504.00	\$52.00	\$20.00	\$576.00
OC HYB LCT	MTH-112Z-10	336774	TBA			
	M. HAUGEN		\$504.00	\$52.00	\$20.00	\$576.00
	This is an onling			class tha	t meets for	r in-
	person testing	uales 0	iny.			

MTH-212 FUNDAMENTALS OF ELEMENTARY MATH II, 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 modeling and working with integers, fractions, decimals, ratios, percents, and the real numbers. Introduces elementary algebra and statistics. MTH-212 and MTH-213 can be taken in any order.

Prerequisites: MTH-211

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

HAR LCT	MTH-212-15	336777	TTH		6-7:50 PM	
	S. VALDES-		\$504.00	\$52.00	\$20.00	\$576.00
	FERNANDEZ					

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, measurement, geometric mapping, probability, and counting techniques. MTH-212 and MTH-213 can be taken in any order.

Prerequisites: MTH-211

0

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

C LCT	MTH-213-01	336781 MW		10-11:50 AM	
	E KELLY	\$504.00	\$52.00	\$20.00	\$576.00

MTH-244 STATISTICS II, 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

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 LCT	MTH-244-01	336783 MW	10-11:50		0 AM
	T. BIEBER	\$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	336787 MW		8-9:50 AN) AM		
M. PRICE	\$630.00	\$65.00	\$20.00	\$715.00		
OC HYB LCT MTH-251-02	336791 TTH		1-2:50 PM	I		
K. PHILLIPS	\$630.00	\$65.00	\$20.00	\$715.00		

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.

Prerequisites: MTH-251 with a C or better

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

OC HYB LCT MTH-252-01	336796 TTH	10-11:50 AM		
M. PARTNOF	\$630.00	\$65.00	\$20.00	\$715.00
ос нув LCT MTH-252-02	336799 MW		3-4:50 PM	l
M. PARTNOF	\$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	336800 MW		3-4:50 P	М
S. PRUYN	\$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

ос нув LCT MTH-254-01	336802 MW		10-11:5	0 AM
A. HALL	\$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.

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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

Course No Course Title, Credits									
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total			
Prerequisi	ites: MTH-252	with a C	or better						
Recommended Prerequisites: WRD-098 or placement in WR-121Z									
OC LCT	MTH-261-01	336809	Э ТТН		10-11:50	AM			
	M. HAUGEN		\$504.00	\$52.00	\$20.00	\$576.00			

Medical Assistant

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

MA-100 **INTRODUCTION TO MEDICAL ASSISTING, 2 CREDITS**

Introduces the knowledge, skills, and attributes of a successful Medical Assistant while exploring the connection between patient experience and patient outcomes. Summarizes the clinical and employability skills required for providing clinical care while introducing content for career exploration.

ONL	MA-100-01	335869)			
	S. DAVENPO	RT	\$252.00	\$26.00	\$0.00	\$278.00

MA-166 PHLEBOTOMY II, 1 CREDIT

The focus of this course builds upon the foundational skills introduced in Phlebotomy I. The course will focus on advanced phlebotomy techniques such as blood specimen processing, techniques for syringe draws, collection into the correct evacuated tube (additive), specimen handling procedures, collections of newborn screen blood cultures, and advanced phlebotomy techniques.

Prerequisites: MA-156, MA-156L, MA-160, MA-162, MA-162L, MA-164, MA-164L, and MA-168

Corequisites: MA-166L, MA-174, MA-174L, MA-178, and MA-188 Required: Student must be enrolled in current Medical Assistant cohort

ONL	MA-166-01	335874	
	T. BOYD	\$126.00 \$13.00 \$250.00 \$389.00	

MA-166L PHLEBOTOMY II LAB, 1 CREDIT

The focus of this course is to demonstrate appropriate blood specimen procurement techniques using vacutainer, syringe, 'winged infusion'/butterfly with syringe and capillary puncture methods and associated safety techniques. Other specifics of the blood specimen testing requirements, such as collection into the correct evacuated tube (additive), specimen handling procedures, collections of newborn screen and collection documentation are also covered; while assuring a safe, confidential and professional environment for the patient, and as the phlebotomy technician.

Prerequisites: MA-156, MA-156L, MA-160, MA-162, MA-162L, MA-164, MA-164L, and MA-168

Corequisites: MA-166, MA-174, MA-174L, MA-178, and MA-188 Required: Student must be enrolled in current Medical Assistant cohort

HAR	MA-166L-01	335875 TTH		9-11:50) AM
	T. BOYD	\$126.00	\$13.00	\$94.00	\$233.00
	S. DAVENPOR	RT			

MA-174 **CLINICAL LAB PROCEDURES II, 1 CREDIT**

Designed to instill a basic understanding of simple, common laboratory terminology and procedures used in a general medical office laboratory to aid the physician in the diagnosis and treatment of disease. Laboratory safety, the prevention of blood born disease transmission and scope of practice will be emphasized. Continuation of the Clinical Laboratory Procedures series.

Course No	Course Title, Credits						
	Section No Instructor	Crs Reg.	Days (M,⊺, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total	
Prerequisites: MA-156, MA-156L, MA-160, MA-162, MA-162L, MA-164, MA-164L, and MA-168							
Corequisites: MA-166, MA-166L, MA-174L, MA-178, and MA-188 Required: Student must be enrolled in current Medical Assistant cohort							
ONL	MA-174-01 S. DAVENPO	335876 Drt	\$126.00	\$13.00	\$50.00	\$189.00	

2025/SF

MA-174L CLINICAL LAB PROCEDURES II LAB, 1 CREDIT

This lab course is designed to instill a basic understanding of common laboratory terminology and procedures used in a general medical office laboratory to aid the physician in the diagnosis and treatment of the disease. Laboratory safety, the prevention of bloodborne disease transmission and scope of practice will be emphasized. Continuation of the Clinical Laboratory Procedures series.

Prerequisites: MA-156, MA-156L, MA-160, MA-162, MA-162L, MA-164, MA-164L, and MA-168

Corequisites: MA-166, MA-166L, MA-174, MA-178, and MA-188 Required: Student must be enrolled in current Medical Assistant cohort

HAR	MA-174L-01	335877	′ ТТН		1-3:50 PM	
	S. DAVENPO	RT	\$126.00	\$13.00	\$0.00	\$139.00

MA-178 **MEDICAL ASSISTANT PRACTICUM, 9 CREDITS**

Under supervision within the ambulatory care setting, the student will apply both administrative and clinical knowledge and practices as attained within the medical assistant course curriculum.

Prerequisites: MA-156, MA-156L, MA-160, MA-162, MA-162L, MA-164, MA-164L, and MA-168

Corequisites: MA-166, MA-166L, MA-174, MA-174L, and MA-188

Required: Student must be enrolled in current Medical Assistant cohort

HAR HYB	MA-178-01	335878 W	9-10:50	АМ
		MTWTHF	8-5:00 P	M
	S. PARKER	\$1,134.0 \$117 0	7.00 \$50.00	\$1,301.00

MA-188 **CERTIFICATION EXAM REVIEW, 2 CREDITS**

This course is a medical assistant study prep course designed to prepare students for their national credentialing examination.

Prerequisites: MA-156, MA-156L, MA-160, MA-162, MA-162L, MA-164, MA-164L, and MA-168

Corequisites: MA-166, MA-166L, MA-174, MA-174L, and MA-178 Required: Student must be enrolled in current Medical Assistant cohort

ONL	MA-188-01	335879	1			
	S. DAVENPOR	RT	\$252.00	\$26.00	\$0.00	\$278.00

Medical Billing and Coding

MBC-116 INSURANCE BILLING AND REIMBURSEMENT II, 4 CREDITS

This course will continue to discuss health insurance and insurance billing, with a focus on healthcare reimbursement. Students will practice the principles of accounts receivable management from claim submission and follow-up to posting payments received. Students will apply payments to patient accounts and track claims for correct payment. Legal and regulatory issues as they pertain to healthcare reimbursement are reviewed as well as the differences in reimbursement methods. Practical application of Insurance billing and Medical coding skills learned throughout the program via examinations and practice scenarios. Required: Student Petition.

Prerequisites: MBC-115 with a C or better Required: Medical Billing and Coding students only

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

Course	Listing												2025/5P
Course No	Course Title, C	redits					Course No	Course Title, C	Credits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total
REM	MBC-116-01 C. GARNER Required: Stu		\$504.00	\$52.00	6-9:00 PM \$200.00	\$756.00	'big-band' a	ajors and music and small-group	o jazz styl	es. This	course is	taken ead	ch term in

MBC-125 ICD-10 CODING I, 2 CREDITS

This course will discuss fundamental medical coding skills for professional services, such as physicians, mid-level providers, etc., and how to apply them. The student will be introduced to the basics of diagnostic medical coding related to the International Classification of Diseases, Revision 10-Clinical Modification (ICD-10- CM) Code Set. Required: Student Petition.

Prerequisites: MBC-120 with a C or better

Corequisites: MBC-126

Required: Medical Billing and Coding students only

ONL MBC-125-01 335881 C GARNER \$252.00 \$26.00 \$200.00 \$478.00 Required: Student Petition.

MBC-126 CPT/HCPCS CODING I, 4 CREDITS

This course reviews fundamental medical coding skills for professional services, such as physicians, mid-level providers, etc. The student will explore the basics of procedural medical coding related to the Current Procedural Terminology (CPT) and Healthcare Common Procedure Coding System (HCPCS) Code Sets. Required: Student Petition.

Prerequisites: MBC-120 with a C or better

Corequisites: MBC-125

Required: Medical Billing and Coding students only

REM	MBC-126-01	335882 W		6-9:00 PM	
	C. GARNER	\$504.00	\$52.00	\$0.00	\$556.00
	Required: Stu	dent Petition.			

Music

MUP-102 WIND ENSEMBLE, 2 CREDITS

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	335895 TTH		3-4:50 PN	1
	L. CAMPBELL	\$252.00	\$26.00	\$0.00	\$278.00

MUP-104 JAZZ COMBO, 1 CREDIT

Instrumental performing group concentrating on rock, pop, and contemporary styles in the small to medium-sized group setting. No audition required. May be repeated for up to 8 credits. Recommended Prereauisites: MUP-105

OC LCT	MUP-104-01	335896 M		12-12:	50 PM		
	C DOGGETT	\$126.00	\$13.00	\$0.00	\$139.00		

MUP-105 JAZZ ENSEMBLE, 2 CREDITS

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	335897	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 335898 TTH		3-4:50 PM				
	K. HOLLINGSWORTH \$252.00	\$26.00	\$52.00	\$330.00			
	Vocal placement required for private lessons and vocal						
	ensembles. New students attend	d in Room	N114 on 4	/1 from			
	3-5 pm to demonstrate vocal rar	nge. Conta	act				
	kathleen.hollingsworth@clackan	nas.edu w	ith question	ns.			

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 335899 MW	3-4:50 PM				
	K. HOLLINGSWORTH \$252.00	\$26.00 \$52.00 \$330.00				
	Vocal placement required for private lessons and vocal					
	ensembles. New students atten	id in Room N114 on 4/1 from				
	3-5 pm to demonstrate vocal ra					
	kathleen.hollingsworth@clacka	mas.edu with questions.				

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	335902 MW		1-2:50 P	М
	K. DEITZ	\$252.00	\$26.00	\$50.00	\$328.00
	K. HOLLINGS	SWORTH			
	ensembles. N 3-5 pm to der	ent required for pri lew students attend nonstrate vocal rar ngsworth@clackan	d in Roor nge. Cont	n N114 on tact	1 4/1 from

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	335903 TH		1-2:50 PM	
	D. TUTMARK	\$126.00	\$13.00	\$85.00	\$224.00
	Guitar Ensemb	ole.			
OC LCT	MUP-158-02	335906 T			
	G. HARRIS	\$126.00	\$13.00	\$85.00	\$224.00
	Saxophone Qu	uartet.			

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

Course No	Course Title, Cr	Course Title, Credits									
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total					
OC	MUP-158-03	339996	ТВА								
	TBA		\$126.00	\$13.00	\$85.00	\$224.00					
	Brass Quintet.										
oc	MUP-158-04	339997	' TBA								
	TBA		\$126.00	\$13.00	\$85.00	\$224.00					
	Woodwind Qu	iintet.									
oc	MUP-158-05	339998	TBA								
	Y. MIYAMA		\$126.00	\$13.00	\$85.00	\$224.00					
	Piano Chambe	er Ensen	nble.								

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	335966 TTH		3-4:50 PM		
	L. CAMPBELL	\$252.00	\$26.00	\$0.00	\$278.00	

MUP-204 JAZZ COMBO, 1 CREDIT

Instrumental performing group concentrating on rock, pop, and contemporary styles in the small to medium-sized group setting. No audition required. May be repeated for up to 8 credits.

Prerequisites: MUP-104 (3 credits) Recommended Prerequisites: MUP-105

OC LCT	MUP-204-01	335967	M		12-12:50	PM					
	C. DOGGETT		\$126.00	\$13.00	\$0.00	\$139.00					

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 twoyear 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	335973 MW	3-4:50 PM		
	L. CAMPBELL	\$252.00	\$26.00	\$0.00	\$278.00

MUP-222 VOCAL ENSEMBLE, 2 CREDITS

Second year beginning vocal ensemble open to all students wishing to sing in a choral ensemble. Designed for non-majors and majors who need preparation for MUP-225. Performs various genres of vocal music. Emphasis on sight reading, basic vocal production and ensemble singing. May be repeated for up to 6 credits.

Prerequisites: MUP-122 (6 credits)

OC LCT MUP-222-01 335974 TTH 3-4:50 PM K. HOLLINGSWORTH \$252.00 \$26.00 \$52.00 \$330.00 Vocal placement required for private lessons and vocal ensembles. New students attend in Room N114 on 4/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.

MUP-225 ADVANCED VOCAL 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

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

2025/SF

Second year advanced vocal performance ensemble open by audition only. Open to majors and students with vocal experience, sight-reading ability. AVE will travel to perform, will record in the studio and a minimum three-term commitment is highly encouraged. May be repeated for up to 6 credits.

Prerequisites: MUP-125 (6 credits)

OC LCT	MUP-225-01 335976 MW	3-4:50 PM						
	K. HOLLINGSWORTH \$252.00	\$26.00 \$52.00 \$330.00						
	Vocal placement required for pl	rivate lessons and vocal						
	ensembles. New students attend in Room N114 on 4/1 from							
	3-5 pm to demonstrate vocal range. Contact							
	kathleen.hollingsworth@clacka	mas.edu with questions.						

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	336078			
	J. HEDBERG	\$378.00	\$39.00	\$10.00	\$427.00

MUS-104 APPLIED MUSIC FUNDAMENTALS, 3 CREDITS

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

Prerequisites: MUS-103

ос	MUS-104-01	340003 T		10-11:	20 AM
		TH		10-11:	20 AM
	K. HOLLINGS	WORTH \$378.00	\$39.00	\$0.00	\$417.00

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	336084			
	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	MUS-106-01	340190	F		6:30 -8:20	PM
			S		9-5:20 PM	
	D. BADSTUBN Meets: 4/25 &	\$126.00	\$13.00	\$99.00	\$238.00	

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	336090	Μ		6:30 -9:20	PM
	D. BADSTUBN	ER	\$378.00	\$39.00	\$99.00	\$516.00
oc	MUS-107-02	340189	М		1-3:50 PM	
	D. BADSTUBN	ER	\$378.00	\$39.00	\$99.00	\$516.00

MUS-108 INTRODUCTION TO AUDIO RECORDING II, 3 CREDITS

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

Course	Listing												2025/SP
Course No	Course Title, Cr	redits					Course No	Course Title, C	Credits				
	Section No Instructor	Crs Reg.	Days (M,T, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total

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	336094	Т		6:30 -9:20	PM
	D. BADSTUBN	IER	\$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	336100	Т		6:30 -9:2	0 PM
	D. BADSTUBN	IER	\$378.00	\$39.00	\$99.00	\$516.00

MUS-113 MUSIC THEORY I, 3 CREDITS

For non-majors and music majors. Presents the diatonic and chromatic structure of tonal music in theory from the common practice period through written exercises, compositions, listening, and analysis. This is the third term of a three-term sequence, which includes chord progressions, use of triad inversions, seventh chords, secondary harmony, tonicization, and modulation to closely related keys.

Prerequisites: MUS-112

Corequisites: MUS-113L, MUS-116, and MUS-129 for AS in music degree seekers. This requirement does not affect non-music majors or MPT Majors

OC LCT	MUS-113-01	336105 TTH		10-11:	20 AM
	R. OLASON	\$378.00	\$39.00	\$0.00	\$417.00

MUS-113L MUSIC NOTATION SOFTWARE I, 1 CREDIT

Continues an introduction to Finale (music notation software) on Macintosh computers.

OC LCT	MUS-113L-01 336107 M		10-11:50 AM		
	D. FLESCHNER	\$126.00	\$13.00	\$44.00	\$183.00

MUS-116 AURAL SKILLS I, 2 CREDITS

Third of three courses in a year-long sequence. Diatonic sight singing in major keys using solfège syllables and moveable 'do'. Melodic dictation and aural recognition of intervals, triads, and 7th chords.

Corequisites: MUS-113 Prerequisites: MUS-115

Trerequis										
OC LCT	MUS-116-01	336108 TTH		1-1:50 PM						
	R. OLASON	\$252.00	\$26.00	\$0.00	\$278.00					

MUS-129 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-113, MUS-113L, and MUS-116

Prerequisites: MUS-128

OC LCT	MUS-129-01	336109 TTH		2-2:50 I	PM
	R. OLASON	\$252.00	\$26.00	\$10.00	\$288.00

MUS-133 GROUP PIANO: PIANO FOR PLEASURE, 1 CREDIT

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile Training Center OFF: Other Off-Campus Location Distance Education Notification: ONL: Online Only REM: Remote (w/ scheduled meetings) HYB: In-person plus online work Third of three courses in a year-long sequence. Beginning classroom piano instruction for non-music majors. Includes reading, theory, technical exercises, and the opportunity to share your music with others. Beginning to intermediate level.

OC LCT	MUS-133-01	336111	TTH		9-9:50 AN	Λ
	T. STOJANO\	/IC	\$126.00	\$13.00	\$85.00	\$224.00

MUS-137 GROUP GUITAR I, 1 CREDIT

For beginning to intermediate players. Covers finger picking, lead guitar, rock and popular styles, music reading, and music theory. Students provide own instrument.

OC LCT	MUS-137-01	336114 TH	10-11:50 AM		
	D. TUTMARK	\$126.00	\$13.00	\$85.00	\$224.00

MUS-138 GROUP GUITAR II, 1 CREDIT

For intermediate to advanced players. Covers finger picking, lead guitar, rock and popular styles, music reading, and music theory. Students provide their own instrument.

Prerequisites: MUS-137

OC LCT	MUS-138-01	336116 TH		10-11:50 AM		
	D. TUTMARK	\$126.00	\$13.00	\$85.00	\$224.00	

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 LCT	MUS-142-01	336118	Т		1-3:50 PM	
	D. BADSTUB	NER	\$378.00	\$39.00	\$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	336119 TH	1-3:50 PM		
	A. HAAK	\$378.00	\$39.00	\$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 LCT	MUS-144-01	336121 TH	1-3:50 PM		
	A. HAAK	\$378.00	\$39.00	\$99.00	\$516.00

MUS-145 LOCATION AUDIO, LIVESTREAMING, AND ADVANCED AUDIO EDITING TECHNIQUES, 3 CREDITS

A look at onsite audio, both for recording as well as for broadcast, with an additional segment on more advanced audio editing techniques (can be taken in 1-credit segments; see MUS-150, MUS-151, and MUS-152).

OC LCT	MUS-145-01	336123	TH		6:30 -9:20	PM
	D. BADSTUBN	IER	\$378.00	\$39.00	\$99.00	\$516.00

MUS-148 LIVE SOUND ENGINEERING, 3 CREDITS

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

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

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	336124	W		6:30 -9:20	PM
	D. BADSTUB	VER	\$378.00	\$39.00	\$99.00	\$516.00

MUS-150 LOCATION, LIVE, AND DIALOGUE SOUND RECORDING, 1 CREDIT

Through hands-on and practical situational experience, students will be introduced to recording audio in a non-traditional studio environment. Concepts will include live concert documentation, field/location recording, and dialogue recording.

Prerequisites: MUS-107

OC	MUS-150-01	340010 TH		6:30 -9):20 PM
	M. BAIRD	\$126.00	\$13.00	\$0.00	\$139.00
	Meets: 5/1-5/1	5.			

MUS-151 VIDEO AND AUDIO FOR LIVESTREAM, 1 CREDIT

Utilizing Open Broadcast Software and professional audio equipment, students will learn to use and manipulate video and audio for live internet broadcasts.

OC	MUS-151-01	340011 TH		6:30 -9	9:20 PM
	B. WAGER	\$126.00	\$13.00	\$0.00	\$139.00
	Meets: 4/10-4	/24.			

MUS-152 ADVANCED AUDIO EDITING TECHNIQUES, 1 CREDIT

Additional advanced training in Pro Tools audio software techniques. The student will learn techniques in audio editing using warp audio, Beat Detective, and other plug-ins not covered in the MUS-107 through MUS-109 series.

Prerequisites: MUS-107 or MUS-143 or equivalent

00	MUS-152-01	340012	TH		6:30 -9:20	PM
	D. BADSTUBN	IER	\$126.00	\$13.00	\$0.00	\$139.00
	Meets: 5/22-6/	5.				

MUS-161 SONGWRITING II, 2 CREDITS

This course is a continuation of MUS-160. Further explores the elements of songwriting, focuses on creating a digital composition portfolio and public performance.

OC LCT	MUS-161-01	336125 T	1-2:50 PM		
	L. POLLARD	\$252.00	\$26.00	\$50.00	\$328.00

MUS-170 INTRODUCTION TO SCORING MUSIC FOR MEDIA, 2 CREDITS

Introduction to the analysis, writing, and production of basic film, video, and/or video game music scores and spotting music cues. **Prerequisites:** MUS-102 or MUS-112 or MUS-143

•						
OC LCT	MUS-170-01	336127	w W		10-11:5	50 AM
	D. FLESCHN	ER	\$252.00	\$26.00	\$0.00	\$278.00

MUS-188 PERFORMANCE ATTENDANCE, 0 CREDIT

The student is expected to attend a minimum of five live performances approved by the Music Department for each term registered.

OC	MUS-188-01 3400	04 T		12-12:50	РМ
	L. CAMPBELL	\$0.00	\$0.00	\$0.00	\$0.00
	Find free on-campus			tudents at	

MUS-189 PERFORMANCE & REPERTOIRE, 1 CREDIT

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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, Cr	edits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	N,TH.F,S,SU) Fee	Time Crs. Fee	Total

2025/SF

A performance forum required for all students studying a classical instrument or voice at the MUP-171 to MUP-191 and MUP-271 to MUP-291 levels. Through weekly performance and critique, each student will develop proper stage manners and prepare for the end of term performance jury, and will also study the work to be performed through academic research. Students will have an opportunity to work with a professional accompanist. May be repeated for up to 6 credits. Required: Student Petition.

OC LCT	MUS-189-01	336129 W		11-11:50	АМ
	J. ISRAELS	\$126.00	\$13.00	\$0.00	\$139.00
	B. MICHAEL				
OC LCT	MUS-189-02	336131 W		12-12:50 l	PM
OC LCT	MUS-189-02 J. ISRAELS	336131 W \$126.00	\$13.00		PM \$139.00

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	336133 MW		10-11:50	AM
	K. DEITZ	\$504.00	\$52.00	\$0.00	\$556.00
ONL	MUS-206-02	336135			
	J. HEDBERG	\$504.00	\$52.00	\$0.00	\$556.00

MUS-213 MUSIC THEORY II, 3 CREDITS

For non-majors and music majors. Continuation of the study of harmony, period styles after the 18th century through written exercises, compositions, listening, and analysis. This is the third term of a three-term sequence, which includes the 19th and 20th century idioms such as Romanticism, impressionism, post-Romanticism, and serialism.

Prerequisites: MUS-212

corequisites. MOS-210 and MOS-220								
ос	MUS-213-01	336137 MW		10-11:20	AM			
	R. OLASON	\$378.00	\$39.00	\$269.00	\$686.00			

MUS-216 KEYBOARD SKILLS II, 2 CREDITS

Third course in the sequential second year of advanced keyboard applications covering the materials of diatonic and chromatic music.

Corequisites: MUS-213 Prerequisites: MUS-215

OC LCT	MUS-216-01	336138 MW		2-2:50 PN	1
	R. OLASON	\$252.00	\$26.00	\$85.00	\$363.00

MUS-220 MPT SEMINAR III, 1 CREDIT

Third in 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-219

ос	MUS-220-01 336139 M	12-12:50 PM
	K. HOLLINGSWORTH \$126.00	\$13.00 \$0.00 \$139.00
	Field Trip TBA.	

MUS-226 AURAL SKILLS II, 2 CREDITS

Third 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.

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

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

	Instructor	Tuition	Fee	Crs. Fee	Total
	sites: MUS-213 sites: MUS-225				
OC LCT	MUS-226-01 R. OLASON	336140 MW \$252.00	\$26.00	1-1:50 PM \$85.00	\$363.00

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	MUS-247-01	336143 W		3-5:50	PM
	B. ROSE	\$378.00	\$39.00	\$0.00	\$417.00

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

Cooperative work experience. Provides students with on-the-job work experience in the field of music. Required: Student Petition. Corequisites: CWE-281

Prerequisites: MUS-107,	MUS-140, and MUS-142

OC LCT	MUS-280-01 336144
	C. DOGGETT \$756.00 \$78.00 \$144.00 \$978.00V
	Required: Student Petition. Corequisite: Take the following
	CWE-281-06.
oc	MUS-280-02 336145
	G. HARRIS \$756.00 \$78.00 \$144.00 \$978.00V
	Required: Student Petition. Corequisite: Take the following
	CWE-281-06.

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

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 LCT	XMUP-0001-	336174 M			6:30 -9:20 PM	
	01					
	I CLINE		\$0.00	\$0.00	\$0.00	\$0.00

Music: Individual Lessons - Non-Music Majors

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

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

OC LCT	MUP-100-01 335883 TBA
	K. POLITZER \$126.00 \$13.00 \$225.00 \$364.00
	Required: Student Petition. Jazz Piano Lessons.
OC LCT	MUP-100-02 335884 TBA
	Y. MIYAMA \$126.00 \$13.00 \$225.00 \$364.00
	Required: Student Petition. Piano Lessons.
OC LCT	MUP-100-03 335885 TBA
	D. FLESCHNER \$126.00 \$13.00 \$225.00 \$364.00
	Required: Student Petition. Rock, Blues, and Pop Piano
	Lessons.

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 OC LCT MUP-100-04 335886 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. New students attend in Room N114 on 4/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions. OCICT MUP-100-05 335887 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. New students attend in Room N114 on 4/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions. OC LCT MUP-100-06 335888 TBA C. AVERILL \$126.00 \$13.00 \$225.00 \$364.00 Required: Student Petition. Cello Lessons. MUP-100-07 335889 TBA OC LCT K. DEITZ \$126.00 \$13.00 \$225.00 \$364.00 Required: Student Petition. Bass Lessons. MUP-100-08 335890 TBA OC LCT D. TUTMARK \$126.00 \$13.00 \$225.00 \$364.00 Required: Student Petition. Guitar Lessons. OCICT MUP-100-09 335891 TBA A. CSIKOS \$126.00 \$13.00 \$225.00 \$364.00 Required: Student Petition. Guitar Lessons. OC LCT MUP-100-10 335892 TBA G. HARRIS \$126.00 \$13.00 \$225.00 \$364.00 Required: Student Petition. Saxophone Lessons. OC LCT MUP-100-11 335893 TBA J. KLAUSE \$126.00 \$13.00 \$225.00 \$364.00 Required: Student Petition. Trumpet Lessons. MUP-100-12 335894 TBA OC LCT C. DOGGETT \$126.00 \$13.00 \$225.00 \$364.00 Required: Student Petition. Percussion & Drum Set Lessons. oc MUP-100-13 339976 TBA K. GIFFORD \$126.00 \$13.00 \$225.00 \$364.00 Required: Student Petition. Flute Lessons. MUP-100-14 339977 TBA oc T. STOJANOVIC \$126.00 \$13.00 \$225.00 \$364.00 Required: Student Petition. Piano Lessons. ос MUP-100-15 339978 TBA \$126.00 \$13.00 \$225.00 C. LEE \$364.00 Required: Student Petition. Oboe Lessons. ос MUP-100-16 339979 TBA **B. GARDINER** \$126.00 \$13.00 \$225.00 \$364.00 Required: Student Petition. Percussion Lessons. oc MUP-100-17 340008 TBA L. CAMPBELL \$126.00 \$13.00 \$225.00 \$364.00 Required: Student Petition. Trombone Lessons. 00 MUP-100-21 339980 TBA K. POLITZER \$252.00 \$26.00 \$450.00 \$728.00 Required: Student Petition. Jazz Piano Lessons. oc MUP-100-22 339981 TBA Y. MIYAMA \$252.00 \$26.00 \$450.00 \$728.00 Required: Student Petition. Piano Lessons. MUP-100-23 339982 TBA oc D. FLESCHNER \$252.00 \$26.00 \$450.00 \$728.00 Required: Student Petition.Rock, Blues, and Pop Piano Lessons. MUP-100-24 oc 339983 TBA J. ISRAELS \$252.00 \$26.00 \$450.00 \$728.00

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

|--|

Total

Time

Crs. Fee

O aurora Nia	Occurrent Title O					
Course No	,		D		T	
	Section No Instructor	Crs Reg.	Days (M,T,W Tuition	Fee	Time Crs. Fee	Total
	Required: Stu	dent Pet	ition Voic		ns. Vocal r	
	required for p					
	students atter					
	demonstrate \					
	kathleen.hollir				with quest	ions.
ос	MUP-100-25	339984	I TBA			
	B. MICHAEL		\$252.00	\$26.00	\$450.00	\$728.00
	Required: Stu	dent Pet	ition. Voic	e Lessor	ns. Vocal p	placement
	required for pi					
	students atter				om 3-5 pm	to
	demonstrate v					
	kathleen.hollir	0		nas.edu	with quest	ions.
OC	MUP-100-26	339985				
	C. AVERILL				\$450.00	\$728.00
	Required: Stu			o Lesson	IS.	
OC	MUP-100-27	339986				
	K. DEITZ			•	\$450.00	\$728.00
	Required: Stu			s Lesson	IS.	
OC	MUP-100-28	339987		\$00.00	\$450.00	A700.00
	D. TUTMARK			•	\$450.00	\$728.00
	Required: Stu			ar Lesso	ns.	
OC	MUP-100-29	339988		¢00.00	¢450.00	¢700.00
	A. CSIKOS Required: Stu	dont Dot			\$450.00	\$728.00
ос		339989		Guitar L	Lessons.	
00	MUP-100-30 G. HARRIS	339985		¢06.00	¢150.00	¢700.00
	Required: Stu	dont Dot			\$450.00	\$728.00
ос	MUP-100-31	339990			_6550115.	
00	J. KLAUSE	339990		¢26.00	\$450.00	\$728.00
	Required: Stu	dont Pot				φ120.00
oc	MUP-100-32	339991			30113.	
00	C. DOGGETT			\$26.00	\$450.00	\$728.00
	Required: Stu			•		
oc	MUP-100-33	339992			Diamoot	20000110.
	K. GIFFORD	000001		\$26.00	\$450.00	\$728.00
	Required: Stu	dent Pet				¢720.00
ос	MUP-100-34	339993				
	T. STOJANO			\$26.00	\$450.00	\$728.00
	Required: Stu					*
ос	MUP-100-35	339994				
	C. LEE			\$26.00	\$450.00	\$728.00
	Required: Stu	dent Pet				*
ос	MUP-100-36	339995				
	B. GARDINEF			\$26.00	\$450.00	\$728.00
	Required: Stu					¢. 20.00
oc	MUP-100-37	340009				
	L. CAMPBELL			\$13.00	\$225.00	\$364.00
	Required: Stu			•		
	-					
Music:	Individual	l eser	ns - V	ear 1		

Music: Individual Lessons - Year 1

College-level private lessons required for music majors and available to qualified non-majors. End-of-term juried performance mandatory. May be repeated for up to 10 credits. Required: Student Petition.

MUP-171 INDIVIDUAL LESSONS: PIANO, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189

OC LCT MUP-171-01 335907 TBA

Y. MIYAMA \$252.00 \$26.00 \$450.00 \$728.00 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

OC	MUP-171-02 339999 TBA
	T. STOJANOVIC \$252.00 \$26.00 \$450.00 \$728.00 Required: Student Petition.
	J INDIVIDUAL LESSONS: JAZZ PIANO, 2 CREDITS : College-level performance ability
OC LCT	MUP-171J-01 335908 TBA K. POLITZER \$252.00 \$26.00 \$450.00 \$728.00 Required: Student Petition. \$1000000000000000000000000000000000000
	R INDIVIDUAL LESSONS: ROCK, BLUES, POP PIANO, 2 CREDITS
•	College-level performance ability
OC LCT	MUP-171R-01 335909 TBA D. FLESCHNER \$252.00 \$26.00 \$450.00 \$728.00 Required: Student Petition.
Required	INDIVIDUAL LESSONS: ORGAN, 2 CREDITS : College-level performance ability ites: MUS-189
OC LCT	MUP-172-01 335911 TBA J. HOLLAND \$252.00 \$26.00 \$450.00 \$728.00 Required: Student Petition.
	INDIVIDUAL LESSONS: VOICE, 2 CREDITS : College-level performance ability ites: MUS-189
OC LCT	MUP-174-01 335913 TBA J. ISRAELS \$252.00 \$26.00 \$450.00 \$728.00 Required: Student Petition. Voice Lessons. Vocal placement required for private lessons and vocal ensembles. New students attend in Room N114 on 4/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.
OC LCT	MUP-174-02 335915 TBA B. MICHAEL \$252.00 \$26.00 \$450.00 \$728.00 Required: Student Petition. Voice Lessons. Vocal placement required for private lessons and vocal ensembles. New students attend in Room N114 on 4/1 from 3-5 pm to

Crs Reg. Days (M,T,W,TH.F,S,SU)

Fee

Tuition

MUP-174J INDIVIDUAL LESSONS: JAZZ VOICE, 2 CREDITS Required: College-level performance ability

kathleen.hollingsworth@clackamas.edu with questions.

demonstrate vocal range. Contact

Corequisites: MUS-189

Course No Course Title, Credits Section No Crs R

Instructor

OC LCT MUP-174J-01 335916 TBA J. ISRAELS \$252.00 \$26.00 \$450.00 \$728.00 Required: Student Petition. Voice Lessons. Vocal placement required for private lessons and vocal ensembles. New students attend in Room N114 on 4/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions. OC LCT MUP-174J-02 335918 TBA B. MICHAEL \$252.00 \$26.00 \$450.00 \$728.00 Required: Student Petition. Voice Lessons. Vocal placement required for private lessons and vocal ensembles. New students attend in Room N114 on 4/1 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

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

Course I	Listing												2025/5
Course No	Course Title, 0	Credits					Course No	Course Title,	Credits				
	Section No Instructor	Crs Reg.	Days (M,T,W, Tuition		Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	То
	College-level							College-level es: MUS-189	performan	ce ability			
oc	MUP-174R-0 J. ISRAELS Required: St required for p students atte	udent Pet private les	\$252.00 ition. Voice sons and	Lesson	s. Vocal pl sembles. N	lew	OC LCT	MUP-179-01 TBA Required: St		\$252.00	\$26.00	\$450.00	\$728
ос	demonstrate kathleen.holl MUP-174R-0	vocal ran ingsworth 2 337941	ge. Contao @clackam TBA	ct as.edu v	vith questio	ons.	•	INDIVIDUAL College-level es: MUS-189				EDITS	
	B. MICHAEL Required: St required for p students atte demonstrate	udent Pet orivate les end in Roc	sons and om N114 o	Lesson vocal ens n 4/1 fror	s. Vocal pl sembles. N	lew	OC LCT	MUP-180-01 D. TUTMARI Required: St	<	\$252.00	\$26.00	\$450.00	\$728
	kathleen.holl				vith questio	ons.		INDIVIDUAL College-level				, 2 CREDI	ГS
Required:	INDIVIDUAL College-level es: MUS-189			I, 2 CRE	DITS		OC LCT	MUP-180J-0 J. RADSLIFF Required: St	1 335935	TBA \$252.00	\$26.00	\$450.00	\$728
OC LCT	MUP-175-01 TBA Required: St		\$252.00	\$26.00	\$450.00	\$728.00	MUP-180R	INDIVIDUAL	LESSON	IS: ROCK	K, BLUES	6, POP GU	ITAR,
Required:	INDIVIDUAL College-level es: MUS-189	LESSON	IS: VIOLA	, 2 CREI	DITS		Required: OC LCT	College-level MUP-180R-0 A. CSIKOS Required: St	1 335936	TBA \$252.00	\$26.00	\$450.00	\$728
OC LCT	MUP-176-01 H. OSEAS Required: St		\$252.00	\$26.00	\$450.00	\$728.00		INDIVIDUAL College-level es: MUS-189				DITS	
Required:	INDIVIDUAL College-level es: MUS-189), 2 CRE	DITS		OC LCT	MUP-181-01 S. TIEDEMA Required: St	NN	\$252.00	\$26.00	\$450.00	\$728
OC LCT	MUP-177-01 C. AVERILL Required: St	335923 udent Pet	\$252.00	\$26.00	\$450.00	\$728.00		INDIVIDUAL College-level			,	2 CREDIT	5
Required:	INDIVIDUAL College-level es: MUS-189			2 CRED	ITS		OC LCT	MUP-181J-0 G. HARRIS Required: St		\$252.00	\$26.00	\$450.00	\$72
OC LCT	MUP-178-01 K. DEITZ Required: St		\$252.00	\$26.00	\$450.00	\$728.00	Required:	INDIVIDUAL College-level es: MUS-189			,	DITS	
	INDIVIDUAL College-level			BASS, 2	CREDITS		OC LCT	MUP-182-01 C. LEE Required: St	335941 udent Pet	\$252.00	\$26.00	\$450.00	\$72
OC LCT	MUP-178J-0 K. DEITZ Required: St	udent Pet	\$252.00 ition.	\$26.00	\$450.00	\$728.00	Required:	INDIVIDUAL College-level es: MUS-189				CREDITS	
OC LCT	MUP-178J-02 T. WAKELIN Required: St	G	\$252.00	\$26.00	\$450.00	\$728.00	OC LCT	MUP-183-01 L. DE MART Required: St	INO	\$252.00	\$26.00	\$450.00	\$72
	INDIVIDUAL			BLUES	, POP BA	SS, 2	MUP-183J	INDIVIDUAL			CLARIN	ET, 2 CRE	DITS
•	College-level						-	College-level					
OC	MUP-178R-0 K. DEITZ Required: St		\$252.00	\$26.00	\$450.00	\$728.00	OC LCT	MUP-183J-0 TBA Required: St		\$252.00	\$26.00	\$450.00	\$72
MUP-179	INDIVIDUAL	LESSON	IS: HARP,	2 CRED	ITS		MUP-184	INDIVIDUAL	LESSON	IS: SAXC	PHONE,	2 CREDIT	S
OC: Orego	cations: nony Community n City Campus onville Training		ONL: REM:	Online On Remote (\		d meetings)			t		DL: Enseña w-Cost Tex	ado en espa (t	ñol

\$728.00

\$728.00

\$728.00

\$728.00

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\$728.00

Course No	Course Title, Cr Section No		Days (M,T,W	,TH.F,S,SU)	Time	
	Instructor			Fee	Crs. Fee	Total
•	College-level pe es: MUS-189	erforman	ce ability			
OC LCT	MUP-184-01 G. HARRIS Required: Stud		\$252.00	\$26.00	\$450.00	\$728.00
	INDIVIDUAL I College-level pe			SAXOPH	IONE, 2 CF	REDITS
OC LCT	MUP-184J-01 G. HARRIS Required: Stud		\$252.00	\$26.00	\$450.00	\$728.00
	INDIVIDUAL I College-level pe es: MUS-189			00N, 2 (CREDITS	
OC LCT	MUP-185-01 N. BUETTI Required: Stud	335948 dent Peti	\$252.00	\$26.00	\$450.00	\$728.00
Required:	INDIVIDUAL I College-level pe es: MUS-189			PET, 2 (REDITS	
OC LCT	MUP-186-01 J. KLAUSE Required: Stud		\$252.00	\$26.00	\$450.00	\$728.00
	INDIVIDUAL I College-level pe			TRUMPE	ET, 2 CRED	ITS
OC LCT	MUP-186J-01 Q. WALKER Required: Stud		\$252.00	\$26.00	\$450.00	\$728.00
•	INDIVIDUAL I College-level pe es: MUS-189			CH HOR	N, 2 CRED	ITS
OC LCT	MUP-187-01 R. OLASON Required: Stud		\$252.00	\$26.00	\$450.00	\$728.00
-	INDIVIDUAL I College-level pe es: MUS-189			BONE, 2	2 CREDITS	
OC LCT	MUP-188-01 L. CAMPBELL Required: Stud		\$252.00	\$26.00	\$450.00	\$728.00
oc	MUP-188-02 C. RENEAU Required: Stud	340000	TBA \$252.00	\$26.00	\$450.00	\$728.00
	INDIVIDUAL I College-level pe			TROMB	ONE, 2 CRI	EDITS
OC LCT	MUP-188J-01 L. CAMPBELL Required: Stud		\$252.00	\$26.00	\$450.00	\$728.00
MUP-189 Bequired:	INDIVIDUAL I College-level pe			ONIUM,	2 CREDITS	;

	include to to to	, and a		0.000	
OC LCT	MUP-189-01 TBA	335958 TBA \$252.00	\$26.00	\$450.00	\$728.00
	Required: Stu	Ident Petition.			
		LESSONS: TUBA	, 2 CRE	DITS	
	: College-level p ites: MUS-189	erformance ability			
OC LCT		335960 TBA			
	ТВА		\$26.00	\$450.00	\$728.00
	Required: Stu	ident Petition.			
		LESSONS: PERC	USSION	I, 2 CREDI	TS
•	0 1	erformance ability			
OC LCT	ites: MUS-189 MUP-191-01	335962 TBA			
00 101	B. GARDINE		\$26.00	\$450.00	\$728.00
	Required: Stu	Ident Petition.			
MUP-191	J INDIVIDUAL	LESSONS: JAZZ	PERCU	SSION. 2 (CREDITS
		erformance ability		,	
OC LCT		335964 TBA			
	C. DOGGETT Required: Stu	sent Petition.	\$26.00	\$450.00	\$728.00
MUP-191		LESSONS: ROCK	, BLUE	S, POP DH	UMSET, 2
Required	: College-level p	erformance ability			
ос		337943 TBA			
	C. DOGGETT	\$252.00 sident Petition.	\$26.00	\$450.00	\$728.00
	·				
		LESSONS: AUDI	O TECH,	2 CREDIT	'S
•	• •	erformance ability			
oc	MUP-1921-01 M. BAIRD	337944 TBA \$252.00	\$26.00	\$450.00	\$728.00
		Ident Petition.			,
oc	MUP-192T-02 D. BADSTUB	2 337945 TBA	¢06.00	\$450.00	\$728.00
		ident Petition.	φ20.0U	φ430.00	φ <i>1</i> ∠0.00

Crs Reg. Days (M,T,W,TH.F,S,SU) Time

Fee

Crs. Fee

Tuition

2025/SF

Total

oc MUP-192T-03 337946 TBA R. SOMMERS \$252.00 \$26.00 \$450.00 \$728.00 Required: Student Petition.

Music: Individual Lessons - Year 2

Second-year private lessons required for music majors and available to qualified non-majors. End-of-term juried performance mandatory. May be repeated for up to 10 credits.

MUP-271 INDIVIDUAL LESSONS: PIANO, 2 CREDITS

Prerequisites: MUP-171 (6 credits) Corequisites: MUS-189

Course No Course Title, Credits Section No Crs R

Instructor

Required: Sophomore-level performance ability

OC LCT	MUP-271-01	335991	ТВА			
	Y. MIYAMA		\$252.00	\$26.00	\$450.00	\$728.00
oc	MUP-271-02	340001	TBA			
	T. STOJANOV	IC	\$252.00	\$26.00	\$450.00	\$728.00

MUP-271J INDIVIDUAL LESSONS: JAZZ PIANO, 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

Course		alite					(and the				025/SP
Course No	Course Title, Cre Section No C Instructor		Days (M,T, Tuition	N,TH.F,S,SU) Fee	Time Crs. Fee	Total	Course No	 Course Title, C Section No Instructor 		Days (M,T, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total
	i tes: MUP-171J (Sophomore-leve		,	oility			OC LCT	MUP-276-01 H. OSEAS	336013		\$26.00	\$450.00	\$728.0
OC LCT	MUP-271J-01 K. POLITZER		ТВА		\$450.00	\$728.00		INDIVIDUAL ites: MUP-177			0, 2 CRE	EDITS	
MUP-271F	R INDIVIDUAL LI CREDITS	ESSON	IS: ROC	K, BLUES	S, POP PIA	NO, 2	•	tes: MUS-189 Sophomore-lev	vel perforr	nance at	oility		
•	ites: MUP-171R Sophomore-leve	•	,	oility			OC LCT	MUP-277-01 C. AVERILL	336016		\$26.00	\$450.00	\$728.0
OC LCT OC	MUP-271R-01 D. FLESCHNEF MUP-271R-02 K. HOLLINGSW	२ 340002	\$252.00 2 TBA		\$450.00 \$450.00	\$728.00 \$728.00	Prerequis Corequisi	INDIVIDUAL ites: MUP-178 (tes: MUS-189 Sophomore-lev	(6 credits))	-	DITS	
Prerequisi	INDIVIDUAL LI ites: MUP-172 (6 tes: MUS-189			AN, 2 CR	EDITS		OC LCT	MUP-278-01 K. DEITZ	336019	ТВА		\$450.00	\$728.0
	Sophomore-leve	l perfor 335998	ТВА		¢450.00	¢700.00	Prerequis	J INDIVIDUAL ites: MUP-178J Sophomore-lev	(6 credit	s)		CREDITS	
	J. HOLLAND		IS: VOIC		\$450.00	\$728.00	OC LCT	MUP-278J-01 K. DEITZ	336021	TBA \$252.00		\$450.00	\$728.0
Corequisit	i tes: MUP-174 (6 t es: MUS-189 Sophomore-leve			aility			OC LCT	MUP-278J-02 T. WAKELING			\$26.00	\$450.00	\$728.0
OC LCT	•	336000	TBA		\$450.00	\$728.00		R INDIVIDUAL CREDITS			K, BLUES	S, POP BA	SS, 2
OC LCT		336003	ТВА		\$450.00	\$728.00	•	ites: MUP-178F Sophomore-lev		,	oility		
Prerequisi	I INDIVIDUAL L it es: MUP-174J (VOICE,	2 CREDITS	5	oc	MUP-278R-01 K. DEITZ		\$252.00		\$450.00	\$728.0
•	tes: MUS-189 Sophomore-leve	l perfor	mance a	oility			Prerequis	INDIVIDUAL ites: MUP-179			, 2 CREI	5115	
OC LCT	MUP-274J-01 J. ISRAELS	336006		\$26.00	\$450.00	\$728.00		tes: MUS-189 Sophomore-lev	el perforr	nance at	oility		
OC LCT	MUP-274J-02 B. MICHAEL	336009		\$26.00	\$450.00	\$728.00	OC LCT	MUP-279-01 TBA	336027		\$26.00	\$450.00	\$728.0
	R INDIVIDUAL LI CREDITS ites: MUP-174R			K, BLUES	6, POP VOI	CE, 2	Prerequis	INDIVIDUAL ites: MUP-180 tes: MUS-189			AR, 2 CR	EDITS	
Required:	Sophomore-leve	l perfor	mance a	oility			Required:	Sophomore-lev	el perforr	mance at	oility		
oc	MUP-274R-01 J. ISRAELS MUP-274R-02		\$252.00	\$26.00	\$450.00	\$728.00	OC LCT	MUP-280-01 D. TUTMARK	336028		\$26.00	\$450.00	\$728.0
	B. MICHAEL		\$252.00		\$450.00	\$728.00		J INDIVIDUAL ites: MUP-180J			GUITAR	, 2 CREDIT	ſS
Prerequisi	INDIVIDUAL LI ites: MUP-175 (6 tes: MUS-189			IN, 2 CRE	EDITS		Required: OC LCT	Sophomore-lev MUP-280J-01	•	ТВА		•	•
	Sophomore-leve	l perfor	mance a	oility				J. RADSLIFF		\$252.00	\$26.00	\$450.00	\$728.0
OC LCT	MUP-275-01 TBA	336010		\$26.00	\$450.00	\$728.00		R INDIVIDUAL CREDITS			K, BLUES	6, POP GU	ITAR, 2
				A, 2 CRE	DITS			ites: MUP-180F Sophomore-lev	•	,	oility		
Corequisit	i tes: MUP-176 (6 t es: MUS-189 Sophomore-leve			oilitv			OC LCT	MUP-280R-01 A. CSIKOS			\$26.00	\$450.00	\$728.0
							MUP-281	INDIVIDUAL	LESSON	S: FLUT	E, 2 CRE	DITS	
Campus Lo HAR: Harn	cations: nony Community Ca	ampus		ice Educa : Online O	i tion Notifica nly	ation:		g Translations: arranged: contact			DL: Enseñ w-Cost Te:	ado en espa xt	ñol

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

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

000100110	Course Title, Co				Time	
	Section No Instructor	Urs Heg.	Days (M,T,W Tuition	/,TH.F,S,SU) Fee	Time Crs. Fee	Total
•	ites: MUP-181 tes: MUS-189	(6 credits	s)			
•	Sophomore-lev	el perfor	mance ab	oility		
DC LCT	MUP-281-01 S. TIEDEMAN			\$26.00	\$450.00	\$728.00
Prerequis	J INDIVIDUAL ites: MUP-181J Sophomore-lev	l (6 credit	ts)		2 CREDITS	3
OC LCT	MUP-281J-01 G. HARRIS	336038		\$26.00	\$450.00	\$728.00
rerequis orequisi	INDIVIDUAL ites: MUP-182 tes: MUS-189 Sophomore-lev	(6 credits	5)		DITS	
OC LCT	MUP-282-01 C. LEE	336039		\$26.00	\$450.00	\$728.00
orequisi	INDIVIDUAL ites: MUP-183 tes: MUS-189 Sophomore-lev	(6 credits	5)	ŗ	CREDITS	
DC LCT	MUP-283-01	336042	2 TBA		\$450.00	\$728.00
					EL 2 CRE	
Prerequis	J INDIVIDUAL ites: MUP-183J Sophomore-lev MUP-283J-01	l (6 credit /el perfor	ts) mance ab TBA	oility		
Prerequis Required: OC LCT AUP-284 Prerequis Corequisi	ites: MUP-183J Sophomore-lev MUP-283J-01 TBA	I (6 credit vel perfor 336044 LESSON (6 credits	ts) mance ab I TBA \$252.00 IS: SAXO S)	s26.00	\$450.00	\$728.00
rerequis equired DC LCT IUP-284 rerequis orequisi equired	ites: MUP-183J Sophomore-lev MUP-283J-01 TBA INDIVIDUAL ites: MUP-184 tes: MUS-189	I (6 credit vel perfor 336044 LESSON (6 credits	ts) mance ab TBA \$252.00 IS: SAXO S) mance ab 7 TBA	sility \$26.00 PHONE	\$450.00	\$728.00
Verequis Required: DC LCT AUP-284 Verequis Required: DC LCT AUP-284 Verequis	ites: MUP-183J Sophomore-lev MUP-283J-01 TBA INDIVIDUAL ites: MUP-184 tes: MUS-189 Sophomore-lev MUP-284-01	I (6 credii vel perfor 336044 LESSON (6 credits vel perfor 336047 LESSON I (6 credii	ts) mance ab \$252.00 IS: SAXO IS: SAXO mance ab 7 TBA \$252.00 IS: JAZZ ts)	ility \$26.00 PHONE ility \$26.00 SAXOPI	\$450.00 , 2 CREDIT \$450.00	\$728.00 S \$728.00
Verequise AUP-284 Verequise Corequise Corequise Corequise Corequise VUP-284 Verequise Required	ites: MUP-183J Sophomore-lev MUP-283J-01 TBA INDIVIDUAL ites: MUP-184 tes: MUS-189 Sophomore-lev MUP-284-01 G. HARRIS J INDIVIDUAL ites: MUP-184J	I (6 credii 236044 LESSON (6 credits 236047 236047 LESSON I (6 credii 26 credii 26 credii 26 credii 27 credii 28 credii 29 credii 20 credii	ts) mance ab \$252.00 IS: SAXO) mance ab \$252.00 IS: JAZZ (ts) mance ab 0 TBA	ility \$26.00 PHONE ility \$26.00 SAXOPI ility	\$450.00 , 2 CREDIT \$450.00	\$728.00 S \$728.00
Prerequis Required: OC LCT MUP-284 Prerequis Corequisi Required: OC LCT MUP-284 Prerequis Required: OC LCT MUP-285 Prerequis Corequisi	ites: MUP-183J Sophomore-lev MUP-283J-01 TBA INDIVIDUAL ites: MUP-184 tes: MUS-189 Sophomore-lev MUP-284-01 G. HARRIS J INDIVIDUAL ites: MUP-184J Sophomore-lev MUP-284J-01 G. HARRIS	I (6 credit rel perfor 336044 LESSON (6 credits rel perfor 336047 LESSON I (6 credit 336049 LESSON (6 credits	ts) mance ab \$252.00 IS: SAXO IS: SAXO TBA \$252.00 IS: JAZZ ts) mance ab TBA \$252.00 IS: BASS s)	ility \$26.00 PHONE ility \$26.00 SAXOPI ility \$26.00 OON, 2	\$450.00 , 2 CREDIT \$450.00 HONE, 2 CI \$450.00	\$728.00 S \$728.00 REDITS
AUP-284 AUP-284 AUP-284 Aurerequisi Corequisi Corequisi Corequisi Corequisi Corequisi Corequisi Corequisi Corequisi Corequisi	ites: MUP-183J Sophomore-lev MUP-283J-01 TBA INDIVIDUAL ites: MUP-184 tes: MUS-189 Sophomore-lev MUP-284-01 G. HARRIS J INDIVIDUAL ites: MUP-184J Sophomore-lev MUP-284J-01 G. HARRIS INDIVIDUAL ites: MUP-185 tes: MUS-189	I (6 credit rel perfor 336044 LESSON (6 credits rel perfor 336047 LESSON I (6 credit 336049 LESSON (6 credits	ts) mance ab \$252.00 IS: SAXO IS: SAXO IS: SAXO IS: JAZZ ts) mance ab \$252.00 IS: BASS () IS: BASS () IS: BASS () IS: BASS	ility \$26.00 PHONE ility \$26.00 SAXOPI ility \$26.00 OON, 2 ility	\$450.00 , 2 CREDIT \$450.00 HONE, 2 CI \$450.00	\$728.00 S \$728.00 REDITS
Prerequis Required: OC LCT MUP-284 Prerequis Corequisi Required: OC LCT MUP-284 Prerequis Required: OC LCT MUP-285 Prerequis Corequisi Required: OC LCT MUP-286 Prerequis Corequisi	ites: MUP-183J Sophomore-lev MUP-283J-01 TBA INDIVIDUAL ites: MUP-184 tes: MUP-184 tes: MUS-189 Sophomore-lev MUP-284-01 G. HARRIS J INDIVIDUAL ites: MUP-184J Sophomore-lev MUP-284J-01 G. HARRIS INDIVIDUAL ites: MUP-185 tes: MUS-189 Sophomore-lev MUP-285-01 N. BUETTI	I (6 credit el perfor 336044 LESSON (6 credits /el perfor 336047 LESSON I (6 credit 236049 LESSON (6 credits /el perfor 336051 LESSON (6 credits	ts) mance ab \$252.00 IS: SAXO IS: SAXO TBA \$252.00 IS: JAZZ ts) mance ab \$252.00 IS: BASS () TBA \$252.00 IS: BASS () TBA \$252.00 IS: TRUM	ility \$26.00 PHONE ility \$26.00 SAXOPI ility \$26.00 OON, 2 ility \$26.00 IPET, 2 (\$450.00 , 2 CREDIT \$450.00 HONE, 2 CI \$450.00 CREDITS \$450.00	\$728.00 S \$728.00 REDITS \$728.00

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

						2025/SP
Course No	Course Title, C	redits				
	Section No Instructor		Days (M,T,\ Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total
•	tes: MUP-186J	•	,			
OC LCT	Sophomore-leve	•		ility		
OCLO	MUP-286J-01 Q. WALKER	336057		\$26.00	\$450.00	\$728.00
	INDIVIDUAL L			CH HOR	N, 2 CREI	DITS
	t es: MUP-187 (6 es: MUS-189	5 credits)			
	Sophomore-leve	el perfori	mance ab	ility		
OC LCT	MUP-287-01 R. OLASON	336060	ТВА		\$450.00	\$728.00
MUP-288	INDIVIDUAL L	.ESSON	S: TROM	BONE. 2		5
	tes: MUP-188 (6			0, .		-
	es: MUS-189					
OC LCT	Sophomore-leve	•		llity		
OCLO	MUP-288-01 L. CAMPBELL	336061		\$26.00	\$450.00	\$728.00
ос	MUP-288-02	340005				
	C. RENEAU		\$252.00	\$26.00	\$450.00	\$728.00
	INDIVIDUAL L			TROMB	ONE, 2 CF	REDITS
	t es: MUP-188J Sophomore-leve	•	,	:li+./		
OC LCT	MUP-288J-01	•		iiity		
	L. CAMPBELL			\$26.00	\$450.00	\$728.00
	INDIVIDUAL L			ONIUM,	2 CREDIT	S
•	t es: MUP-189 (6 es: MUS-189	5 credits)			
	Sophomore-leve	el perfori	mance ab	ility		
OC LCT	MUP-289-01 TBA	336066		\$26.00	\$450.00	\$728.00
MUP-290	INDIVIDUAL L	.ESSON	S: TUBA	. 2 CREE	DITS	
	t es: MUP-190 (6			,		
	es: MUS-189					
	Sophomore-leve	•		llity		
OC LCT	MUP-290-01 TBA	336069		\$26.00	\$450.00	\$728.00
				USSION	, 2 CREDI	TS
	t es: MUP-191 (6 es: MUS-189	o credits)			
	Sophomore-leve	el perfori	mance ab	ility		
OC LCT	MUP-291-01	336071	тва			
	B. GARDINER		\$252.00	\$26.00	\$450.00	\$728.00
	INDIVIDUAL L tes: MUP-191J			PERCUS	SSION, 2 C	REDITS
Required:	Sophomore-leve	el perfori	mance ab	ility		
OC LCT	MUP-291J-01 C. DOGGETT	336074		\$26.00	\$450.00	\$728.00
MUP-291R	INDIVIDUAL L	ESSON	S: ROCK	, BLUES	6, POP DR	UMSET, 2
•	tes: MUP-191R	•	,			
-	Sophomore-leve			ility		
oc	MUP-291R-01 C. DOGGETT			\$26.00	\$450.00	\$728.00
Other Coding					ado en espa	iñol
TBA: To be a department fin VAR: Variable			LCT: Lov	v-Cost Tex	ĸt	

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

MUP-292T INDIVIDUAL LESSONS: AUDIO TECH, 2 CREDITS Prerequisites: MUP-192T (6 credits) Required: Sophomore-level performance ability

nequireu.	Sophomore-leve	penon	nance ab	muy		
ос	MUP-292T-01	337951	ТВА			
	M. BAIRD		\$252.00	\$26.00	\$450.00	\$728.00
oc	MUP-292T-02	337952	TBA			
	D. BADSTUBN	ER	\$252.00	\$26.00	\$450.00	\$728.00
oc	MUP-292T-03	337953	TBA			
	R. SOMMERS		\$252.00	\$26.00	\$450.00	\$728.00

Nursing

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

Admission into the nursing program is by special application only. Acceptance to the nursing program allows for coenrollment 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-112 FOUNDATIONS OF NURSING IN ACUTE CARE I, 2 CREDITS

This course introduces the learner to assessment and common interventions (including relevant technical procedures) for care of patients across the lifespan who require acute care, including normal childbirth. Disease/illness trajectories and their translation into clinical practice guidelines and/or standard procedures are considered in relation to their impact on providing culturally sensitive, patient-centered care. Includes classroom and clinical learning experiences.

Required: Acceptance into the CCC nursing program Prerequisites: NRS-111, NRS-111C, NRS 231, and NRS-232 Corequisites: NRS-112C and NRS-233

HAR	NRS-112-01	336146 M		РМ	
	R. TARTER	\$252.00	\$26.00	\$300.00	\$578.00
	Restricted: Ad	mitted CCC nursir	ng studer	nts only.	

NRS-112C FOUNDATIONS OF NURSING IN ACUTE CARE I CLINICAL, 4 CREDITS

This course introduces the learner to assessment and common interventions (including relevant technical procedures) for care of patients across the lifespan who require acute care, including natural childbirth. Disease/illness trajectories and their translation into clinical practice guidelines and/or standard procedures are considered in relation to their impact on providing culturally sensitive, client-centered care. Includes classroom and clinical learning experiences.

Course No	Course Title, Credits	Course Title, Credits							
	Section No Crs I Instructor	Reg. Days (M,T, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total				
Prerequisi	Acceptance into the tes: NRS-111, NRS- es: NRS-112 and N	111C, NRS 2							
HAR	NRS-112C-01 336	149 T T W WTH THF \$504.00	\$52.00	9-10:50 9-11:50 9-12:50 9-5:30 P 12-4:00 \$450.00	AM PM M				
	R. TARTER Clinical sites, times	, and days m	ay chang	ge as need	ded.				
HAR	NRS-112C-02 336	T W WTH THF	\$52.00	9-11:50 11-12:50 9-12:50 9-5:30 P 12-4:00 \$450.00) PM PM M				
HAR	R. TARTER Clinical sites, times NRS-112C-03 336 C. BURT	152 T T W WTH THF		9-11:50 1:30 -3:2 9-12:50 9-5:30 P 12-4:00	AM 20 PM PM M				
	R. TARTER	<i>400</i> 1.00	<i>402.00</i>	÷.00.00	÷.,000.00				

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Clinical sites, times, and days may change as needed.

NRS-224 INTEGRATIVE PRACTICUM, 2 CREDITS

This course is designed to formalize the clinical judgments, knowledge and skills necessary in safe, registered nurse practice. Faculty/Clinical Teaching Associate/Student Triad Model provides a context that allows the student to experience the nursing role in a selected setting, balancing demands of professional nursing and lifelong learner. Analysis and reflection throughout the clinical experience provide the student with evaluative criteria against which they can judge their own performance and develop a practice framework. Includes seminar, self-directed study and clinical experience.

Required: Acceptance into the CCC nursing program Prerequisites: NRS-221 and NRS-221C

Corequisites: NRS-224C

HAR	NRS-224-01	336154	MTW M		8-4:30 PM 8:30 -12:20 PM	
	G. CONNELL K. RICHARDS			\$26.00	\$390.00	\$668.00

NRS-224C INTEGRATIVE PRACTICUM CLINICAL, 7 CREDITS

This course is designed to formalize the clinical judgments, knowledge and skills necessary in safe, registered nurse practice. Faculty/Clinical Teaching Associate/Student Triad Model provides a context that allows the student to experience the nursing work world in a selected setting, balancing demands of job and lifelong learner. Analysis and reflection throughout the clinical experience provide the student with evaluative criteria against which they can judge their own performance and develop a practice framework. Includes clinical debrief, self-directed study and clinical experience.

Required: Acceptance into the CCC nursing program Prerequisites: NRS-221 and NRS-221C Corequisites: NRS-224

HAR	NRS-224C-01	336155 M			8:30 -10:30 AM	
	G. CONNELL K. RICHARDS		\$882.00	\$91.00	\$275.00	\$1,248.00

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

Course No	Course Title, Cr	edits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
HAR	NRS-224C-02	336156	М		8:30 -10	:30 AM
	G. CONNELL K. RICHARDS	5	\$882.00	\$91.00	\$275.00	\$1,248.00
HAR	NRS-224C-03	336157	M		8:30 -10	:30 AM
	G. CONNELL K. RICHARDS	5	\$882.00	\$91.00	\$275.00	\$1,248.00
HAR	NRS-224C-04	340019	M		8:30 -10	:30 AM
	G. CONNELL K. RICHARDS	;	\$882.00	\$91.00	\$275.00	\$1,248.00
HAR	NRS-224C-05	340020	M		8:30 -10	:30 AM
	G. CONNELL K. RICHARDS	5	\$882.00	\$91.00	\$275.00	\$1,248.00

NRS-233 PATHOPHYSIOLOGICAL PROCESSES II, 3 CREDITS

This sequel to NRS-232 continues to explore pathophysiological processes that contribute to disease states across the lifespan and human responses to those processes. Students will learn to make selected clinical decisions in the context of nursing regarding using current, reliable sources of pathophysiology information, selecting and interpreting focused nursing assessments based on knowledge of pathophysiological processes, teaching persons from diverse populations regarding pathophysiological processes, and communicating with other health professionals regarding pathophysiological processes. The course addresses additional pathophysiological processes not contained in NRS-232.

Required: Acceptance into the CCC nursing program Prerequisites: NRS-111, NRS-111C, NRS-231, and NRS-232 Coreguisites: NRS-112 and NRS-112C

HAR	NRS-233-01	336158 M		12:30 -2:	20 PM
	G. CONNELL	\$378.00	\$39.00	\$260.00	\$677.00
	Restricted: Ad	mitted CCC nursir	ng studer	nts only.	

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.

Prerequisites: MTH-050 or placement in MTH-060 or higher. WRD-098 or placement in WR-121Z

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

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 HYB NUR-100-01 336161 TW 1-5:30 PM S. ELLSBERG \$819.00 \$84.50 \$300.00 \$1,203.50 K. STIPE Required: Student Petition. Attend mandatory orientation meeting. Orientation details will be posted to the Nursing Assistant webpage. HAR HYB NUR-100-02 340021 TW 8-12:30 PM M. BAKER \$819.00 \$84.50 \$300.00 \$1,203.50 S. ELLSBERG

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K. STIPE Required: Student Petition.

NUR-100C NURSING ASSISTANT I CLINICAL, 0 CREDIT

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

Corequisites: NUR-100

HAR	NUR-100C-01 336	163 TBA			
	M. BAKER	\$0.00	\$0.00	\$0.00	\$0.00
	K. STIPE				
	Required: Student	Petition. De	tails rega	rding clinica	al
	schedule will be gi	ven during th	ne manda	tory orienta	ation as
	well as the first few	/ weeks of th	e course		
HAR	NUR-100C-02 340	022 TBA			
	M. BAKER	\$0.00	\$0.00	\$0.00	\$0.00
	K. STIPE				
	Required: Student	Petition.			
HAR	NUR-100C-03 340	023 TBA			
	J. LAFRANCE	\$0.00	\$0.00	\$0.00	\$0.00
	K. STIPE				
	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 33807	4 TH		10-11:50	АМ
	K. SEVERSON	\$504.00	\$52.00	\$0.00	\$556.00
	No textbook required.				
ONL LCT	PHL-101-02 33681	2			
	K. HADDIX	\$504.00	\$52.00	\$0.00	\$556.00
	No textbook required.				

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	336814				
	M. BAILEY		\$504.00	\$52.00	\$0.00	\$556.00
	No textbook ree	quired.				

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

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

Course No	lo Course Title, Credits						
	Section No Instructor	Crs Reg.	Days (M,T,W,TH Tuition Fee		me rs. Fee To	otal	
ONL LCT	PHL-103-01 K. HADDIX	336818	3 \$504.00 \$	52.00 \$	0.00 \$55	6.00	

PHL-205 MORAL ISSUES, 4 CREDITS

Examines contemporary moral issues from a selection of different philosophical perspectives. Provides some historical context as background in order to understand our current moment. **Recommended Prerequisites:** WRD-098 or placement in WR-1217

2	necommended Frerequisites.	110-030 0	placem		212
	ос нув LCT PHL-205-01 33806	9 W		1-2:50 PM	
	M. BAILEY	\$504.00	\$52.00	\$0.00	\$556.00
	No textbook required.				

Phlebotomy

PHB-110 FUNDAMENTALS OF PHLEBOTOMY, 5 CREDITS

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

Corequisites: PHB-112 and PHB-115

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

ONL	PHB-110-01	336168				
	E. ZUNIGA	\$	630.00	\$65.00	\$0.00	\$695.00
	Required: Stu	dent Petitio	on.			

PHB-112 PHLEBOTOMY TECHNIQUES, 2 CREDITS

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

Corequisites: PHB-110 and PHB-115

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

HAR	PHB-112-01	336170	WF		9-12:00 PM	Λ
	T. BOYD		\$252.00	\$26.00	\$100.00	\$378.00
	E. ZUNIGA					
	Required: Stud	dent Peti	tion.			
HAR	PHB-112-02	336171	WF		1-4:00 PM	
	J. ALLISON		\$252.00	\$26.00	\$100.00	\$378.00
	E. ZUNIGA					
	Required: Stud	dent Peti	tion.			

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

Course No Course Title, Credits Section No Crs Reg. Days (M,T,W,TH.F,S,SU) Time Crs. Fee Instructor Tuition Fee Total ONL PHB-115-01 336173 E. ZUNIGA \$126.00 \$13.00 \$100.00 \$239.00

2025/SF

Physical Education

Required: Student Petition.

	PHYSICAL ACTIVITY CLASSES, 1 CREDIT ended: Current physical examination before enrolling
ос	BASKETBALL/POWER II, 1 CREDIT PE-185-082 339947 MW 5:30 -7:20 PM C. WEGNER \$126.00 \$13.00 \$30.00 \$169.00 Required: Student Petition. \$120.00 \$13.00 \$100.00 \$100.00
ONL	CROSS TRAINING VI, 1 CREDIT PE-185-017 339949 B. STAMME \$126.00 \$13.00 \$30.00 \$169.00
OFF HYB	PICKLEBALL I, 1 CREDIT PE-185-001 340025 TTH 1-2:50 PM K. WOODS \$126.00 \$13.00 \$30.00 \$169.00
ос	SOCCER CONDITIONING II, 1 CREDIT PE-185-037 340026 TTH 5:30 -6:50 PM TBA \$126.00 \$13.00 \$30.00 \$169.00 Required: Student Petition. \$1200 \$1200 \$1200 \$1200
ос	VOLLEYBALL CONDITIONING II, 1 CREDIT PE-185-071 339948 T 6-8:50 PM A. ITAMI \$126.00 \$13.00 \$30.00 \$169.00 Required: Student Petition. \$1200 \$1200 \$1200 \$1200
ONL	WALK, JOG, FITNESS III, 1 CREDIT PE-185-002 336719 K. MCHONE \$126.00 \$13.00 \$30.00 \$169.00
ONL	WEIGHT TRAINING III, 1 CREDIT PE-185-040 336725 C. WEGNER \$126.00 \$13.00 \$30.00 \$169.00
ос	WEIGHT TRAINING III, 1 CREDIT PE-185-074 336734 TTH 10-11:20 AM C. WEGNER \$126.00 \$13.00 \$30.00 \$169.00
ONL	YOGA III, 1 CREDIT PE-185-043 336728 E. HANCOCK \$126.00 \$13.00 \$30.00 \$169.00
PE-240	STRENGTH & CONDITIONING THEORY & TECHNIQUES

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.

ос нув	PE-240-01	336742 W TBA		11-11:5	50 AM
	K. MCHONE	\$378.00	\$39.00	\$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	336744			
	K. MCHONE	\$378.00	\$39.00	\$0.00	\$417.00

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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

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

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 336747 T. NELSON \$756.00 \$78.00 \$45.00 \$879.00V Required: Student Petition. Review the registration process and complete the online application to the program at http://www.clackamas.edu/CWE-Students.aspx prior to registering. Corequisite: Take the following CWE-281-06.

PE-294 PROFESSIONAL ACTIVITIES, 1 CREDIT

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	BASEBALL SKILLS & STRATEGIES, 1 CREDIT PE-294-01 339946 MW 3-4:50 PM J. HOPPEL \$126.00 \$13.00 \$30.00 \$169.00 Required: Student Petition. \$126.00 \$13.00 \$169.00
oc	SOFTBALL SKILLS & STRATEGIES, 1 CREDIT PE-294-02 339945 MW 1-2:50 PM J. BUEL \$126.00 \$13.00 \$30.00 \$169.00 Required: Student Petition. \$1200 \$1200 \$169.00
oc	TRACK SKILLS & STRATEGIES, 1 CREDIT PE-294-03 339944 MWF 2-2:50 PM K. MCHONE \$126.00 \$13.00 \$30.00 \$169.00 Required: Student Petition. \$1200 \$1300 \$169.00

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	336751	
	C. SHARON	\$504.00 \$52.00 \$25.00	\$581.00
	Corequisite: T	ake the following PH-121L-40.	

PH-121L ASTRONOMY LAB, 0 CREDIT

Lab course for PH-121L

Corequisites: PH-121

ONL

PH-121L-40	336752			
C. SHARON	\$0.00	\$0.00	\$0.00	\$0.00
Corequisite: T	ake 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.

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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
Prerequisit	es: PH-121 or (GS-107			
Corequisites: PH-122L					

ONL LCT	PH-122-40	336753	
	C. SHARON	\$504.00 \$52.00 \$20.00	\$576.00
	Corequisite: T	ake the following PH-122L-40.	

PH-122L GENERAL ASTRONOMY LAB, 0 CREDIT

Lab course for PH-122 Corequisites: PH-122

ONL	PH-122L-40	336756			
	C. SHARON	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: T	ake the following	PH-122-	40.	

PH-123 GENERAL ASTRONOMY, 4 CREDITS

A lab course including star clusters, the properties of our own galaxy, the other galaxies and cosmology.

Prerequisites: PH-122

Corequisites: PH-123L

ONL	PH-123-40	336757	
	C. SHARON	\$504.00 \$52.00 \$20.00	\$576.00
	Corequisite: Ta	ake the following PH-123L-40.	

PH-123L GENERAL ASTRONOMY LAB, 0 CREDIT

Lab course for PH-123

Corequisites:	PH-123

ONL	PH-123L-40 33	6759			
	C. SHARON	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take	the following	PH-123-	40.	

PH-150 PREPARATORY PHYSICS, 3 CREDITS

This course is intended for students who have not completed high-school physics, but are intending to take either PH-201 or PH-211. Students will develop reasoning skills, and learn problem-solving strategies, measurement units, graph interpretation, and basic physics definitions needed for their General Physics courses.

Prerequisite or Corequisite: MTH-112Z or placement in MTH-251

OC LCT	PH-150-01	336760 TTH	H 10-1		1:20 AM	
	ТВА	\$378.00	\$39.00	\$20.00	\$437.00	

PH-203 GENERAL PHYSICS, 5 CREDITS

A lab course covering thermodynamics, fluids, waves, geometrical optics, wave optics, and modern physics.

Prerequisites: PH-202

Corequisites: PH-203L and PH-203S

oc PH-203-01 336763 MW 11-12:20 PM T. STUFFLEBEAM \$630.00 \$65.00 \$50.00 \$745.00 Corequisite: Take 2 of the following PH-203L-01, PH-203L-02, PH-203L-03, PH-203S-01.

PH-203L GENERAL PHYSICS LAB, 0 CREDIT

Lab course for PH-203

Corequ	Isites: PH-203 and PH-20	35			
ос	PH-203L-01 33676	5 T		9-11:50 A	M
	T. STUFFLEBEAM	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take the	following	PH-2035	S-01, PH-20	3-01.
oc	PH-203L-02 33676	7 TH		12-2:50 P	M
	T. STUFFLEBEAM	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take the	following	PH-2035	S-01, PH-20	3-01.

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

Course No	Course Title, C	redits					Course No	Course Title,	Credits				
	Section No Instructor	Crs Reg.	Days (M,T, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
oc	PH-203L-03 TBA	336768	F \$0.00	\$0.00	11-1:50 PM \$0.00	\$0.00	PS-200	INTRODUCT		POLITICA		ICE, 4 CF	REDITS
		Take the f			\$0.00 6-01, PH-203-0		expands or	ntroduction to n basic politica	l concepts	and then	nes, expl	ores polit	tical theory
PH-203S	GENERAL P	HYSICS S	SEMINA	R, 0 CRE	DIT			gy, and consid nt and how bot					ns and
	ourse for PH-20						-	nded Prerequ		-	•		R-121Z
•	tes: PH-203 an						ОС НҮВ	PS-200-01	336820	т		1-2:50 F	PM
OC	PH-203S-01 T. STUFFLEE		\$0.00	\$0.00	12-12:50 PN \$0.00 203L-01, PH-2	\$0.00	PS-201	J. HITE	COVERN	\$504.00			\$556.0
	02, PH-203L			wing i ii-2	2002-01,111-2	-00L-		AMERICAN the founding p					
PH-213							as the Con	stitution, the s	eparation	of powers	, and the	three brain	anches of
	SENERAL P se covering the				6, 5 CREDITS			nt, political part the media in					
	ve optics, and r			us, wave	s, geometrica			wer of the exe					
•	tes: PH-212							eaucracy, gov		policies,	and the o	civil liberti	es and
	tes: PH-213L a					_	-	of American ci nded Prerequ		3D-090 or	placem	ent in WF	RD-098
OC	PH-213-01 TBA	336771		\$65.00	11-12:20 PM \$50.00	n 6745.00	ONL	PS-201-01	339956		placen		
	Corequisite:		the follow	wing PH-2	213S-01, PH-2 02, PH-213L-	213S-		J. HITE		\$504.00			\$556.0
oc	PH-213-02	336773			1-2:20 PM		PS-280	POLITICAL		,		• •	•
			the follow		\$50.00 213S-01, PH-2 02, PH-213L-		experience	e work experie in the field of in the CWE-281					
PH-213L	GENERAL P	HYSICS	WITH CA	ALCULUS	SLAB, 0 CRE	DIT	oc .	PS-280-01	336822				
Lab course	e for PH-213							J. HITE D. LOUGEE		\$756.00	\$78.00	\$45.00	\$879.00
Corequisit	t es: PH-213 an	d PH-213	S					Required: St		tion. Core	quisite:	Take the	following
oc	PH-213L-01 T. STUFFLEE		\$0.00	\$0.00	9-11:50 AM \$0.00	\$0.00	Psycho	CWE-281-06	i.				
	02, PH-213S				213S-01, PH-2 	2135-		logy					
oc	PH-213L-02	336778		* * **	12-2:50 PM	* • ••	PSY-101	HUMAN REI	ATIONS,	3 CREDI	TS		
	T. STUFFLEE Corequisite: 02, PH-213S	Take 2 of			\$0.00 213S-01, PH-2	\$0.00 213S-	maintain su	n developing s uccessful pers	onal and p	profession	al relatio	nships. A	pplies
ос	PH-213L-03	336779	F		11-1:50 PM			cal principles t in social, work					
	TBA Corequisite:	Take 2 of	\$0.00	\$0.00	\$0.00 213S-01, PH-2	\$0.00	overview o	f basic psycho	logy princ	iples in ac	ldition to	skill deve	
	02, PH-213S					100-		wing areas: de ation, developi					icts. and
PH-213S					SEMINAR, (`	managing	stress. Include	s individu	al and gro	up activi	ties, lectu	
FII-2133	CREDIT	11303	with CA	ALCOLUS	SEMINAN, C	,		s with an empl nded Prerequ		•	•		8D-098
	ourse for PH-2 ⁻ t es: PH-213 an		3L				OC	PSY-101-01 J. VELEZ	336826			10-11:20	
oc .	PH-213S-01	336780	тн		3-3:50 PM		ONL LCT	PSY-101-02	336830		ψ00.00	ψ0.00	ψ+17.0
					\$0.00 213-01, PH-21	\$0.00 3-02,		M. MALLATT Online textbo	ok provid				\$417.0
OC	PH-213L-01, PH-213S-02			213L-03.	4-4:50 PM		ONL LCT	PSY-101-03 M. MALLATT	336833	\$378.00	\$30.00	\$0.00	\$417.0
	ТВА		\$0.00	\$0.00	\$0.00	\$0.00		Online textbo					ΨΤΓ.Ο
					213-01, PH-21	3-02,	OC LCT	PSY-101-04	339957		#00.00	10-12:50	
	PH-213L-01, PH-213S-03	213L- 336784		213L-03.	2-2:50 PM			M. MALLATT Online textbo		\$378.00 ed first da		•	\$417.0
ос	TBA	000704	\$0.00	\$0.00	\$0.00	\$0.00				sa mot ua	, 01 0103	0.	
ос	1 D/ (213-01, PH-21			INTRODUCT					

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, C	redits				
	Section No Instructor	Crs Reg.	Days (M,T,) Tuition	W,TH.F,S,SU) 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: 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	336836 MW	8-9:5	0 AM
	J. KISSLER	\$504.00	\$52.00 \$0.00	\$556.00
	Online textboo	ok provided first d	ay of class.	
ONL	PSY-201Z-02	336838		
	S. TOBIN	\$504.00	\$52.00 \$0.00	\$556.00
ONL	PSY-201Z-03	338070		
	S. TOBIN	\$504.00	\$52.00 \$0.00	\$556.00

PSY-202Z INTRODUCTION TO PSYCHOLOGY II, 4 CREDITS

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

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

OC LCT	PSY-202Z-01	336839 MW		10-11:50	AM
	J. KISSLER	\$504.00	\$52.00	\$0.00	\$556.00
	Online textboo	ok provided first da	ay of clas	s.	
ONL LCT	PSY-202Z-02	336842			
	I. MANCINELL	_l- \$504.00	\$52.00	\$0.00	\$556.00
	FRANCONI				
	Online textboo	ok provided first da	ay of clas	S.	

PSY-215 INTRODUCTION TO DEVELOPMENTAL PSYCHOLOGY, 4 CREDITS

Research and theories regarding the development of the individual from conception to death, including physical, social and cognitive changes.

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

recommended recould to concequisite.	Recommended Prerec	uisite or Cored	quisite: FYE-101
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OC LCT	PSY-215-01	336844	ттн		8-9:50 A	M
	J. KISSLER		\$504.00	\$52.00	\$0.00	\$556.00
	Online textboo	ok provid	ed first da	y of clas	S.	
OC LCT	PSY-215-02	336847	' TTH		10-11:50	D AM
	J. KISSLER		\$504.00	\$52.00	\$0.00	\$556.00
	Online textboo	ok provid	ed first da	y of clas	S.	
ONL LCT	PSY-215-03	336848	6			
	I. MANCINELL	_ -	\$504.00	\$52.00	\$0.00	\$556.00
	FRANCONI					
	Online textboo	ok provid	ed first da	y of clas	s.	
ONL LCT	PSY-215-04	336849)			
	T. THOMAS		\$504.00	\$52.00	\$0.00	\$556.00
	Online textboo	ok provid	ed first da	y of clas	s.	
ONL	PSY-215-05	339958	6			
	J. BENNETT		\$504.00	\$52.00	\$0.00	\$556.00
	Meets: 5/5-6/6	S.				
PSY-219	INTRODUCTI	ON TO F	PSYCHOL	OGICAI		DERS. 4

PSY-219 INTRODUCTION TO PSYCHOLOGICAL DISORDERS, 4 CREDITS

Introduction to clinical psychology, including common mental health concerns and approaches to treatment.

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

OC HYB	PSY-219-01	336851 W		1-2:50 PM	
	S. KISER	\$504.00	\$52.00	\$0.00	\$556.00
ONL	PSY-219-02	336855			
	S. KISER	\$504.00	\$52.00	\$0.00	\$556.00

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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, Cr	edits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
ONL	PSY-219-03	336856				
	K. KRASKA		\$504.00	\$52.00	\$100.79	\$656.79
	Online textboo	k include	n secti	on fees		

2025/SF

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

ос	PSY-280-01	336860
	J. KISSLER	\$756.00 \$78.00 \$45.00 \$879.00
	Required: Stu CWE-281-06	udent Petition. Corequisite: Take the following

Religion

R-101 JUDAISM AND FOUNDATIONS OF RELIGION, 4 CREDITS

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

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

ONL	R-101-01	338071			
	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

ONL	R-210-01	336869			
	J. SHELTON	\$504.00	\$52.00	\$0.00	\$556.00

R-212 HISTORY OF THE NEW TESTAMENT, 4 CREDITS

An introduction to the New Testament that includes the first century social, political, and religious influences on the New Testament texts, the life of Jesus, the Pauline letters, and other early Christian writings. **Recommended Prerequisites:** WRD-090 or placement in WRD-098

			P		
HAR	R-212-15	336872 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

R-280-01	336874			
D. LOUGEE	\$756.00	\$78.00	\$45.00	\$879.00V
J. SHELTON				f = 11 =
CWE-281-06.	cent Petition. Core	equisite:	Take the	following
	D. LOUGEE J. SHELTON Required: Stud	D. LOUGEE \$756.00 J. SHELTON Required: Student Petition. Core	D. LOUGEE \$756.00 \$78.00 J. SHELTON Required: Student Petition. Corequisite:	D. LOUGEE \$756.00 \$78.00 \$45.00 J. SHELTON Required: Student Petition. Corequisite: Take the

Renewable Energy Technology

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

RET-209 RENEWABLE ENERGY I: ENERGY EFFICIENCY, 3 CREDITS

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

Course I	_isting												2025/SP
Course No	Course Title, Cre	edits					Course No	Course Title, C	redits				
	Section No Instructor	Crs Reg.	Days (M,T, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total

This course concentrates on the conservation of scarce energy resources in residential, commercial and industrial applications. The course will examine the common sources of energy loss in building systems and homes, industrial processes and transportation. Students will be introduced to residential energy audits and mitigation. Topics will also include regenerative transportation systems, LEED certification, test instruments, insulation values, heat exchangers and financial payback period. Includes hands-on lab exercises.

Recommended Prerequisites: RET-200

ос	RET-209-01	340206 MW		9-11:50 AM		
	S. PAVEY	\$378.00	\$39.00	\$131.25	\$548.25	

RET-211 RENEWABLE ENERGY II: SYSTEM FUNDAMENTALS, 3 CREDITS

This course in renewable systems will provide in-depth understanding of the technology, economics and policies relevant to each type of energy source. Analysis techniques to evaluate renewable energy applications from a systems design and selection perspective will be presented. Topics include physical operating principles, theoretical vs. actual system output, energy storage, efficiency and cost analysis. Includes hands-on lab exercises.

Prerequisites: RET-209

ос	RET-211-01	340226 TTH		9-11:50	АМ
	S. PAVEY	\$378.00	\$39.00	\$131.25	\$548.25

RENEWABLE ENERGY CAPSTONE PROJECT, 3 RET-217 CREDITS

This final class in the Renewable Energy series will concentrate on a capstone project. Students will evaluate a proposal for an alternative energy solution and then design an installation to meet the needs of the proposal. Students will be expected to perform a site survey, quantify energy requirements, select appropriate technologies, calculate the payback period and finally fabricate an actual or conceptual energy solution where appropriate.

Prerequisites: RET-215

ос	RET-217-01	336785 MW	785 MW 1-4:00		
	S. PAVEY	\$378.00	\$39.00	\$131.25	\$548.25

RET-280 RENEWABLE ENERGY/CWE, 1-12 CREDITS

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

Corequisites: CWE-281

ONL	RET-280-01	336786
	S. PAVEY	\$1,512.0 \$156.00 \$570.00 \$2,238.00V
		0

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

Small Business Development Center

Registration for these workshops does not require college

admission. E-mail bizcenter@clackamas.edu for online registration instructions.

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

SBM-010 REAL ESTATE BROKER LICENSE, 0 CREDIT

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

REM	SBM-010- 01SP	340039 TH S			5:30 -8:20 PM 9-4:50 PM		
	TBA	\$0.00	\$0.00	\$0.00	\$0.00		

SBM-011 PROPERTY MANAGEMENT PRE-LICENSE, 0 CREDIT

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

REM	SBM-011-	340040	Т			
	01SP					
	TBA		\$0.00	\$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-	340042	Т		6:30 -9:2	0 PM
	05SP					
	J. SELBY		\$0.00	\$0.00	\$0.00	\$0.00
REM	REM SBM-020- 34 06SP J. SELBY	340044	Т		6:30 -9:2	0 PM
			\$0.00	\$0.00	\$0.00	\$0.00
REM	SBM-020-	340046	T 6:30 -9:20 PM			0 PM
	07SP	βY				
	J. SELBY		\$0.00	\$0.00	\$0.00	\$0.00
REM	SBM-020-	340047	т		6:30 -9:2	0 PM
	08SP					
	J. SELBY		\$0.00	\$0.00	\$0.00	\$0.00

SBM-021C 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. The SBM class will address the challenges of creating an attractive business concept, building lasting customer relations, maintaining profitable operations, and developing strong organizational structure.

HAR HYB	SBM-021C- 01SP	340048	тн		1-3:50 PM	
	R. CAMPBELL		\$0.00	\$0.00	\$0.00	\$0.00
REM	SBM-021C-	340055	т		6:30 -7:50 PM	1
	03SP D. TOURNEY		\$0.00	\$0.00	\$0.00	\$0.00
	D. TOURINET		φ0.00	φ0.00	φ0.00	φ0.00

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

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

SBM-024C 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, 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 HYB	SBM-024C- 01SP	340049 TH			1-3:50 PM	
	D. TOURNEY		\$0.00	\$0.00	\$0.00	\$0.00

SBM-029C SMALL BUSINESS MANAGEMENT II FOR CONSTRUCTION CONTRACTORS, 0 CREDIT

Provides information on continuing to grow a successful construction business. Teaches students about payroll and benefits and registering for government contracts in the construction industry. Discusses long term business planning.

REM	SBM-029C-	340051	W		6-7:20 PM	
01SP						
	D. TOURNEY		\$0.00	\$0.00	\$0.00	\$0.00

XSBM- GOING INTO BUSINESS, 0 CREDIT 0003

Going Into Business orientation introduces the steps you need to take to start-up and successfully operate a small business in Oregon.

REM	XSBM-0003- 01SP	340027	TH		6:30 -9:20 P	М
	J. SELBY		\$0.00	\$0.00	\$0.00	\$0.00
REM XSBM-0003- 02SP	340028	TH		6:30 -9:20 P	М	
	J. SELBY		\$0.00	\$0.00	\$0.00	\$0.00
REM	XSBM-0003-	340029	TH		6:30 -9:20 P	М
	03SP					
	J. SELBY		\$0.00	\$0.00	\$0.00	\$0.00

XSBM- QUICKBOOKS PRO: PART I, 0 CREDIT 0011

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	HAR XSBM-0011-		w	6-8:50 PM		
	21SP					
	C. WEESNEF		\$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	336910 TTH		1-2:50 PM	
	J. FLOWERS	\$504.00	\$52.00	\$0.00	\$556.00
	No textbook re	equired.			

Sociology

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,) Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total		

2025/SF

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.

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ОС НҮВ	SOC-204-01	336877 W	10-11:5	50 AM				
	E. PFEIFER	\$504.00	\$52.00	\$0.00	\$556.00			
OC HYB	SOC-204-02	336880 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

ОС НҮВ	SOC-205-01	336881 TH		10-11:50 A	AM
	E. PFEIFER	\$504.00	\$52.00	\$0.00	\$556.00
OC HYB	SOC-205-02	336883 W		1-2:50 PM	
	E. PFEIFER	\$504.00	\$52.00	\$0.00	\$556.00

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

ONL LCT	SOC-206-01	336884			
	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 33	6887		
	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	336888				
	J. LOVELESS		\$504.00	\$52.00	\$0.00	\$556.00

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

Course	Listing											2025/SP
Course No	Course Title, 0	Credits				Course No	Course Title,	Credits				
	Section No Instructor	Crs Reg.	Days (M,T,W,TH.F,S Tuition Fee	SU) Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total
SOC-280	SOCIOLOG	Y/CWE, 2	-6 CREDITS (\	(AR)		Further stu	dies the meth	ods, techn	iques, ar	d theories	s of actin	g as an art

Third in a series.

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 3366

 SOC-280-01
 336894

 E. PFEIFER
 \$756.00
 \$78.00
 \$45.00
 \$879.00V

 Required: Student Petition. Corequisite: Take the following CWE-281-06.
 CWE-281-06.
 \$100 minute content cont

Statistics

STAT- ELEMENTARY STATISTICS I, 4 CREDITS 243Z

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 33691	4 TTH		10-11:50 A	AM
	M. PRICE	\$504.00	\$52.00	\$20.00	\$576.00
OC HYB LC	T STAT-243Z-02 33691	8 T		1-2:50 PM	
	K. AMREIN	\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	STAT-243Z-03 33692	20 MW		3-4:50 PM	
	M. PRICE	\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	STAT-243Z-04 33805	5 TTH		8-9:50 AM	
	T. BIEBER	\$504.00	\$52.00	\$20.00	\$576.00
ONL LCT	STAT-243Z-10 33692	22			
	K. AMREIN	\$504.00	\$52.00	\$20.00	\$576.00

Theatre Arts

TA-113 FUNDAMENTALS OF TECHNICAL THEATRE, 4 CREDITS

Third class in a three-part series. Advanced study and practice in 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 a journal/study (12 total hours) of outside class activity and observations of Technical Theatre applications.

OC LCT	TA-113-01	336046 TTH	1-3:50 PM		
	C. WHITTEN	\$504.00	\$52.00	\$35.00	\$591.00

TA-123 COSTUMING III, 3 CREDITS

Third 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.

Recommended Prerequisites: TA-121 or TA-122

OC LCT	TA-123-01	336052 MW		10-12:5	0 PM
	A. HEMLOCK	\$378.00	\$39.00	\$0.00	\$417.00

TA-143 ACTING III, 4 CREDITS

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile Training Center OFF: Other Off-Campus Location Distance Education Notification: ONL: Online Only REM: Remote (w/ scheduled meetings) HYB: In-person plus online work
 OC LCT
 TA-143-01
 336055 MW
 10-11:50 AM

 A. MOON
 \$504.00
 \$52.00
 \$35.00
 \$591.00

 TA-153
 THEATRE REHEARSAL & PERFORMANCE, 1-3 CREDITS

monologues/scenes from dramatic literature with written assignments to

include response and analysis papers. Advanced work on vocal and

Recommended Prerequisites: WRD-098, and TA-141 or TA-142

physical skills with special focus on character and creation of material.

form. Workshop, discussion, and performance of exercises and

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

(VAR)

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

OC LCT	TA-153-01	336059 MWF		3-5:50	PM
	A. MOON	\$378.0	\$39.00	\$25.00	\$442.00V
	Required: Stu	Ident 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	336068 MWF		12-2:50	PM
	A. MOON C. WHITTEN	\$378.00	\$39.00	\$35.00	\$452.00V
	Meets: Improv 2-2:50pm.	12-12:50PM, On	e-Acts 1-	1:50PM, \$	Stand-Up

TA-213 TECHNICAL THEATRE STUDY, 4 CREDITS

Third class in a three-part series. Comprehensive study and practice in presentational graphics, scene design, with specific focus in lighting design and chromatics. The full creative process of staging a production with be explored through aesthetic research and design projects. Includes hands-on participation in CCC's main stage productions. Students must participate in the focus, performance and strike (10 total hours) of a production. Students are required to maintain a journal/study (12 total hours) of outside class activity identifying and observing Technical Theatre applications.

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

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

OC LCT	TA-213-01	336075 TTH		336075 TTH 1-3:50 PM			M
	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

recommended Prerequisites. TA-155									
OC LCT	TA-253-01	336079 MWF		3-5:50 F	PM				
	A. MOON	\$378.00	\$39.00	\$25.00	\$442.00V				
	Required: St	udent Petition.							

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

Course	Listing				
Course No	Course Title, C Section No		W,TH.F,S,SU)		T -4-1
	Instructor	Tuition	Fee	Crs. Fee	Total

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	336082			
	C. WHITTEN	\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Stu	dent 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	336088 MWF	12-2:50 PM		PM
	A. MOON	\$378.00	\$39.00	\$35.00	\$452.00V
	C. WHITTEN				
	Meets: Improv -2:50pm.	12-12:50pm, One	e-Acts 1-1	1:50pm, S	Stand-Up 2

XATH- PLAYS & REHEARSALS, 0 CREDIT 0001

Training in theatre production through intensive study and rehearsal of scenes and plays for public performance.

ХАТН-	STAGECRAFT, 0	CREDIT			
OC	XATH-0001-01 337 A. MOON	7974 MWF \$0.00	\$0.00	3-5:50 PN \$35.00	1 \$35.00

0002

Training in special forms of theatrical presentation through in-class intensive preparation, study and program development for public presentation to the community.

ос	XATH-0002-01 33797	5 MWF		3-5:50 PM	
	A. MOON	\$0.00	\$0.00	\$35.00	\$35.00

Water & Environmental Technology

WET-030 WASTEWATER OPERATIONS III, 3 CREDITS

For professional upgrade only. Does meet the requirements for the certificate or degree. Design, operation, process control and maintenance of treatment facilities. Current treatment processes discussed in detail with particular attention given to biological sludge handling process. No lab requirement for this course.

Prerequisites: WET-020

OC	WET-030-01	336792 M 4-6:50 PM		1	
	M. LAFORCE	\$378.00	\$39.00	\$15.00	\$432.00

WET-031 WATER TREATMENT, 3 CREDITS

For professional upgrade only. Does not meet the requirements for the certificate or degree. Design, operation and process control of water treatment plants. Includes water chemistry, related math, coagulation, sedimentation, filtration and disinfection procedures. Review for Oregon Operator certification exams. No lab requirement for this course. Lab includes field trips to local water treatment facilities.

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,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total	
oc	WET-031-01 J. NURMI	336794	T \$378.00	\$39.00	4-6:50 PM \$15.00	\$432.00	

2025/SF

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.

ос	WET-108-01	336797	TWTHF		8-4:50 PM	
	J. NURMI		\$378.00	\$39.00	\$0.00	\$417.00
	Meets: 6/10-6/	13.				

WET-109 BACKFLOW ASSEMBLY OPERATION AND TESTING, 4 CREDITS

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

ос	WET-109-01	336798	мтютн	F	8-4:50 PM	
	M. LAFORCE		\$504.00	\$52.00	\$400.00	\$956.00
	Meets: 3/31-4/	4.				
oc	WET-109-02	336801	MTWTH	F	8-4:50 PM	
oc	WET-109-02 M. LAFORCE	336801	MTWTH \$504.00			\$956.00

WET-130 WASTEWATER OPERATIONS III, 4 CREDITS

Design, operation, process control and maintenance of treatment facilities. Current treatment processes discussed in detail with particular attention given to biological sludge treatment, and handling processes. Lab includes field trips to local wastewater facilities.

Prerequisites: WET-120

Corequisites: WET-130L

ос	WET-130-01	336803 M	4-6:50 PM		
	M. LAFORCE	\$504.00	\$52.00	\$40.00	\$596.00

WET-130L WASTEWATER OPERATIONS III LAB, 0 CREDIT

The course is devoted to comprehension of the wastewater treatment process via weekly exploration of a wastewater treatment plant. We will tour a treatment plant and then go over the treatment process in lecture. We will emphasis emerging wastewater technologies, (nitrification/denitrification), sludge and bio-solids management, volatile solids reduction through the digestion (aerobic and anaerobic) processes, sludge/solids processing, solids handling, and ultimate waste solids disposal. Fundamental principles of emerging wastewater treatment process, solids handling, including disinfection and dechlorination of wastewater will be emphasized. **Prerequisites:** WET-110 and WET-120

Corequisites: WET-130

OC	WET-130L-01	336804 M		1-3:50 PM	
	M. LAFORCE	\$0.00	\$0.00	\$0.00	\$0.00

WET-131 WATER TREATMENT, 4 CREDITS

Design, operation and process control of water treatment plants. Includes water chemistry, related math, coagulation, flocculation, sedimentation, filtration and disinfection procedures. Review for Oregon Operator grade 1 certification exams. Lab includes field trips to local water treatment facilities.

Prerequisites: WET-121

Corequisites: WET-131L

oc	WET-131-01 J. NURMI	336805 T \$504.00	\$52.00	4-6:50 PM \$40.00	\$596.00

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

Course No							_	-				2(025/S
	Course Title, Cr		_				Course No	Course Title, C		-			
	Section No Instructor	Crs Reg.	Days (M,T,W,T Tuition F	"H.F,S,SU) 'ee	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T,) Tuition	N,TH.F,S,SU) Fee	Time Crs. Fee	To
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oc	WET-134-01 J. NURMI	336810	W \$378.00 \$	\$39.00	9-1:50 PM \$50.00	\$467.00	oc	XWET-C004-	336921	TWTHF		8-4:50 PM	
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82 For information about Clackamas Community College, call 503-594-6000

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

ESPAÑOL: Enseñado en español LCT: Low-Cost Text

2025/SF

Total

testing/troubleshooting procedures. Students on, actual, and potential cross connection ntroduced to the basic requirements for ection program. Upon successful hands on and students will be issued certificate of completion pted for appropriate number of CEUs. Students egon Health Department for recertification by 336919 THF 8-4:50 PM \$0.00

S CONNECTION SPECIALIST COURSE, 3.20

ос	XWET-C004- 41	336921 TWTHF		8-4:50 PM	
	wet.eventbrite	\$0.00 13 Fee: \$400. Re com/ Contact Am ⊋clackamas.edu v	egister at	ele at	\$0.00

FLOW TESTER COURSE, 4.00 CEUS

oc	XWET-C005- 51	336924 MT	TWTHF	8-4:50 PM	
	M. LAFORCE	\$0.	.00 \$0.00	\$0.00	\$0.00
	Meets: 3/31-4	/4 in person	Fee: \$500. Reg	gister at ccc-	
	wet.eventbrite	.com/ Conta	ct Amber Steel	e at	
	amber.steele	@clackamas	.edu with quest	tions.	
oc	XWET-C005-	336927 M	IWTHF	8-4:50 PM	
	52				
	M. LAFORCE	\$0.	.00 \$0.00	\$0.00	\$0.00
	Meets 6/9-6/1	3 Fee: \$500	Registration fo	r this course is	on
	our Eventbrite	Page. Regi	ster at ccc-wet.	eventbrite.com	า/
	Contact Ambe	r Steele at a	amber.steele@	clackamas.edu	ı with
	questions.				

ogy

PRINT READING I, 3 CREDITS

HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonville Training Center

OFF: Other Off-Campus Location

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, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total	

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.

ос	WLD-100-01	336813	тн		2-4:50 PM	
	D. PODKOWA		\$378.00	\$39.00	\$219.00	\$636.00
OC	WLD-100-02	336815	Т		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: oxyacetylene 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.

ос	WLD-102-01	336816 F		6-9:50 PM	I
	A. TOWN	\$252.00	\$26.00	\$146.00	\$424.00
ос	WLD-102-02	336819 S		9-12:50 P	М
	K. DRURY	\$252.00	\$26.00	\$146.00	\$424.00
oc	WLD-102-03	336821 S		2-5:50 PM	I
	K. DRURY	\$252.00	\$26.00	\$146.00	\$424.00

WLD- INTRODUCCIÓN A LA SOLDADURA, 2 CREDITS 102ES

Diseñado para soldaderos principantes y experimental. Incluye corte y soldadura oxiacetileno, soldadura por arco de metal blindado (SMAW), la soldaduro 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	WLD-102ES-	336823	S		6-9:50 PM	
ESPAÑOL	01					
	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.

ос	WLD-103-01	339921 F	6-9:50 PM		1
	M. TIZO	\$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	336824	MW		8-11:50 AM	Λ
	D. PODKOWA	۱	\$504.00	\$52.00	\$432.00	\$988.00
	Required: Stu	dent Peti	tion.			
OC LCT	WLD-110-02	336827	MW		1-4:50 PM	
	D. PODKOWA	۱	\$504.00	\$52.00	\$432.00	\$988.00
	Required: Stu	dent Peti	tion.			
OC LCT	WLD-110-03	336828	MW		6-9:50 PM	
	M. TIZO		\$504.00	\$52.00	\$432.00	\$988.00
	Required: Stu	dent Peti	tion.			

Course No Course Title, Credits Section No Crs Reg. Days (M,T,W,TH.F,S,SU) Time Instructor Tuition Fee Crs. Fee Total WLD-110-04 OC LCT 336829 TTH 8-11:50 AM D. BATES \$504.00 \$52.00 \$432.00 \$988.00 Required: Student Petition. OC LCT WLD-110-05 336832 TTH 6-9:50 PM **B. MULLIGAN** \$504.00 \$52.00 \$432.00 \$988.00 Required: Student Petition. WLD-110-06 1-4:50 PM OC LCT 336835 TTH **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.

ос	WLD-111-01	336837 MTWTH	8-11:50 AM
	R. THOMAS	\$1,008.0	\$104.00 \$584.00 \$1,696.00
		0	

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.

ос	WLD-111A-01 336840) MW		АМ
	R. THOMAS	\$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:** WI D-111A

oc WLD-111B-01 33684		41 TTH	і ттн		8-11:50 AM	
	R. THOMAS	\$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.

oc	WLD-113-02	339918 TWTHF	12:01 -1:50 A	M
		MTWTH	10-11:59 PM	
	K. DRURY	\$1,008.0 0	\$104.00 \$584.00 \$1,6	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.

~~		000040 TTU		10.01.1	50 A.M
oc	WLD-113A-06	339919 ITH		12:01 -1:	50 AM
		MW		10-11:59	PM
	K. DRURY	\$504.00	\$52.00	\$292.00	\$848.00

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

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

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

ос	WLD-113B-06	339920	ттн		10-11:59 F	PM
			WF		12:01 -1:5	0 AM
	K. DRURY		\$504.00	\$52.00	\$292.00	\$848.00

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

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

OC	WLD-115-01	336843 MTWTH	6-9:50 P	Μ
	J. PHELPS	\$1,008.0	\$104.00 \$584.00	\$1,696.00
		0		

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

The first half of WLD-115 which provides the opportunity to acquire knowledge and skills to set up and operate equipment to perform fillet welds in flat and horizontal positions with the Gas Tungsten Arc Welding (GTAW) process. Plasma arc cutting will be covered.

oc	WLD-115A-01 336845 MW 6-9:50 PM	WLD-115A-01	
	J. PHELPS \$504.00 \$52.00 \$292.00 \$848.00	J. PHELPS	\$848.00
oc	WLD-115A-02 336846 MTWTH 7:30 -9:20 AM	WLD-115A-02	M
	R. ABBOTT \$504.00 \$52.00 \$292.00 \$848.00	R. ABBOTT	\$848.00
oc	WLD-115A-03 336852 MTWTH 1:15 -3:05 PM	WLD-115A-03	M
	R. ABBOTT \$504.00 \$52.00 \$292.00 \$848.00	R. ABBOTT	\$848.00
ос	WLD-115A-04 336854 MTWTH 3:30 -5:20 PM	WLD-115A-04	M
	MTWTH 3:50 -5:20 PM		M
	R. ABBOTT \$504.00 \$52.00 \$292.00 \$848.00	R. ABBOTT	\$848.00

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

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

Prerequisites: WLD-115A

oc	WLD-115B-01	336859	TTH		6-9:50 PM	
	J. PHELPS		\$504.00	\$52.00	\$292.00	\$848.00
oc	WLD-115B-02	336861	MTWTH		7:30 -9:20	AM
	R. ABBOTT		\$504.00	\$52.00	\$292.00	\$848.00
oc	WLD-115B-03	336863	MTWTH		1:15 -3:05	PM
	R. ABBOTT		\$504.00	\$52.00	\$292.00	\$848.00
oc	WLD-115B-04	336865	MTWTH		3:30 -5:20	PM
			MTWTH		3:50 -5:20	PM
	R. ABBOTT		\$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.

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	o Course Title, Credits						
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total	
00	WLD-150-01	336867	MW		6-9:50 PM		
	M. TIZO		\$504.00	\$52.00	\$292.00	\$848.00	
oc	WLD-150-02	336870	MW		8-11:50 AM	Λ	
	D. PODKOWA		\$504.00	\$52.00	\$292.00	\$848.00	

2025/SF

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

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

Prerequisites: WLD-100

OC .	WLD-200-01 33	36871 T		2-4:50 PM	
	D. PODKOWA		\$39.00	\$219.00	

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

ос	WLD-210-01	336873	MW		1-4:50 PM	
	D. PODKOWA		\$504.00	\$52.00	\$292.00	\$848.00
	Required: Stud	lent Peti	tion.			

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	WLD-211-01	336875 TTH		8-11:50 AM	
	D. BATES	\$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

ос	WLD-212-01	336876	MW		1-4:50 PM	
	D. PODKOWA		\$504.00	\$52.00	\$292.00	\$848.00
	Required: Stud	lent Peti	tion.			

WLD-215 ADVANCED GAS TUNGSTEN ARC WELDING, 4 CREDITS

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

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

OC	WLD-215-01	336878 TTH		6-9:50 PM	
	B. MULLIGAN	\$504.00	\$52.00	\$292.00	\$848.00

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

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

WELDING FABRICATION I BEGINNING PROJECT, 4 WLD-250 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	WLD-250-01	336879 TTH		1-4:50 PN	Λ
	B. MULLIGAN	\$504.00	\$52.00	\$292.00	\$848.00

WLD-251 WELDING FABRICATION II INTERMEDIATE PROJECT, CREDITS

This course consists of lecture and lab. Students will use the skills learned in WLD-250, such as blueprint reading, layout, sketching, bills o 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	WLD-251-01	336882 TTH		1-4:50 PN	Λ
	B. MULLIGAN	\$504.00	\$52.00	\$292.00	\$848.00

WLD-252 WELDING FABRICATION III ADVANCED PROJECT, 4 CREDITS

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

Prerequisites: WLD-251

ос	WLD-252-01	336885 TTH	1-4:50 PM	
	B. MULLIGAN	\$504.00	\$52.00 \$292.00 \$84	48.00

WLD-261 WELDING SPECIAL PROJECTS, 1-2 CREDITS (VAR)

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

OC LCT	HEB LOT OF		М		8-11:50 A	M
	R. THOMAS			\$26.00	\$146.00	\$424.00V
	Required: Stude				_	-
OC LCT	WLD-261-02	336889	М		1-4:50 PI	A
	D. PODKOWA		\$252.00	\$26.00	\$146.00	\$424.00V
	Required: Stude	ent Petil	tion.			
OC LCT			М		6-9:50 PI	Л
	J. PHELPS		\$252.00	\$26.00	\$146.00	\$424.00V
	Required: Stude	ent Petil	tion.			
OC LCT	WLD-261-04	336891	т		6-9:50 PI	Л
	J. PHELPS		\$252.00	\$26.00	\$146.00	\$424.00V
	Required: Stude	ent Petil	tion.			
OC LCT	WLD-261-05	336892	W		8-11:50 A	M
	R. THOMAS		\$252.00	\$26.00	\$146.00	\$424.00V
	Required: Stude	ent Petit	tion.			
OC LCT	WLD-261-06	336893	W		1-4:50 PI	Л
	D. PODKOWA		\$252.00	\$26.00	\$146.00	\$424.00V
	Required: Stude	ent Petit	tion.			
OC LCT	WLD-261-07	336895	W		6-9:50 PI	Л
	J. PHELPS		\$252.00	\$26.00	\$146.00	\$424.00V
	Required: Stude	ent Petit	tion.			

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

DRURY		\$252.00	\$26.00	\$146.00	\$424.0
.D-261-14	336899	т		8-11:50 A	١M
THOMAS		\$252.00	\$26.00	\$146.00	\$424.0
equired: Stu	dent Peti	tion.			
D-261-15	336901	тн		8-11:50 A	١M
THOMAS		\$252.00	\$26.00	\$146.00	\$424.0
equired: Stu	dent Peti	tion.			
D-261-16	340256	тн		1-4:50 PI	M
MULLIGAN		\$252.00	\$26.00	\$146.00	\$424.0
equired: Stu	dent Peti	tion.			
D-261-18	339924	Т		12:01 -1:	50 AM
		М		10-11:59	PM
DRURY		\$252.00	\$26.00	\$146.00	\$424.0
equired: Stu	dent Peti	tion.			
.D-261-19	340172	т		10-11:59	PM
		W		12:01 -1:	50 AM
DRURY		\$252.00	\$26.00	\$146.00	\$424.0
equired: Stu	dent Peti	tion.			
.D-261-20	340173	W		10-11:59	PM
		тн		12:01 -1:	50 AM
DRURY		\$252.00	\$26.00	\$146.00	\$424.0
equired: Stu	dent Peti	tion.			
				10-11:59	
	D-261-14 THOMAS equired: Stu D-261-15 THOMAS equired: Stu D-261-16 MULLIGAN MULLIGAN ORURY equired: Stu D-261-19 DRURY equired: Stu D-261-20 DRURY equired: Stu	D-261-14 336899 THOMAS equired: Student Petit D-261-15 336901 THOMAS equired: Student Petit D-261-16 340256 MULLIGAN equired: Student Petit D-261-18 339924 DRURY equired: Student Petit D-261-19 340172 DRURY equired: Student Petit D-261-20 340173 DRURY equired: Student Petit	D-261-14 336899 T THOMAS \$252.00 equired: Student Petition. D-261-15 336901 TH THOMAS \$252.00 equired: Student Petition. D-261-16 340256 TH D-261-16 340256 TH WULLIGAN \$252.00 equired: Student Petition. D-261-18 339924 T D-261-18 339924 T M DRURY \$252.00 equired: Student Petition. D-261-19 340172 T W DRURY \$252.00 equired: Student Petition. D-261-20 340173 W TH DRURY \$252.00 equired: Student Petition. D-261-20 340173 W TH DRURY \$252.00 equired: Student Petition.	D-261-14 336899 T THOMAS \$252.00 \$26.00 aquired: Student Petition.	D-261-15 336901 TH 8-11:50 A THOMAS \$252.00 \$26.00 \$146.00 equired: Student Petition. 1-4:50 PI D-261-16 340256 TH 1-4:50 PI MULLIGAN \$252.00 \$26.00 equired: Student Petition. 10-11:59 D-261-18 339924 T 12:01-1: M 10-11:59 DRURY \$252.00 \$26.00 equired: Student Petition. 10-11:59 D-261-19 340172 T 10-11:59 DRURY \$252.00 \$26.00 \$146.00 equired: Student Petition. 12:01 -1: DRURY DRURY \$252.00 \$26.00 \$146.00 equired: Student Petition. 10-11:59 TH 12:01 -1: DRURY \$252.00 \$26.00 \$146.00 equired: Student Petition. TH 12:01 -1: DRURY \$252.00 \$26.00 \$146.00 equired: Student Petition. TH 12:01 -1: DRURY \$252.00 \$26.00

Crs Reg.

Required: Student Petition.

Required: Student Petition.

336896 TH

336897 S

336898 S

Days (M,T,W,TH.F,S,SU)

\$252.00 \$26.00

Fee

Tuition

Time

\$252.00 \$26.00 \$146.00 \$424.00V

Crs. Fee

6-9:50 PM

9-12:50 PM

2-5:50 PM

\$146.00 \$424.00V

AM \$424.00V

Course No Course Title, Credits Section No

Instructor

OC LCT

OC LCT

oc

WLD-261-08

WLD-261-10

K. DRURY

WLD-261-11

J. PHELPS

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

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

E

Corequisites: CWE-281

ONL

K. DRURY

Required: Student Petition.

oc	WLD-280-01	336902			
	TBA	\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Stue CWE-281-06.	dent Petition. Core	equisite:	Take the	following

XWLD-**AMERICAN WELDING SOCIETY (WLD) CERTIFICATION 1** 0001 PLATE TEST, 0 CREDIT

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

XWLD-0001- 3369	928			
01				
B. MULLIGAN	\$0.00	\$0.00	\$140.00	\$140.00
Required: Student F	Petition.			

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

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

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

ESPAÑOL: Enseñado en español LCT: Low-Cost Text

Total

\$424.00V

\$424.00V

\$424.00V

\$424.00V

\$424.00V

\$424.00V

12:01 -1:50 AM

\$252.00 \$26.00 \$146.00 \$424.00V

Course No	Course Title, Credits						
	Section No Instructor	Crs Reg.	Days (M,T,) Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total	
ONL	XWLD-0002- 01 B. MULLIGAN Required: Stu		\$0.00	\$0.00	\$280.00	\$280.00	

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

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

ONL	XWLD-0003- 01	336930			
	B. MULLIGAN Required: Stud	\$0.00 ent Petition.	\$0.00	\$25.00	\$25.00

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	336990	М		10-11:50 A	M
	K. SEVERSON		\$504.00	\$52.00	\$0.00	\$556.00
	No textbook re	quired.				
ONL LCT	WS-101-02	336991				
	T. BOYLE-		\$504.00	\$52.00	\$0.00	\$556.00
	GALESTIANTZ					
	No textbook re	quired.				

World Languages

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

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

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

oc	ASL-101-01	336288 MW		10-11:5	0 AM
	A. ELLIS	\$504.00	\$52.00	\$10.00	\$566.00
	One-time text	book purchase for	ASL-101	and ASL	102.

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

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

Prerequisites: ASL-101 with a C or better

ос	ASL-102-01	336290 MW		1-2:50	РМ
	A. ELLIS	\$504.00	\$52.00	\$10.00	\$566.00
	One-time text	book purchase for	ASL-101	and AS	L-102.

ASL-103 FIRST-YEAR AMERICAN SIGN LANGUAGE III, 4 CREDITS

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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	e No	Course Title, Cr	redits				
		Section No Instructor	Crs Reg.	Days (M,T, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total

2025/SF

Third term of a three-term introductory course. Emphasis will be on developing conversational competence. Course includes basic ASL vocabulary and grammar used for basic communication such as opening conversations, clarifying, giving reasons, narrating family history, correcting, and elaborating.

Prerequisites: ASL-102 with a C or better

ONL

-	ASL-103-01	336292				
	A. ELLIS		\$504.00	\$52.00	\$10.00	\$566.00
	One-time text	book pure	chase for	ASL-103	and ASL	-201.

ASL-203 SECOND-YEAR AMERICAN SIGN LANGUAGE III, 4 CREDITS

Continuation of ASL-202. Emphasizes active communication in sign language. Increased emphasis on exploring, analyzing the rules, discussing, developing, and presenting literature and poetry in sign language.

Prerequisites: ASL-202 with a C or better

REM	ASL-203-01	336293 TTH		10-11:5	O AM
	A. ELLIS	\$504.00	\$52.00	\$10.00	\$566.00
	One-time text	book purchase for	ASL-202	and ASI	L-203.

FR-103 FIRST-YEAR FRENCH III, 4 CREDITS

Third term of a three-term foundational, multimedia course in beginning French designed to give students basic communicative proficiency in the target language. Students will practice all four skills: listening, speaking, reading, and writing. Special attention will be paid to pronunciation, essential grammar structures, and attendant cultural elements. Student learning is assessed through a variety of guided exercises and assignments, interactive activities, homework, tests and quizzes, and other class projects and participation.

Prerequisites: FR-102

OC LCT	FR-103-01	336491	TTH		10-11:50) AM
	E. HERNAND	EZ	\$504.00	\$52.00	\$10.00	\$566.00
	All materials	orovided	first day o	f class.		

GER-103 FIRST-YEAR GERMAN III, 4 CREDITS

Third term of a three-term foundational sequence in beginning German designed to give students basic communicative proficiency in the target language. Students will practice all four skills: listening, speaking, reading, and writing. Special attention is paid to pronunciation, essential grammar structures, and cross-cultural discussion and analysis.

Prerequisites: GER-102 or Student Petition

OC LCT	GER-103-01	340024	MW		1-2:50 PM	
	T. NIKOLOPO	ULOS	\$504.00	\$52.00	\$10.00	\$566.00
	All materials p	f class.				

SPN-101 FIRST-YEAR SPANISH I, 4 CREDITS

First of a three-term foundational, multimedia course for beginners. Initial emphasis is on speaking and listening comprehension, with secondary emphasis on reading and writing. Various cultural themes are presented. **Recommended Prerequisites:** WRD-098 or placement in WR-121Z

ONL LCT	SPN-101-01	338072

E. RONICK	\$504.00	\$52.00	\$10.00	\$566.00
All materials provided	first day o	f class.		

SPN-102 FIRST-YEAR SPANISH II, 4 CREDITS

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

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

Course No	Course Title, Cr	edits					
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	/,TH.F,S,SU) Fee	Time Crs. Fee	Total	
Prerequisites: SPN-101							
Recomme	nded Prerequis	sites: W	RD-098 o	r placem	ent in WR-12	21Z	
OC LCT	SPN-102-01	336900	MW		1-2:50 PM		
	E. RONICK		\$504.00	\$52.00	\$10.00	\$566.00	
	All materials p	rovided	first day o	f class.			
ONL LCT	SPN-102-02	339904	ļ				
	V. SHORT		\$504.00	\$52.00	\$10.00	\$566.00	
	All materials p	rovided	first day o	f class.			

SPN-103 FIRST-YEAR SPANISH III, 4 CREDITS

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

Prerequisites: SPN-102

OC LCT	SPN-103-01 3	36903 TTH		10-11:50 A	M
	A. METHADZOV	'IC \$504.00	\$52.00	\$10.00	\$566.00
	All materials prov	vided first day o	f class.		
ONL LCT	SPN-103-02 3	36906			
	V. SHORT	\$504.00	\$52.00	\$10.00	\$566.00
All materials provided first day of class.					

SPN-203 SECOND-YEAR SPANISH III, 4 CREDITS

Third of a three-term, intermediate, multimedia course. Focus is on speaking, listening comprehension, reading and writing. Explores cultural differences among Spanish-speaking countries and between the latter and European-American culture.

Prerequisites: SPN-202

ONL	SPN-203-01	336908			
	V. SHORT	\$504.00 \$52.00 \$10.00 \$566.00			
	All materials provided first day of class.				

Writing

WR-101 WORKPLACE WRITING, 4 CREDITS

Students in this course learn and practice basic modes of technical writing, including summaries, process analysis, instructions, and reports. **Prerequisites:** WRD-098 or placement in WR-101 or WR-121Z

OC HYB LCT WR-101-01 336926 T		1-2:50 PM			
C. ZIMMERLY	'-BECK	\$504.00	\$52.00	\$19.00	\$575.00

WR-121Z COMPOSITION I, 4 CREDITS

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

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

OC LCT	WR-121Z-01	336934	MW		10-11:50 A	AM
	W. DAWKINS		\$504.00	\$52.00	\$19.00	\$575.00
OC LCT	WR-121Z-02	336936	MW		1-2:50 PM	
	J. BRYANT-TF	RERISE	\$504.00	\$52.00	\$19.00	\$575.00
OC LCT	WR-121Z-03	336937	MW		1-2:50 PM	
	TBA		\$504.00	\$52.00	\$19.00	\$575.00
OC LCT	WR-121Z-04	336938	TTH		10-11:50 A	AM
	C. ZIMMERLY	BECK	\$504.00	\$52.00	\$19.00	\$575.00
OC LCT	WR-121Z-05	336939	TTH		1-2:50 PM	
	S. WARREN		\$504.00	\$52.00	\$19.00	\$575.00
OC HYB LC	TWR-121Z-06	336940	М		1-2:50 PM	
	W. DAWKINS		\$504.00	\$52.00	\$19.00	\$575.00

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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 OC HYB LCT WR-121Z-07 336941 T 10-11:50 AM S. NIZIOLEK \$504.00 \$52.00 \$19.00 \$575.00 OC HYB LCT WR-121Z-08 336942 T 3-4:50 PM S. WARREN \$504.00 \$52.00 \$19.00 \$575.00 ONL LCT WR-121Z-09 336943 N. ROSEVEAR \$504.00 \$52.00 \$19.00 \$575.00 336944 ONI LCT WR-121Z-10 T. DODGE \$504.00 \$52.00 \$19.00 \$575.00 336945 ONL LCT WR-121Z-11 T. DODGE \$504.00 \$52.00 \$19.00 \$575.00 ONI WR-121Z-12 336946 **B** DAVIS \$504.00 \$52.00 \$19.00 \$575.00 ONL WR-121Z-13 336947 **B** DAVIS \$504.00 \$52.00 \$19.00 \$575.00 HAR WR-121Z-15 340191 MW 10-11:50 AM J. PONS \$504.00 \$52.00 \$19.00 \$575.00 HAR HYB WR-121Z-16 340192 M 6-7:50 PM M. SCHUMACHER \$504.00 \$52.00 \$19.00 \$575.00

WR-122Z COMPOSITION II, 4 CREDITS

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

Prerequisites: WR-121Z with a C or better

OC LCT	WR-122Z-01 3369	52 MW		10-11:50 A	M
	P. CRUMRINE	\$504.00	\$52.00	\$19.00	\$575.00
OC LCT	WR-122Z-02 33695	53 MW		10-11:50 A	M
	C. BURNELL	\$504.00	\$52.00	\$19.00	\$575.00
OC LCT	WR-122Z-03 33695	54 MW		1-2:50 PM	
	C. BURNELL			\$19.00	
OC LCT	WR-122Z-04 33695	55 TTH		10-11:50 A	M
	T. DONNELLY	\$504.00	\$52.00	\$19.00	\$575.00
OC LCT	WR-122Z-05 33695	56 TTH		1-2:50 PM	
	E. WILDER-TACK				
OC HYB	WR-122Z-06 33695	57 M		1-2:50 PM	
	M. SCHUMACHER	\$504.00	\$52.00	\$19.00	\$575.00
OC HYB LCT	WR-122Z-07 33695	58 T		10-11:50 A	M
	J. DAVIS	\$504.00	\$52.00	\$19.00	\$575.00
OC HYB LCT	WR-122Z-08 33695	59 T		1-2:50 PM	
	R. MURPHY	\$504.00	\$52.00	\$19.00	\$575.00
ONL LCT	WR-122Z-09 33696	60			
	R. MURPHY	\$504.00	\$52.00	\$19.00	\$575.00
ONL LCT	WR-122Z-10 33696				
	S. NIZIOLEK	\$504.00	\$52.00	\$19.00	\$575.00
ONL LCT	WR-122Z-11 33696	62			
	R. MURPHY	\$504.00	\$52.00	\$19.00	\$575.00
ONL	WR-122Z-12 33696				
	L. ORMANDY	\$504.00	\$52.00	\$19.00	\$575.00
ONL	WR-122Z-13 33696	64			
	M. SCHUMACHER	\$504.00	\$52.00	\$19.00	\$575.00
HAR	WR-122Z-15 34019	93 MW		1-2:50 PM	
	E. WILDER-TACK	\$504.00	\$52.00	\$19.00	\$575.00

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

Other Coding Translations: TBA: To be arranged: contact department first class VAR: Variable credit class ESPAÑOL: Enseñado en español LCT: Low-Cost Text

2025/SP

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

Este curso ofrece una introducción al ensayo académico. El alumnado aprenderá un proceso de escritura y redacción: desde cómo hacer una «Iluvia 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 v cómo citarlos.

Required: Los y las estudiantes deben leer y escribir a nivel

universitario, en español, antes de comenzar el curso

Prerequisites: WRD-098ES o tener un nivel de evaluación de WR-124ES

ONL WR-124ES-01 340195 ESPAÑOL

SPANOL					
	A. DEFREESE	\$504.00	\$52.00	\$19.00	\$575.00

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

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

Prerequisites: WR-121Z with a C or better

ONL LCT	WR-128-01 3369	67			
	S. PESZNECKER	\$0.00	\$0.00	\$19.00	\$19.00

WR-220 CREATIVE WRITING: COMICS, 4 CREDITS

Through the discussion and analysis of dramatic structure, character development and the elements of good storytelling in both visual and written language, students will learn the basic elements of scriptwriting for comics. They will also develop skills in the reading, writing, research, discussion and editing of their own work.

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

Recommended Prerequisites: ENG-116

OC HYB	WR-220-01	340198 TH	1-2:50 PM			
	T. DODGE	\$504.00	\$52.00	\$0.00	\$556.00	

WR-222 ENGLISH COMPOSITION, 4 CREDITS

A course in writing university-level research papers and pursuing lifelong learning through advanced research. Students continue to develop their information and research literacy by carrying out inquiry-driven research; this involves a variety of research skills and tools and an emphasis on locating, assessing, and working with college library resources.

Prerequisites: WR-122Z

ONL	WR-222-01	340197	,			
	S. PESZNECK	KER	\$504.00	\$52.00	\$19.00	\$575.00

WR-227Z TECHNICAL WRITING, 4 CREDITS

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

Prerequisites: WR-121Z with a C or better

OC LCT	WR-227Z-01	336969 TTH		1-2:50 F	РМ
	L. ORMANDY	\$504.00	\$52.00	\$19.00	\$575.00

Campus Locations:	Distance Education Notification:
HAR: Harmony Community Campus	ONL: Online Only
OC: Oregon City Campus	REM: Remote (w/ scheduled meetings)
WILS: Wilsonville Training Center	HYB: In-person plus online work
OFF: Other Off-Campus Location	

2025/SF

Course No	Course Title, Cr					
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
OC HYB LCT	WR-227Z-02	336970	Т		3-4:50 PM	
	L. ORMANDY		\$504.00	\$52.00	\$19.00	\$575.00
ONL LCT	WR-227Z-03	336971				
	J. MCALPINE		\$504.00	\$52.00	\$19.00	\$575.00
ONL LCT	WR-227Z-04	336972				
	C. ZIMMERLY	BECK	\$504.00	\$52.00	\$19.00	\$575.00
ONL	WR-227Z-05	340199				
	S. WARREN		\$504.00	\$52.00	\$19.00	\$575.00
HAR HYB	WR-227Z-15	340200	Т		6-7:50 PM	
	TBA		\$504.00	\$52.00	\$19.00	\$575.00

WR-240 CREATIVE NONFICTION WRITING I, 4 CREDITS

Techniques of writing and analyzing types of creative nonfiction such as literary journalism, memoirs, nature or science writing, travel writing, and personal essays.

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

ONL LCT	WR-240-01	336974			
	T. DODGE	\$504.00	\$52.00	\$19.00	\$575.00

WR-244 FICTION WRITING II, 4 CREDITS

For students with previous writing experience who wish to learn advanced techniques in the theory, art and creative practice of fiction writing. Specific emphasis on the creation and revision of short prose forms, with focused attention on their publication and distribution.

Prerequisites: WR-241

ос нув LCT WR-244-01	336975 T		1-2:50 PI	M
N. ROSEVEAR	R \$504.00	\$52.00	\$19.00	\$575.00

WR-262 INTRODUCTION TO SCREENWRITING, 4 CREDITS

Explores the fundamentals of screenplay composition through the use of various writing exercises and workshop techniques. Discussion of dramatic structure and the elements of good storytelling. May be repeated for up to 8 credits.

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

ос	WR-262-01	336977 MW		10-11:50	D AM
	R. DAVIS	\$504.00	\$52.00	\$19.00	\$575.00

WR-265 DIGITAL STORYTELLING, 4 CREDITS

Digital Storytelling is a contemporary expression of the ancient art of storytelling. In this class students will write and create unique digital first person narratives using cloud-based editing tools, photographic and film images, music, and voice. Students will further become active participants in both local and global communities of storytellers.

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

ос	WR-265-01	338046 TTH		10-11:5	0 AM
	A. COFFEY	\$504.00	\$52.00	\$40.00	\$596.00

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

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

Prerequisites: Placement in WRD-090

OC LCT	WRD-090-01	336978	ттн		10-11:50 A	M
	J. PONS		\$504.00	\$52.00	\$19.00	\$575.00
ONL LCT	WRD-090-02 A. WARREN		\$504.00	\$52.00	\$19.00	\$575.00

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

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

Course	Listing											2	2025/SP
Course No	Course Title, Cr	edits					Course No	Course Title, C	redits				
	Section No Instructor	Crs Reg.	Days (M,T,) Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T, Tuition	,W,TH.F,S,SU) Fee	Time Crs. Fee	Total

Preparation for writing in college-level courses. Students discuss a variety of early-college-level readings, and develop and refine their own essays (up to three pages) through a process of revision and multiple drafts. Other topics include becoming a confident reader, finding and using information, and giving credit to sources through informal citations. **Prerequisites:** WRD-090 or placement in WRD-098

OC LCT	WRD-098-01	336982	MW		1-2:50 PM	
	J. DAVIS		\$504.00	\$52.00	\$19.00	\$575.00
OC LCT	WRD-098-02	336984	TTH		1-2:50 PM	
	J. PONS		\$504.00	\$52.00	\$19.00	\$575.00
ONL LCT	WRD-098-03	336986				
	E. WILDER-TA	CK	\$504.00	\$52.00	\$19.00	\$575.00
ONL	WRD-098-04	336988				
	TBA		\$504.00	\$52.00	\$19.00	\$575.00
HAR	WRD-098-15	340201	MW		6-7:50 PM	
	TBA		\$504.00	\$52.00	\$19.00	\$575.00

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

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

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

ONL WRD-098ES- 340203 ESPAÑOL 01

L	01				
	A. DEFREESE	\$504.00	\$52.00	\$19.00	\$575.00

XWR-0001 CHRYSALIS WOMEN WRITERS, 0 CREDIT

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

OC HYB LCT XWR-0001-01	336995 W		12-1:50 Pl	M
P. LICHEN	\$0.00	\$0.00	\$0.00	\$0.00

Zoology

Z-203 GENERAL ZOOLOGY, 4 CREDITS

A lab course covering diversity of the more complex invertebrate and vertebrate animal phyla. Includes animal anatomy/physiology, animal behavior, distribution, ecology and conservation.

Prerequisites: MTH-095 with a C or better or placement in MTH-111Z Coreauisites: Z-203L

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

ос	Z-203-01	336931 MW		10:30 -	11:50 AM
	J. BOWN	\$504.00	\$52.00	\$55.00	\$611.00
	Corequisite:	Take the following 2	Z-203L-0	1.	

Z-203L GENERAL ZOOLOGY LAB, 0 CREDIT

Lab course for Z-203 Corequisites: 7-203

Corequ	IISILES. Z-203				
ос	Z-203L-01	336935 W		1-3:50 PN	1
	J. BOWN	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite:	Take the following	Z-203-0	1.	

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonvile 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

WE WELCOME HE RECCU

ALL ETHNICITIES, ALL RELIGIONS,

> ALL COUNTRIES OF ORIGIN, ALL AGES,

ALL ABILITIES, ALL GENDER IDENTITIES,

ALL SEXUAL ORIENTATIONS.

WE STAND WITH YOU. YOU BELONG HERE!



COMMUNITY EDUCATION

Our community partners provide programming for all ages!



Clackamas Community College's Community Education Department is entering a new chapter as we welcome a new Community Education Coordinator.

With a desire for growth, we are committed to expanding and diversifying our programming to better serve the needs and interests of our local community.

As we envision the future of Community Education, we recognize that input from community members is essential to shaping the direction of our offerings.

We are excited to hear from individuals about the programs they would like to see, the skills they want to develop and the opportunities they feel would benefit the broader community.

Together with our community partners, we can create a vibrant and inclusive educational experience that reflects the dynamic needs of those we serve. To provide feedback, scan the QR code or visit *bit.ly/community-edu-survey* to

complete the anonymous survey!



Senior Discount

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





CANBY

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

GLADSTONE

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

MILWAUKIE

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

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

OREGON CITY

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

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

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

TEAM OREGON

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

WEST LINN

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

WILSONVILLE

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

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

Please register for classes directly through the Community Education Partner hosting the class you would like to attend. Many partners accept online registrations on their websites. Please contact the partner if you have additional questions regarding your classes or their policy regarding refunds.

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 fulltime 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 myClackmas 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

ALL CAMPUSES CLOSED

May 26, Memorial Day

Most student services are available during their regular business hours through video conference, phone and email. For the most up-to-date information, visit www.clackamas.edu/hours.

BARLOW HALL

ITS – Information Technology Services M-F Mar. 31-June 14 7 a.m.-7 p.m.

DYE LEARNING CENTER

Academic Computing Lab

Limited on-campus computers available for student use, see website for specific days and times. www.clackamas.edu/tutoring/

Librarv

Open in person and online. For research help, visiting hours, and access to articles, books, streaming video, and more, go to library.clackamas.edu

Writing Center, Math Lab and Other Tutoring Services Limited on-campus and online tutoring available, see website

for specific days and times. www.clackamas.edu/tutoring/

Cougar Connect Tech Help Desk / Moodle Help

On-campus technology help is available during regular business hours; visit the Cougar Connect Tech Help Desk for specific days and times.

For virtual technology help, visit https://www.clackamas. edu/cougarconnect or call 503-594-6632 during regular business hours. For after hours, weekend, or bilingual support, visit online.clackamas.edu (see Academic Support and Essentials > Moodle Help > Extended Support).

McLOUGHLIN HALL

Bookstore

Open Monday-Friday, please check the website at https://clackamasccbookstore.com for the current days and times.

Textbook Buyback & Rental Check-In

Rental Return Due Date - June 13, 2025

PAULING CENTER

Workforce Development Services

Mar. 31-June 14

M-F 8 a.m.-5 p.m.

RANDALL HALL

Fitness Center

(Hours vary, please check door for posted hours)

STREETER HALL

Open Computing Lab

Limited on-campus computers available for student use, see website for specific days and times. www.clackamas.edu/tutoring/

WACHENO WELCOME CENTER

Wacheno welcome Center offers limited in-person services on Fridays from 9 a.m.-4 p.m.

Academic Advising & Career Services

Office Hours	M/T/Th W	9 a.m4 p.m. 10 a.m4 p.m.
Remote working hours	M-F	8 a.m5 p.m.

Counseling Services

Telehealth and in-pe	erson appoir	ntments available, contact
counseling@clacka	mas.edu or	[.] call 503-594-3176.
Office Hours	M-Th	9 a.m4 p.m.

Remote working hours M-F	8 a.m5 p.r
Disability Resource Center	

Office Hours M-Th Remote working hours M-F

Enrollment Services & Graduation Services Office Hours M-Th 9 a.m.-4 p.m. 8 a.m.-5 p.m.

Remote working hours M-F **Financial Aid Resource Lab**

Available M-Th Drop-In Zoom hours: MW

11 a.m.-2 p.m. **Financial Aid & Scholarships**

M/T/Th 9 a.m.-4 p.m. Office Hours

W

10 a.m.-4 p.m. Remote working hours M-F 8 a.m.-5 p.m.

9 a.m.-4 p.m.

8 a.m.-5 p.m.

n.

10 a.m.-1 p.m. or by appt.

9 a.m.-4 p.m.

8 a.m.-5 p.m.

Student Life & Leadership

Office Hours M-Th Remote working hours M-F

Testing & Assessment Center

(Call 503-594-3283 for specific test times)

Veterans Education and Training Center Office Hours M-Th 9 a.m.-4 p.m. Remote working hours M-F 8 a.m.-5 p.m.

WHERE TO FIND FOOD

Cafeteria: Cougar Café, Wacheno Welcome Center, hours vary. The café features grill items such as burgers and fries. In addition, vending machines offer fresh-food options as well as convenience items.

Bookstore, McLoughlin Hall, offers a variety of grab-and-go food selections as well as convenience items and beverages, including coffee. A microwave is available in the store to heat food.

Vending machines in various other locations across campus will provide additional snacks.

CCC BOOKSTORE

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.

Spring term dates to remember:

Textbook sales begin online and in-store – Mar. 3, 2025 Last day for textbook refunds – Apr. 4, 2025 without drop; Apr. 25 with proof of drop

Rental books due back – June 13, 2025

Shop with purpose at Clackamas Community College Bookstore. Every purchase directly benefits the Clackamas Community College campus community. From student scholarships to new programs, your dollars make a difference in shaping a brighter academic future.

For campus maps, store hours, shipping costs, refund/returns policies and ordering details, see clackamasccbookstore.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
- 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:

Campus closure

If all campuses are closed, all classes, athletics, and events are canceled. Child care services may also close.

Late start

If the college issues a late start, all classes, events, and activities are canceled until a time to be determined.

Evening class closure

Should inclement weather hit in the afternoon or evening, a closure will be determined by 3 p.m. when possible. In the event of an evening closure, the college will close at 5 p.m. and all classes beginning at or after 4 p.m. will be canceled.

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	\$129	. beverlyf@clackamas.edu
Adult High School Diploma.	Lisa Nielson.	. 503-594-3401		.lisan@clackamas.edu
Anthropology	Keely Baca	. 503-594-3409	M223	. keely.baca@clackamas.edu
ApprenticeshipArboriculture	Katelyn Karch	. 503-594-6201		. kkarch@clackamas.edu
Arboriculture	Chris Konieczka	. 503-594-6213	C124	. chrisk@clackamas.edu
Art				
Automotive				
Business Administration	Sharon Parker	. 503-594-3075	\$123	.sharonp@clackamas.edu
Career Technical Education Licensure Prep.	Megan Helzerman	. 503-594-09/6	+108c	.meganh@clackamas.edu
Clinical Lab Assistant/Phlebotomy	Marilyn Braught	. 503-594-0634	H350	.marilyn.braught@clackamas.edu
Communications/Speech	Kerrie Hughes	. 503-594-3155	N13/	. kerrieh@clackamas.edu
Computer Science: Transfer		. 503-594-3166		. richa@clackamas.edu
Computer Science: Application Support & Web Design .	Debra Carino.	. 503-594-31/0		. dcarino@clackamas.edu
Computer Science: Network Administration		. 303-374-3107 E03 E04 3130		ion miller@eleekemee.edu
Criminal Justice/Corrections	Jen Willer	502 501 4220		.jen.miler@clackamas.edu
Customized Training & Development Services	Staff	503 504 3200	P10/	training@clackamas.edu
Customized Training & Development Services Dental Assistant	Kari Hiatt	503 504 0674	104 Ц385	kari biatt@clackamas.edu
Digital Media Communications	Nora Brodnicki	503 504 3036	ΛC104	norab@clackamas.edu
Early Childhood Education	Dawn Hendricks	503-594-6158	F116	dawn bendricks@clackamas.edu
Early Childhood Education	Derek Lougee	503-594-3408	M213	derek lougee@clackamas.edu
Education	Laurette Scott	503-594-3840	F115	laurette@clackamas.edu
Education Infantil y Estudios Familiares	Ada Echevarria	503-594-1828	F112	ada echevarria@clackamas.edu
Electronics and Microelectronics.	Mike Mattson	503-594-3322	1217	mattsonm@clackamas.edu
Emergency Medical Technology	Tana Sawzak	503-594-6025	H382	tanas@clackamas.edu
Engineering	Eric Lee	. 503-594-6163		, elee@clackamas.edu
Engineering	Matt LaForce	. 503-594-3148		. laforce@clackamas.edu
English	Amanda Coffey	. 503-594-3257	RR242	.amandac@clackamas.edu
English for Speakers of Other Languages	Laura Jovce	. 503 594-3718		. laurai@clackamas.edu
Environmental Safety and Health	Mike Mattson	. 503-594-3322		.mattsonm@clackamas.edu
Fire Science	Jordan Gulley	. 503-594-3683		.wildlandfire@clackamas.edu
GED/ABE	Lisa Nielson	. 503-594-3401		. lisan@clackamas.edu
Geography	Derek Lougee	. 503-594-3408	M213	.derek.lougee@clackamas.edu
Gerontology	Yvonne Smith	. 503-594-3207	HW315	. yvonnes@clackamas.edu
GIS				
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		. yvonnes@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		. mattsonm@clackamas.edu
Journalism	Melissa Jones	. 503-594-3261	RR132	. melissaj@clackamas.edu
Landscape				
Management	Sharon Parker	. 503-594-3075	\$123	.sharonp@clackamas.edu
Marketing	Beverly Forney	. 503-594-3115	\$129	.beverlyf@clackamas.edu
Math	Kelly Mercer	. 503-594-6154	\$102	. 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	N129b	. david.badstubner@clackamas.edu
Nursing				
Organic Farming	Chris Konieczka	. 503-594-6213		. chrisk@clackamas.edu
Philosophy.		. 503-574-3408	MIZ13	. derek.lougee@clackamas.edu
Physical Education/Health	Jim Martineau	. 503-594-32/1		.jmartineau@clackamas.edu
Political Science.		. 503-594-3408	MZ13	. derek.lougee@clackamas.edu
Pre-Professional (medical, dental, pharmacy)		. 503-574-3352		.eaent@clackamas.edu
Project Management.		. 303-374-6478 502 504 4425		. Irancisco.corona@clackamas.edu
Psychology				
Religion				
Reading/Study Skills	Lisa Intelsoft	502 504 2222		matteonm@clackamag.adu
Renewable Ellergy	Roverly Forney	502 50/ 2115	ı∠ı/l ¢120	hoverlyf@clackamac.adu
Retail Management	Kelly Marcor	503-574-5115 503-501 6151	S102	kelly mercer@clackamas.edu
Science	Matt Adams	503-574-0154 503-591-2677	T125	matt adams@clackamas.edu
Search and Rescue	liea Nieleon	503-574-3077 503-597-3077	D111	lisan@clackamas.edu
Small Business Development Center	Rob Campbell	503-594-0722		hizcenter@clackamas.edu
Social Science	Derek Lougee	503-594-3/08	M213	derek lougee@clackamas.edu
Sociology.	Frich Pfeifer	503-594-3400	M225	erichn@clackamas.edu
Theatre Arts				
Undecided Major of Study				
Uncrewed Aircraft Systems				
		503-594-31/R	D 210	laforce@clackamas.edu
Water & Environmental Jechnology				. a.o.coociackaiiiaa.cuu
Water & Environmental Technology	Jim Nurmi	503-594-3813	D.J211	jamesn@clackamas.edu
Water & Environmental Technology	Jim Nurmi	. 503-594-3813		. jamesn@clackamas.edu dustinb@clackamas.edu
Water & Environmental Technology	Jim Nurmi	. 503-594-3813 . 503-594-3973	B259	. dustinb@clackamas.edu

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

WHERE TO CALL CCC'S MAIN PHONE NUMBER IS 503-594-6000.

BLD	G.* DEPARTMENT/OFFICE	PHONE
ABE	/GED	
D	Oregon City	503-594-3027
Н	Harmony	
D	Adult High School Diploma – Oregon City	
Aca	demic Advising	
WC	Oregon City	503-594-3475
Н	Harmony	503-594-0623
W	Wilsonville	503-594-0959
Boo	kstore	
М	Bookstore – Oregon City	503-594-6500
Test	ing/Assessment Center	
WC	Oregon City	503-594-3283
Н	Harmony	503-594-0636
W	Wilsonville	503-594-0940
В	Account Receivable	503-594-6068
WC	Admissions & Recruitment/Welcome Center	
WC	Advanced College Credit	
Т	Apprenticeship	
С	Arboriculture	
AC	Art	
WC	Associated Student Government	
R	Athletics	503-594-3043
В	Automotive	
S	Business	503-594-3071
HW	Business Development Center	
В	Business Office	
WC	Cafeteria	
WC	Campus Tours	
WC	Career Center	
1	Career Technical Education.	
F	Child Care Center	
•	Child Care Info & Referral	
Р	The Clackamas Print Newspaper	
M	College Safety Office	
N	Communication Studies	
Н	Community Education	
••	Community Garden.	
D	Computer Lab (Academic)	
S	Computer Lab (Open).	
S	Computer Science.	
WC	Cooperative Work Experience	
D	Cougar Connect Desk.	
WC	Counseling	
HW	Criminal Justice/Corrections	
P	Customized Training & Development	
AC	Digital Media Communications.	
AC WC	Disability Resource Center	
F	Education and Early Childhood Education	
г I	Electronics & Microelectronics	
ı T		
i DJ	Emergency Management	
	5 5	
' Find	building code key on the campus map on the back cover	r of this schedule.

BLDG	i.* DEPARTMENT/OFFICE	PHONE		
RR	English	503-594-3254		
D	English for Speakers of Other Languages			
WC	Enrollment Services.			
ELC	Environmental Learning Center	503-594-3306		
В	Environmental Safety & Health			
G	Events & Conference Services - Oregon City			
Н	Events & Conference Services - Harmony			
W	Events & Conference Services - Wilsonville			
WC	Financial Aid and Scholarship Office.			
HW	Gerontology			
Т	GIS			
WC	Graduation Services			
R	Gym			
Н	Harmony Campus Registration/Information	503-594-0620		
н	Health Sciences.			
WC	High School Connections			
C	Horticulture			
В	Human Resources/Employment Opportunity			
F	Human Services.			
1	Industrial Technology			
B	Instructional Media Services			
ь С				
D	Landscape			
_	Learning Center			
D				
D	Library - Reference			
WC	Life & Career Options			
S	Math			
D	Moodle Help			
N	Music			
Н	Nursing			
WC	Office of Education Partnerships.			
С	Organic Farming			
S	Online Learning & Educational Technology			
P	Pauling Center Gallery			
R	Physical Education			
RR	President's Office			
WC	Registration and Records			
I	Renewable Energy Technology			
DJ	Science			
D	Skills Development			
М	Social Science			
WC	Student Life & Leadership	503-594-3040		
WC	Student Support Services	503-594-3475		
Ν	Theater/Performing Arts			
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			
RR	Vice President, Instructional & Student Services			
DJ	Water & Environmental Technology			
Т	Welding			
Т	Wildland Fire			
W	Wilsonville Registration/Information			
P	Workforce Development Services			
M	World Languages	503-594-3403		
D	Writing Center.			
2		200 074 0270		

* 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: www.clackamas.edu/ 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.



Clackames Town Center Clackamas Johnson City Gladstone West Linn Cregon City Transit Center Cregon City Cregon City Cregon City Cregon City Cregon City Cregon City Clackamas Conter Cregon City Cregon City Clackamas Conter Cregon City Cregon City Clackamas Clackamas Conter Cregon City Cregon City Clackamas Conter Cregon City Cregon City Clackamas City Clackamas

Primary Stops

#ClackCo

Sol	uthbound										
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
No	rthbound										
E	OCC Gregon City Campus	6:45	8:05	9:25	10:45	12:45	2:05	3:25	4:45	6:45	8:05
в	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**
- **Čenter** (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) Welding

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

29353 SW Town Center Loop E Wilsonville, OR 97070

CCC Wilsonville Campus