# Clackans Community College

## Winter 2025

Winter term classes begin January 6 • www.clackamas.edu • Go Far, Close to Home.

## INDEX

#### **General Information**

Academic Regulations90Adding & Dropping Classes90Bookstore93Campus Mapback pageClackamas in Your Community12CCC Harmony Community Campus12College Closure Information93Community Education89Dates to Remember/Calendar3Faculty Advisors94Final Exam Schedule3Financial Aid5Getting Started4Graduation7
Hours92CCC Oregon City Campus.92CCC Harmony Community Campus11CCC Wilsonville Campus11Online Learning10Payment Options5Registration Information6-7Services for Students96Si usted habla español8Tuition & Fees5Veterans Education & Training Center9Web Registration Tips4Where to Call95Workforce Services9
Course Listings
Languages) Anatomy & Physiology
and Refinishing.17Automotive Service Technology.18Biology.19Business Administration22Business Technology.25Chemistry.26College and Career Guidance28Communication Studies29Computer Science30Computer-Aided Drafting Technology.31Cooperative Work Experience32Criminal Justice/Corrections.32

Digital Media Communications34	
Early Childhood Education	
Economics	
Education	
Educational Focus Area	
Electronics & Microelectronics	
Emergency Medical Technology	
Engineering	
English for Speakers of Other Languages 39	
English Literature/Composition43	
Environmental Science	
Ethnic Studies	
Family Studies	
Fire Science (Wildland)	
First Year Experience	
Food & Nutrition	
French (see World Languages)	
Gardening (see Horticulture)	
GED-General Education Development 46	
General Science	
Geographic Information Systems (GIS) 47	
Geography	
Geology	
German (see World Languages)	
Gerontology	
Greenhouse (see Horticulture)	
Health	
Health and Fitness	
Health Professions	
High School Diploma	
History	
Horticulture/Arboriculture/Landscape/	
Organic Farming51	
Human Services53	
Humanities	
Industrial Maintenance Technology55	
Journalism	
Landscape (see Horticulture)	
Library	
Machine Tool Technology56	
Manufacturing Technology	
Mathematics	
Media Studies (see Digital Multimedia	
Communications)	
Medical Assistant60	
Medical Billing and Coding61	
Microbiology	
Microelectronics	
Music	
Music: Individual Lessons -	
Non-Music Majors	
Wusic: Individual Lessons - Year 1 67	
Music: Individual Lessons - Year 2 69	

#### Nursery (see Horticulture) Organic Farming (see Horticulture) Philosophy ......74 Phlebotomy .....74 Physical Education ......74 Renewable Energy Technology......77 Sign Language (see World Languages) Small Business Development Center .... 78 Spanish (see World Languages) Speech (see Communication Studies) Water and Environment Technology. . . . . 81

<b>Registration Resources 6-7</b> Registration resources and helpful information
<b>Financial Matters5</b> Tuition and fees, payment options, financial aid, scholarships and more
<b>Si Habla Español8</b> Para más información sobre clases de inglés y otros materias servicios, ver página 38
<b>Course Listings 15-88</b> Credit and non-credit courses offered this term
Faculty Advisors94 Where to Call95

#### **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.

CLASS START/END DATES + FINANCIAL DEADLINES *	WINTER TERM 2025	SPRING TERM 2025	SUMMER TERM 2025
Financial aid: All required CCC financial aid documentation due to ensure funding for term	Sept. 23	Jan. 6	March 31
Registration begins	Nov. 12	Feb. 24	May 12
Classes begin	Jan. 6	March 31	June 23
Last day to add classes without instructor consent	Instructor	consent required once cou	rse begins
Last day to drop a class with a refund (see p. 5 for more info)	Jan. 19	April 13	July 6
Last day to drop classes and receive a "W" automatically	Feb. 28	May 23	August 15
Last day to submit petition for graduation	Feb. 14	April 9	August 1
Last day to change grading option	Mar. 14	June 6	August 29
Account balance due: \$100 non-payment fee applied if not paid	Feb. 14	April 9	August 4
Final week	March 17-21	June 9-13	see syllabus
Last day of term	March 22	June 14	Sept. 6
Commencement: GED & Adult High School Diploma		June 13, 2025	
Commencement: College Certificate & Degree		June 13, 2025	

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

#### HOLIDAYS AND CAMPUS CLOSURES

WINTER TERM: Jan. 1 New Years Day, Jan. 20 MLK Jr Day, Feb. 17 Presidents Day

SPRING TERM: May 26 Memorial Day

SUMMER TERM: June 19 Juneteenth July 3 Independence Day

#### **FINAL EXAM SCHEDULE**

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



## 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.



 $\bigcirc$ 

**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.**

5 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.

Como Inscribirse www.clackamas.edu/ espanol

### **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

## 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	<b>\$126</b> 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	<b>\$305</b> 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	<b>\$13</b> per credit	Supports many CCC student activities including athletics, child care, instructional technology and student government.
College Services Fee	<b>\$30</b> 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	<b>\$25</b> 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 Feb. 14 or you will be charged a non-payment fee of \$100 and a hold will be put on your account that will prevent future registration.

## How do I get a refund?

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

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

## Financial Aid: How do I apply?

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

## **Financial Aid questions?**

Email us at finaid@clackamas.edu



Want your refund deposited directly into your bank account? Click on Payment

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



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

## **College Services Fee**

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

## Refunds

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

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

## myClackamas

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

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

If you applied for admission and:

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

If you are a current CCC student and:

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

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

## Registration

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

Registration times:

CREDITS	DATE	TIME
Veterans	Tuesday, Nov. 12, 2024	7 a.m.
80+	Tuesday, Nov. 12, 2024	8 a.m.
60-79	Tuesday, Nov. 12, 2024	Noon
40-59	Wednesday, Nov. 13, 2024	8 a.m.
30-39	Wednesday, Nov. 13, 2024	Noon
20-29	Thursday, Nov. 14, 2024	8 a.m.
6-19	Thursday, Nov. 14, 2024	Noon
1-5	Friday, Nov. 15, 2024	8 a.m.
Open Registration	Friday, Nov. 15, 2024	Noon

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

## 2024-25 CHANGES:

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

## Don't forget!

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

## **REGISTRATION AND IMPORTANT INFORMATION**

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

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

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

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

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

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

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

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



## GRADUATION

## Apply to Graduate

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

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

## **Graduation Ceremonies**

The 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 Jan. 1, 20, and Feb. 17.

#### **Building Hours**

Danianing rivario		
Jan. 2-Mar. 22	M-F	7 a.m10 p.m.
Student Services		
Jan. 6-17	M-Th F	9 a.m6:30 p.m. Remote Services
Jan. 21-Mar. 22	M-Th F	9 a.m5:45 p.m. Remote Services
Advising		
Jan. 6-10	M-W Th F	10 a.m6:15 p.m. 10 a.m4:30 p.m. Remote Services
Jan. 13-Mar. 22	M T-Th F	Remote Services 10 a.m4:30 p.m. Remote Services
Testing & Assess	ment	
Jan. 2-Mar. 22	TBD	
ITS		
Jan. 2-Mar. 22	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 Sept. 2, Nov. 11, 28, and 29.

Building Hours Jan. 2-Mar. 22 Student Services	M-Th	7 a.m10 p.m.
By appointment only wilsonvilleinfo@clack		ll 503-594-0940 or email
Jan. 2-Mar. 22	M-Th	8:30 a.m6:30 p.m.
Advising Center		·
Advising by appoir e-mail apprentices		ease call 503-594-0959 or g@clackamas.edu
Jan. 2-Mar. 22		10 a.m7 p.m. by appointment
Testing & Assessn	nent Cen	ter
Testing by appoint testing.wilsonville@		se call 503-594-0940 or e-mail s. <mark>edu</mark>
Jan. 6-Mar. 22	M-Th	9 a.m5 p.m.

### Where to find food

**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 Winter 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-232	HUMAN ANATOMY & PHYSIOLOGY II	4 CREDITS
BI-232L	HUMAN ANATOMY & PHYSIOLOGY II LAB	0 CREDIT
Chemistry		
CH-112	CHEMISTRY FOR HEALTH SCIENCES	4 CREDITS
CH-112L	CHEMISTRY FOR HEALTH SCIENCES LAB	0 CREDIT
College an	d Career Guidance	
HD-153	MANAGING CONFLICT IN YOUR LIFE	1 CREDIT
HD-154	BUILDING SELF-CONFIDENCE	1 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-120	INTRODUCTION TO COURTS	3 CREDITS
CJA-134	CORRECTIONAL INSTITUTIONS	3 CREDITS
CJA-170	CAREERS IN CRIMINAL JUSTICE	3 CREDITS
CJA-201	JUVENILE DELINQUENCY	4 CREDITS
CJA-203	CRISIS INTERVENTION	3 CREDITS
CJA-222	PROCEDURAL LAW	3 CREDITS
CJA-280	CRIMINAL JUSTICE/CORRECTIONS/CWE	2-6 CREDITS
CJA-281	CRIMINAL JUSTICE/CORRECTIONS/CWE	2-6 CREDITS

#### **Dental Assistant**

Dental As	Sistant	
DA-102	DENTAL RADIOLOGY II	2 CREDITS
DA-102L	DENTAL RADIOLOGY II LAB	1 CREDIT
DA-105	CLINICAL PROCEDURES II	2 CREDITS
DA-105L	CLINICAL PROCEDURES II LAB	1 CREDIT
DA-108	DENTAL MATERIALS II	2 CREDITS
DA-108L	DENTAL MATERIALS II LAB	1 CREDIT
DA-120	CLINICAL PRACTICUM II	5 CREDITS
Economic	S	
EC-201	PRINCIPLES OF ECONOMICS: MICRO	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
English fo	r Speakers of Other Languages	
ESOL-012	BEGINNING ESOL	0 CREDIT
ESOL-015	BEGINNING READING, WRITING, AND GRAMMAR	0 CREDIT
ESOL-020	UPPER BEGINNING GRAMMAR	0 CREDIT
ESOL-022	UPPER BEGINNING CONVERSATION	0 CREDIT
ESOL-024	UPPER BEGINNING READING & WRITING	0 CREDIT
ESOL-030	INTERMEDIATE GRAMMAR A	0 CREDIT
ESOL-031	INTERMEDIATE GRAMMAR B	0 CREDIT
ESOL-033	INTERMEDIATE CONVERSATION 2	0 CREDIT
ESOL-034	INTERMEDIATE READING & WRITING	0 CREDIT
ESOL-043	UPPER INTERMEDIATE CONVERSATION 2	0 CREDIT
ESOL-044	UPPER INTERMEDIATE READING & WRITING	0 CREDIT
ESOL-046	EDITING FOR BETTER WRITING	0 CREDIT
ESOL-050	ADVANCED GRAMMAR A	0 CREDIT
ESOL-053	ADVANCED COMMUNICATION SKILLS 2	0 CREDIT
ESOL-082	ASSESS/EVALUATE NEW STUDENTS	0 CREDIT
ESOL-083	EDUCATIONAL PLANNING FOR RETURNING STUDENTS	0 CREDIT
Environme	ental Science	
ESR-172	INTRODUCTION TO CLIMATE CHANGE	4 CREDITS
ESR-172L	INTRODUCTION TO CLIMATE CHANGE LAB	0 CREDIT
	itrition	
Food & Nu		
Food & Nu FN-110	PERSONAL NUTRITION	3 CREDITS

## Clackamas In Your Community

GED-011	GED IN ESPAÑOL	0 CREDIT
GED-015	GED PREPARATION	0 CREDIT
GED-049	LATINO GED & LIFE SKILLS	0 CREDIT
Geology		
G-102	GENERAL GEOLOGY	4 CREDITS
G-102L	GENERAL GEOLOGY LAB	0 CREDIT
G-202	GENERAL GEOLOGY	4 CREDITS
G-202L	GENERAL GEOLOGY LAB	0 CREDIT
Gerontolo	gу	
GRN-182	AGING AND THE BODY	3 CREDITS
GRN-280	GERONTOLOGY/CWE	2-6 CREDITS (VAR
Health		
HE-163	BODY & DRUGS I: INTRODUCTION TO ABUSE & ADDICTION	3 CREDITS
Health Pro	ofessions	
HP-100	HEALTHCARE PROVIDER BLS/CPR, FIRST AID/BLOODBORNE PATHOGENS	1 CREDIT
HP-110	MEDICAL TERMINOLOGY	4 CREDITS
HP-130	COMMUNICATIONS AND ETHICAL PRACTICES IN HEALTHCARE	2 CREDITS
	SETTINGS	
High Scho		
-	SETTINGS	0.5 CREDIT
<b>High Scho</b> ASE-042 XASE-0001	SETTINGS I Diploma (AHSD)	0.5 CREDIT 0 CREDIT
ASE-042 XASE-0001	SETTINGS <b>DI Diploma (AHSD)</b> JOB SKILLS COMPETENCY LAB BASIC ESSENTIAL SKILLS SUPPORT	
ASE-042	SETTINGS <b>DI Diploma (AHSD)</b> JOB SKILLS COMPETENCY LAB BASIC ESSENTIAL SKILLS SUPPORT	
ASE-042 XASE-0001 Mathemat	SETTINGS <b>IDI Diploma (AHSD)</b> JOB SKILLS COMPETENCY LAB BASIC ESSENTIAL SKILLS SUPPORT <b>ics</b>	0 CREDIT
ASE-042 XASE-0001 Mathemat MTH-020	SETTINGS DI Diploma (AHSD) JOB SKILLS COMPETENCY LAB BASIC ESSENTIAL SKILLS SUPPORT ics FUNDAMENTALS OF ARITHMETIC II	0 CREDIT 4 CREDITS 4 CREDITS
ASE-042 XASE-0001 Mathemat MTH-020 MTH-060	SETTINGS OI Diploma (AHSD) JOB SKILLS COMPETENCY LAB BASIC ESSENTIAL SKILLS SUPPORT ics FUNDAMENTALS OF ARITHMETIC II ALGEBRA I	0 CREDIT 4 CREDITS 4 CREDITS 4 CREDITS
ASE-042 XASE-0001 Mathemat MTH-020 MTH-060 MTH-065	SETTINGS DIDIPIOMA (AHSD) JOB SKILLS COMPETENCY LAB BASIC ESSENTIAL SKILLS SUPPORT ICS FUNDAMENTALS OF ARITHMETIC II ALGEBRA I ALGEBRA II	0 CREDIT
ASE-042 XASE-0001 Mathemat MTH-020 MTH-060 MTH-065 MTH-095 MTH-111Z	SETTINGS DIPIOMA (AHSD) JOB SKILLS COMPETENCY LAB BASIC ESSENTIAL SKILLS SUPPORT ICS FUNDAMENTALS OF ARITHMETIC II ALGEBRA I ALGEBRA II ALGEBRA III	0 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS
ASE-042 XASE-0001 Mathemat MTH-020 MTH-060 MTH-065 MTH-095	SETTINGS DIPIOMA (AHSD) JOB SKILLS COMPETENCY LAB BASIC ESSENTIAL SKILLS SUPPORT ICS FUNDAMENTALS OF ARITHMETIC II ALGEBRA I ALGEBRA II ALGEBRA III PRECALCULUS I: FUNCTIONS	0 CREDIT 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS
ASE-042 XASE-0001 MTH-020 MTH-060 MTH-065 MTH-095 MTH-111Z MTH-112Z	SETTINGS DIPIOMA (AHSD) JOB SKILLS COMPETENCY LAB BASIC ESSENTIAL SKILLS SUPPORT ICS FUNDAMENTALS OF ARITHMETIC II ALGEBRA I ALGEBRA II ALGEBRA II PRECALCULUS I: FUNCTIONS PRECALCULUS II: TRIGONOMETRY FUNDAMENTALS OF ELEMENTARY MATH I	0 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS
ASE-042 XASE-0001 MTH-020 MTH-060 MTH-065 MTH-095 MTH-111Z MTH-112Z MTH-211	SETTINGS DIPIOMA (AHSD) JOB SKILLS COMPETENCY LAB BASIC ESSENTIAL SKILLS SUPPORT ICS FUNDAMENTALS OF ARITHMETIC II ALGEBRA I ALGEBRA II ALGEBRA II PRECALCULUS I: FUNCTIONS PRECALCULUS II: TRIGONOMETRY FUNDAMENTALS OF ELEMENTARY MATH I	0 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS
ASE-042 XASE-0001 Mathemat MTH-020 MTH-060 MTH-065 MTH-095 MTH-1112 MTH-1122 MTH-211 MTH-211 MEdical A MA-156	SETTINGS DIPIOMA (AHSD) JOB SKILLS COMPETENCY LAB BASIC ESSENTIAL SKILLS SUPPORT ICS FUNDAMENTALS OF ARITHMETIC II ALGEBRA I ALGEBRA II ALGEBRA III PRECALCULUS I: FUNCTIONS PRECALCULUS II: TRIGONOMETRY FUNDAMENTALS OF ELEMENTARY MATH I	0 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS
ASE-042 XASE-0001 MTH-020 MTH-060 MTH-065 MTH-095 MTH-111Z MTH-112Z MTH-112Z MTH-211 MCH-211	SETTINGS DIPIOMA (AHSD) JOB SKILLS COMPETENCY LAB BASIC ESSENTIAL SKILLS SUPPORT ICS FUNDAMENTALS OF ARITHMETIC II ALGEBRA I ALGEBRA II PRECALCULUS I: FUNCTIONS PRECALCULUS I: TRIGONOMETRY FUNDAMENTALS OF ELEMENTARY MATH I SISTEMT	0 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 1 CREDIT 1 CREDIT
ASE-042 XASE-0001 MTH-020 MTH-060 MTH-065 MTH-095 MTH-111Z MTH-112Z MTH-211 MCH-211 MCH-211 MA-156 MA-156L	SETTINGS DIPIOMA (AHSD) JOB SKILLS COMPETENCY LAB BASIC ESSENTIAL SKILLS SUPPORT ICS FUNDAMENTALS OF ARITHMETIC II ALGEBRA I ALGEBRA II ALGEBRA III PRECALCULUS I: FUNCTIONS PRECALCULUS II: TRIGONOMETRY FUNDAMENTALS OF ELEMENTARY MATH I SISTENT PHLEBOTOMY I PHLEBOTOMY I LAB INSURANCE & HEALTH	0 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 1 CREDITS 1 CREDITS 3 CREDITS
ASE-042 XASE-0001 Mathemat MTH-020 MTH-060 MTH-065 MTH-095 MTH-111Z MTH-111Z MTH-112Z MTH-211 MEdical A MA-156 MA-156L MA-160 MA-162	SETTINGS DIPIOMA (AHSD) JOB SKILLS COMPETENCY LAB BASIC ESSENTIAL SKILLS SUPPORT ICS FUNDAMENTALS OF ARITHMETIC II ALGEBRA I ALGEBRA II ALGEBRA II PRECALCULUS I: FUNCTIONS PRECALCULUS I: FUNCTIONS PRECALCULUS II: TRIGONOMETRY FUNDAMENTALS OF ELEMENTARY MATH I SISTEMT PHLEBOTOMY I PHLEBOTOMY I LAB INSURANCE & HEALTH INFORMATION MANAGEMENT EXAMINATION ROOM TECHNIQUES	0 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 1 CREDITS 1 CREDITS 3 CREDITS
ASE-042 XASE-0001 Mathemat MTH-020 MTH-060 MTH-065 MTH-095 MTH-111Z MTH-111Z MTH-112Z MTH-211 Medical A MA-156 MA-156L MA-160 MA-162 MA-162L	SETTINGS  DIPIOMA (AHSD)  JOB SKILLS COMPETENCY LAB BASIC ESSENTIAL SKILLS SUPPORT  iCS  FUNDAMENTALS OF ARITHMETIC II ALGEBRA I ALGEBRA II ALGEBRA II PRECALCULUS I: FUNCTIONS PRECALCULUS II: TRIGONOMETRY FUNDAMENTALS OF ELEMENTARY MATH I  SISTEMT PHLEBOTOMY I LAB INSURANCE & HEALTH INFORMATION MANAGEMENT EXAMINATION ROOM TECHNIQUES II EXAMINATION ROOM TECHNIQUES II	0 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 1 CREDITS 3 CREDITS 1 CREDITS 1 CREDITS 1 CREDITS
ASE-042 XASE-0001 Mathemat MTH-020 MTH-060 MTH-065 MTH-095 MTH-111Z MTH-111Z MTH-112Z MTH-211 MEdical A MA-156 MA-156L MA-160	SETTINGS  DIPIOMA (AHSD)  JOB SKILLS COMPETENCY LAB BASIC ESSENTIAL SKILLS SUPPORT  iCS  FUNDAMENTALS OF ARITHMETIC II ALGEBRA I ALGEBRA II ALGEBRA II PRECALCULUS I: FUNCTIONS PRECALCULUS II: TRIGONOMETRY FUNDAMENTALS OF ELEMENTARY MATH I  SISISTANT  PHLEBOTOMY I PHLEBOTOMY I PHLEBOTOMY I LAB INSURANCE & HEALTH INFORMATION ROOM TECHNIQUES II EXAMINATION ROOM TECHNIQUES IAB II	0 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS 4 CREDITS

## Medical Billing and Coding

medical RI	lling and Coding	
MBC-115	INSURANCE BILLING AND REIMBURSEMENT I	4 CREDITS
MBC-120	INTRODUCTION TO MEDICAL CODING	3 CREDITS
MBC-135	LAW AND ETHICS FOR HEALTHCARE PROFESSIONS	3 CREDITS
Nursing		
NRS-111	FOUNDATIONS OF NURSING IN CHRONIC ILLNESS I	3 CREDITS
NRS-111C	FOUNDATIONS OF NURSING IN CHRONIC ILLNESS I CLINICAL	3 CREDITS
NRS-221	CHRONIC ILLNESS II AND END OF LIFE	4 CREDITS
NRS-221C	CHRONIC ILLNESS II AND END OF LIFE CLINICAL	5 CREDITS
NRS-231	CLINICAL PHARMACOLOGY II	3 CREDITS
NRS-232	PATHOPHYSIOLOGICAL PROCESSES I	3 CREDITS
NUR-100	NURSING ASSISTANT I	6.5 CREDITS
NUR-100C	NURSING ASSISTANT I CLINICAL	0 CREDIT
Philosophy	y .	
PHL-103	CRITICAL REASONING	4 CREDITS
Phlebotom	ıy	
PHB-125	PROFESSIONALISM IN HEALTHCARE	1 CREDIT
PHB-130	PHLEBOTOMY PRACTICUM	5 CREDITS
Psycholog	У	
PSY-101	HUMAN RELATIONS	3 CREDITS
PSY-215	INTRODUCTION TO DEVELOPMENTAL PSYCHOLOGY	4 CREDITS
PSY-219	INTRODUCTION TO ABNORMAL PSYCHOLOGY	4 CREDITS
Religion		
R-211	HISTORY OF THE OLD TESTAMENT	4 CREDITS
Small Busi	iness Development Center	
SBM-011	PROPERTY MANAGEMENT PRE- LICENSE	0 CREDIT
SBM-020	SMALL BUSINESS GREENHOUSE	0 CREDIT
SBM-021	SMALL BUSINESS MANAGEMENT I	0 CREDIT
SBM-021B	SMALL BUSINESS MANAGEMENT I	0 CREDIT
SBM-024B	SUCCESSION PLANNING	0 CREDIT
SBM-028B	SMALL BUSINESS MANAGEMENT I FOR CONSTRUCTION CONTRACTORS	0 CREDIT
SBM-029B	SMALL BUSINESS MANAGEMENT II FOR CONSTRUCTION CONTRACTORS	0 CREDIT
SBM-030	BUSINESS RECOVERY SMALL BUSINESS MANAGEMENT I	0 CREDIT
XSBM-0003	GOING INTO BUSINESS	0 CREDIT
XSBM-0011	QUICKBOOKS PRO: PART I	0 CREDIT

## Clackamas In Your Community

## 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 Instructor Tuiti

Days (M,T,W,TH.F,S,SU)TimeTuitionFeeCrs. Fee

## **COURSE LISTING**

Credit and non-credit Courses offered Winter 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.

ос	ABE-012-07	334768 MTWTH		10-11:50 AM				
	D. GREEN	\$0.00	\$0.00	\$55.00	\$55.00			
	Required: Stu							

#### Anthropology

#### ANT-101 PHYSICAL ANTHROPOLOGY, 4 CREDITS

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

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

OC LCT	ANT-101-01	334777 TTH 10-11:50 AM			
	K. BACA	\$504.00	\$52.00	\$0.00	\$556.00
	Online textbo	ok provided first da	ay of clas	ss.	
ONL LCT	ANT-101-02	338057			
	K. BACA	\$504.00	\$52.00	\$0.00	\$556.00
	Online textbo	ok provided first da	ay of clas	s.	

#### ANT-102 ARCHAEOLOGY & PREHISTORY, 4 CREDITS

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

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

L LCT	ANT-102-01	334783	
	K. BACA	\$504.00 \$52.00 \$0.00	\$556.00
	Online textbo	ok 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	334787 TTH	1-2:50 P	M						
	K. BACA	\$504.00	\$52.00 \$0.00	\$556.00						
	Online textbook provided first day of class.									

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

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

#### Campus Locations:

ONL

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			
Corequisites: CWE-281									
-									

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

oc ANT-280-01 334793 K. BACA \$756.00 \$78.00 \$45.00 \$879.00V Required: Student Petition. Corequisite: Take the following CWE-281-06.

#### Art

Total

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

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

OC LCT	ART-100A-01 3	34939 T		9-11:50 AM	N
	J. IIJIMA	\$126.00	\$13.00	\$125.00	\$264.00
	Focus: Ring Mak	ing. Meets: 1/14	4-2/25.		
OC LCT	ART-100A-02 3	34941 TH		2-4:50 PM	
	J. IIJIMA	\$126.00	\$13.00	\$125.00	\$264.00
	Focus: Jewelry C	Casting Meets: 1	/16-2/27		
OC	ART-100A-03 3	34942 TH		6-8:50 PM	
	J. IIJIMA	\$126.00	\$13.00	\$125.00	\$264.00
	Focus: Basic Jev	velry Making Te	chniques	s. Meets: 1/1	16-2/27.

#### 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 33494	13			
	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	334946	MW		1-3:50 PM	
	C. SIEGFRIED	1	\$504.00	\$52.00	\$80.00	\$636.00
OC LCT	ART-115-02	334951	TTH		1-3:50 PM	
	R. KALMAN		\$504.00	\$52.00	\$80.00	\$636.00

#### ART-119 TIME-BASED ART, 4 CREDITS

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

ONL LCT	ART-119-01	334952			
	K. SIMMONS	\$504.00	\$52.00	\$80.00	\$636.00

ART-121 DIGITAL TOOLS, 2 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/W

Course	Listing												2025/WI
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
An introductory course exploring digital systems used by artists and This course is an introduction to ceramic wheel-throwing methods and the system of the							ng metho	ds					

An introductory course exploring digital systems used by artists and designers to create, see, process and communicate in a quickly changing world. Students will use phone and computer technologies to research ideas and create work related to the self, the world, spaces and places. They will also use technology to develop a personal aesthetic and art practice. Digital experience related to art practice and the world around us will be considered. Projects and critiques will introduce students to cultural themes and principles of design.

OC HYB LCT ART-121-01 334953 T			9-10:50	AM
D. OLSEN	\$252.00	\$26.00	\$40.00	\$318.00

#### 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 3349	56	
	A. SCHROER	\$504.00 \$52.00	\$80.00 \$636.00
	Pick up supplies We	ek 1: Tue, 1/9, 11:0	0-1:00pm.
ONL LCT	ART-131-02 3349	57	
	A. SCHROER	\$504.00 \$52.00	\$80.00 \$636.00
	Pick up supplies We	ek 1: Tue, 1/9, 11:0	0-1:00pm.
oc	ART-131-03 3349	58 MW	9-11:50 AM
	R. KALMAN	\$504.00 \$52.00	\$636.00

#### ART-205 HISTORY OF ART/ROMANESQUE THROUGH BAROQUE, 4 CREDITS

Examines art, culture, and history from the Romanesque through the Baroque periods in art. This is a broad overview of art history that promotes an understanding of art and its history through readings, discussion, papers and exams.

Recommended Prerequisites: WR-121Z

ONL LCT	ART-205-01	334507			
	J. SIMONE	\$504.00	\$52.00	\$21.00	\$577.00

#### ART-232 LIFE DRAWING (FIGURE EMPHASIS), 4 CREDITS

Develop drawing skills, tools, materials, techniques, elements of composition; line, gesture, and value. Students work from direct observation and description of the figure (clothed and nude) describing volume and form on the two-dimensional plane. Assignments include drawing, assigned readings and group critiques of drawing projects. **Prerequisites:** ART-131 or Student Petition

OC LCT	ART-232-01	334970 MW	1-3:50 PM		РМ
	R. KALMAN	\$504.00	\$52.00	\$80.00	\$636.00

#### ART-250 CERAMICS/BEGINNING, 4 CREDITS

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

OC LCT	ART-250-01	334975	ттн		1-3:50 PM	
	N. BRODNICK	I	\$504.00	\$52.00	\$79.00	\$635.00
OC LCT	ART-250-02	334980	TTH		6-8:50 PM	
	N. WARRENS		\$504.00	\$52.00	\$79.00	\$635.00

#### ART-252 CERAMICS/WHEEL-THROWING I, 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 research the history of ceramics and its connection to culture and society. OC LCT ART-252-01 334984 TTH 9-11:50 AM N. BRODNICKI \$504.00 \$52.00 \$79.00 \$635.00 ART-253 CERAMICS/INTERMEDIATE, 4 CREDITS

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

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	334988	ттн		1-3:50 PM	
	N. BRODNICK	l	\$504.00	\$52.00	\$79.00	\$635.00
OC LCT	ART-253-02	334991	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	334993	ттн		9-11:50	AM
	N. BRODNICK	1	\$504.00	\$52.00	\$79.00	\$635.00

#### 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	334998			
	S. ELIOT	\$504.00	\$52.00	\$80.00	\$636.00

#### ART-282 PAINTING: THE FIGURE/BEGINNING, 4 CREDITS

Introduces basic painting tools, materials, techniques, and elements of composition, gesture, value, color and space. Students work from direct observation and description of the figure (clothed and nude) describing volume and form on the two-dimensional plane. Course includes painting, readings and group critiques.

#### Prerequisites: ART-131 or Student Petition

OC LCT	ART-282-01	335005 TTH		9-11:50	AM
	A. SCHROER	\$504.00	\$52.00	\$95.00	\$651.00

#### ART-285 PAINTING: THE FIGURE/INTERMEDIATE, 4 CREDITS

Learn intermediate painting tools, materials, techniques, and elements of composition, gesture, value, color and space. Students work from direct observation and description of the figure (clothed and nude) describing volume and form on the two-dimensional plane. Course includes painting, readings and group critiques.

#### Prerequisites: ART-282 or Student Petition

OC LCT	ART-285-01	335010 TTH		9-11:50	AM
	A. SCHROER	\$504.00	\$52.00	\$95.00	\$651.00

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

Course	Listing					
Course No	Course Title, Credits				Course No	,
	Section No Crs Reg. Instructor	Days (M,T,W,TH.F,S,SU) Tuition Fee	Time Crs. Fee	Total		:
ART-292	SCULPTURE (FIGUR	E EMPHASIS), 4	CREDITS		oc	A

Explores the human form using traditional and contemporary sculpture techniques and concepts. Use of clay, armatures and other sculpture media will be explored. Sculptural design, concepts and craftsmanship will be explored through projects, lectures, and critiques. Students will work from direct observation and source materials (nude and abstract). The human figure and other life forms in the history of sculpture will be examined.

OC LCT	ART-292-01	335012 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	AB-101-01 33481	7 S	8-7:50 PM
	A. DANIEK	\$378.00 \$39.00	\$175.00 \$592.00
	Meets: 1/11, 1/25, 2/3	3, 2/22, & 3/8.	
oc	AB-101-02 33482	24 S	8-7:50 PM
OC	AB-101-02 33482 P. NESBITT	<b>24 S</b> \$378.00 \$39.00	

#### 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.

OC	AB-105-01	334825 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	AB-112-01	334828	F		8-12:20 F	РМ
	C. DAHLSRU	ID-	\$252.00	\$26.00	\$170.00	\$448.00
	RIVERA					

#### 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	AB-113-01	334832 MT		7-12:20	РМ
	M. GRIFFITH M. HOUSE	\$756.00	\$78.00	\$337.00	\$1,171.00

#### AB-123 COLLISION REPAIR WELDING II, 2 CREDITS

Training in light gauge metal repair: Gas Metal Arc Welding (GMAW), Plasma Arc Cutting (PAC), Squeeze Type Resistance Spot Welding (ST-RSW), and other advanced welding techniques specific to collision damage repair.

#### Prerequisites: AB-112

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	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
oc	AB-123-01	334835	F		8-12:20 F	M
	C. DAHLSRUD	)-	\$252.00	\$26.00	\$158.00	\$436.00

2025/W

#### AB-133 COLLISION REPAIR II/STRUCTURAL, 6 CREDITS

Repair major body damage using modern frame repair equipment. Includes repair and replacement of bolt-on, bonded, and welded components using the latest technology. Includes introduction to computerized measuring and damage analysis.

#### Prerequisites: AB-113

oc	AB-133-01	334838 MT		7-12:20	PM
	M. GRIFFITH	\$756.00	\$78.00	\$337.00	\$1,171.00
	M. HOUSE				

#### AB-150 COLLISION REPAIR COMPUTERIZED ESTIMATING -AUDATEX, 2 CREDITS

Provides detailed instruction in the use of modern computerized estimating systems in the collision repair field. Focus is on Audatex software.

#### Prerequisites: AB-149

C

ос	AB-150-01	334842	ттн		1:30 -3:20	РМ
	A. YAGER-RO	UNDS	\$252.00	\$26.00	\$154.00	\$432.00

#### AB-222 COLLISION REPAIR III/ADVANCED STRUCTURAL, 6 CREDITS

Major collision repair with a systems approach: frame and structure, panels, suspension and brakes, electrical and cooling systems. Emphasis on frame and unibody repair, replacement of welded body panels, and diagnosis and repair of related damage.

#### Prerequisites: AB-133

OC	AB-222-01	334845 MT		7-12:20	РМ
	M. GRIFFITH	\$756.00	\$78.00	\$337.00	\$1,171.00
	M. HOUSE				

#### AB-224 COLLISION REPAIR IV/ADVANCED STRUCTURAL, 6 CREDITS

Advanced frame and Unibody repair procedures. Electronic measurement and dimensioning, repair documentation, brakes, suspension, and alignment as they relate to collision repair. **Prerequisites:** AB-222

ос	AB-224-01	334848 MT		7-12:20	РМ
	M. GRIFFITH M. HOUSE	\$756.00	\$78.00	\$337.00	\$1,171.00

#### AB-226 COLLISION REPAIR V/ADVANCED STRUCTURAL, 6 CREDITS

Uses the latest high quality, productive techniques and equipment to repair vehicles to pre-collision condition. Covers the refined collision repair processes for today's workplace.

Prerequisites: AB-224

ос	AB-226-01	334850 MT		7-12:20	РМ
	M. GRIFFITH M. HOUSE	\$756.00	\$78.00	\$337.00	\$1,171.00

#### AB-235 COLLISION REPAIR WELDING III, 2 CREDITS

Aluminum welding for collision damage repair. Gas Metal Arc Welding (GMAW) and Gas Tungsten Arc Welding (GTAW) processes are learned, along with related weld techniques and equipment/safety procedures.

Prerequisites: AB-123

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
OC	AB-235-01	334855	F		8-12:20 P	M
	C. DAHLSRUE RIVERA	)-	\$252.00	\$26.00	\$170.00	\$448.00

#### AB-280 COLLISION REPAIR/CWE, 2-6 CREDITS (VAR)

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

oc

С	AB-280-01	334858

M. HOUSE \$756.00 \$78.00 \$45.00 \$879.00V Required: Student Petition. Corequisite: Take the following CWE-281-06.

#### ABR-125 COLLISION REPAIR/REFINISHING I, 6 CREDITS

Covers shop safety, fire prevention, selection and use of paint products, abrasives, fillers, basic application of primers, sealers, and top coats. **Prerequisite or Corequisite:** AB-112 and AB-113

ос	ABR-125-01	334865 WTH		7-12:20	РМ
	M. GRIFFITH	\$756.00	\$78.00	\$337.00	\$1,171.00
	M. HOUSE				

#### ABR-127 COLLISION REPAIR/REFINISHING II, 6 CREDITS

Application of solvent and waterborne finishes, including spot repairs, color matching, complete refinishing, and problem solving. Introduction to computerized color information retrieval and mixing.

#### Prerequisites: ABR-125

oc	ABR-127-01	334870 WTH		7-12:20	PM
	M. GRIFFITH M. HOUSE	\$756.00	\$78.00	\$337.00	\$1,171.00

#### ABR-129 COLLISION REPAIR/REFINISHING III, 6 CREDITS

Application of solvent and waterborne basecoats and tri-coats and urethane topcoats, using both foreign and domestic refinish systems. Includes complete refinishing, spot and panel painting, color matching and problem solving.

#### Prerequisites: ABR-127

ос	ABR-129-01	334873 WTH		7-12:20	РМ
	M. GRIFFITH	\$756.00	\$78.00	\$337.00	\$1,171.00
	M. HOUSE				

#### ABR-225 PRODUCTION SHOP TECHNIQUES, 6 CREDITS

Designed for students who wish to gain additional hands-on experience in refinishing, using the most up-to-date methods and materials. **Prerequisites:** ABR-129

oc	ABR-225-01	334875 WTH		7-12:20	PM
	M. GRIFFITH M. HOUSE	\$756.00	\$78.00	\$337.00	\$1,171.00

#### ABR-227 RESTORATION PRACTICES, 6 CREDITS

Designed for students who wish to broaden their skills base in the upper end refinish market. Projects will be considerably more challenging, with standards and expectations set higher.

Prerequisites: ABR-225

ос	ABR-227-01	334877 WTH		7-12:20	РМ
	M. GRIFFITH M. HOUSE	\$756.00	\$78.00	\$337.00	\$1,171.00

#### Automotive Service Technology

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,V Tuition	W,TH.F,S,SU) <b>Fee</b>	Time Crs. Fee	Total

2025/W

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.

ос	AM-100-01	334882 MTWTH		7:30 -9:20	AM
	L. BLAHUTA	\$504.00	\$52.00	\$114.00	\$670.00
oc	AM-100-02	339522 MTWTH		1-2:50 PM	l
	L. BLAHUTA	\$504.00	\$52.00	\$114.00	\$670.00
ос	AM-100-02A	339551 MTWTH		1-2:50 PM	l
	L. BLAHUTA	\$504.00	\$52.00	\$114.00	\$670.00
		lent Petition. CTE on contact HS cor			

#### 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

ос	AM-101-01	334895	мтwтн	F	1-5:50 PM	
	N. ROBERTS		\$252.00	\$26.00	\$5.00	\$283.00
	Meets: 1/6-1/1	0.				

#### 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.

ос	AM-106-01	334906	s		8-4:20 PM	
	T. SHOCKLEY	,	\$252.00	\$26.00	\$63.00	\$341.00
	Meets: 1/18, 2	/1, 2/15,	3/1, & 3/1	15.		

#### 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	AM-118-01	334918	THF		6-9:50 PM	
	T. CARLSON		\$504.00	\$52.00	\$121.00	\$677.00
oc	AM-118-02	334919	MTWTH		10-11:50 A	M
	L. BLAHUTA		\$504.00	\$52.00	\$121.00	\$677.00

#### AM-131 SUSPENSION SYSTEMS, 5 CREDITS

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

In this theory and lab course, students will learn the design, construction, service, and repair of front and rear suspension systems, wheels and tires, steering systems, and alignments. Students will service and repair these systems in the hands-on lab.

**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-131-01	334923	мтwтн		1-5:50 PM	
	W. VAN RIPER	1	\$630.00	\$65.00	\$211.00	\$906.00
	Meets: 1/13-2/	13.				
oc	AM-131-02	334924	MTWTH		1-5:50 PM	
oc	<b>AM-131-02</b> W. VAN RIPER		<b>MTWTH</b> \$630.00			\$906.00

#### AM-133 ENGINE SYSTEMS, 5 CREDITS

This course is designed to provide students with the entry-level skills necessary to repair automobile engines. Includes general engine diagnosis; cylinder head and valve train diagnosis and repair; engine block assembly diagnosis and repair; and lubrication and cooling systems diagnosis and repair.

**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

oc	AM-133-01	334925	MTWTH		1-5:50 PM	
	J. LEUCK		\$630.00	\$65.00	\$211.00	\$906.00
	Meets: 1/13-2/	13.				
oc	AM-133-02	334927	MTWTH		1-5:50 PM	
	J. LEUCK		\$630.00	\$65.00	\$211.00	\$906.00
	Meets: 2/17-3/	20.				

#### AM-242 ENGINE PERFORMANCE II, 5 CREDITS

This course is the second of two engine performance courses. In this course the students will receive training in advanced lab scope diagnostics, advanced level scan tool usage, power train reprogramming and the opportunity to do real world diagnostics. On board diagnostics 2 (OBD2) readiness monitors and how they work will be discussed. Training and practical application of all monitored systems of the OBD2 system will be performed.

#### Prerequisites: AM-142

oc	AM-242-01	334929	мтwтн		7-11:50 A	M
	N. ROBERTS		\$630.00	\$65.00	\$211.00	\$906.00
	Meets: 1/6-2/6					
oc	AM-242-02	337985	MTWTH		7-11:50 A	M
oc	<b>AM-242-02</b> N. ROBERTS	337985	<b>MTWTH</b> \$630.00			M \$906.00

#### AM-245 AUTOMATIC TRANSMISSION SYSTEMS, 5 CREDITS

This course covers the theory and physical description of the automatic transmission. The student will have the opportunity to acquire practical experience and learn the proper procedures for overhaul, service, and diagnosis of an automatic transmission.

#### Prerequisites: AM-129

ос	AM-245-01 33798	6 MTWTH	7-11:50 A	M
	D. BLACKMON	\$630.00 \$65.00	\$174.00	\$869.00
	Meets: 1/6-2/6.			
ос	AM-245-02 33493	5 MTWTH	7-11:50 A	M
	D. BLACKMON	\$630.00 \$65.00	\$174.00	\$869.00
	Meets: 2/10-3/13.			

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

2025/W

#### 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-280-01 334	936			
	N. ROBERTS	\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Student	Petition. Core	equisite:	Take the f	following
	CWE-281-06.				•

#### Biology

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

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

#### Corequisites: BI-101L

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

BI-101-01	335015 MW		9-10:20 A	M
E. DEBEY	\$504.00	\$52.00	\$55.00	\$611.00
This section h	nas an in-person l	ab. Coreq	uisite: Take	e the
following BI-1	01L-01.			
BI-101-40	335019			
E. DEBEY	\$504.00	\$52.00	\$55.00	\$611.00
Corequisite: 1	Take the following	BI-101L-	40.	
BI-101-41	335022			
M. ANDURI- F	FLYNN \$504.00	\$52.00	\$55.00	\$611.00
Corequisite: 7	Take the following	BI-101L-	41.	
	E. DEBEY This section h following BI-1 BI-101-40 E. DEBEY Corequisite: T BI-101-41 M. ANDURI- I	E. DEBEY         \$504.00           This section has an in-person la         following BI-101L-01.           BI-101-40         335019           E. DEBEY         \$504.00           Corequisite: Take the following           BI-101-41         335022           M. ANDURI- FLYNN         \$504.00	E. DEBEY         \$504.00         \$52.00           This section has an in-person lab. Corect         following BI-101L-01.           BI-101-40         335019           E. DEBEY         \$504.00         \$52.00           Corequisite: Take the following BI-101L-           BI-101-41         335022           M. ANDURI- FLYNN         \$504.00         \$52.00	E. DEBEY         \$504.00         \$52.00         \$55.00           This section has an in-person lab. Corequisite: Take following BI-101L-01.         BI-101-40         335019           E. DEBEY         \$504.00         \$52.00         \$55.00           Corequisite: Take the following BI-101L-40.         \$504.00         \$52.00         \$55.00

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

Lab course for BI-101

Corequisites: BI-101

ос	BI-101L-01	335023 MW		10:30 -1 <sup>-</sup>	1:50 AM
	E. DEBEY	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite:	Take the followin	g BI-101-0	)1.	
ONL	BI-101L-40	335027			
	E. DEBEY	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite:	Take the followin	ig BI-101-4	10.	
ONL	BI-101L-41	335029			
	M. ANDURI-	FLYNN \$0.00	\$0.00	\$0.00	\$0.00
	Corequisite:	Take the followin	g BI-101-4	1.	
			-		

#### BI-102 GENERAL BIOLOGY; ANIMAL SYSTEMS, 4 CREDITS

An inquiry-based laboratory course focusing on human and animal body systems; including teratogens, Hox genes and hormone mimics in embryonic development. Activities emphasize comparisons across animal phyla to better understand the diversity of life. The class uses student centered activities in a collaborative learning environment to enhance appreciation of the animal kingdom.

#### Corequisites: BI-102L

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

ос	BI-102-01	335032 MW		1-2:20 P	м
	E. DEBEY	\$504.00	\$52.00	\$55.00	\$611.00
	Corequisite: T BI-102L-03.	ake 1 of the follow	ing BI-10	02L-01, Bl	-102L-02,

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,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
oc	BI-102-02	335037			9:20 -10:4	
	S. SOLL Corequisite: 7 BI-102L-03.	Take 1 of		\$52.00 ving BI-10		\$611.00 102L-01,
ос	BI-102-20 K. OSTLUND		\$504.00	\$52.00		<b>1</b> \$611.00
ONL	Corequisite: 7 BI-102-40	335043	•	BI-102L-	20.	
ONL	A. KAPILA Corequisite: 7		\$504.00	\$52.00 BI-102L-	+	\$611.00
ONL	BI-102-41	335044	Ļ			
	A. KAPILA Corequisite: 7	Take the	+	\$52.00 BI-102L-	+	\$611.00
BI-102L	GENERAL B	IOLOGY	; ANIMAI	SYSTE	MS LAB, 0	CREDIT
Lab course	e for BI-102					
Corequisit	t <b>es:</b> BI-102					
ос	BI-102L-01	335046	5 MW		2:30 -3:50	) PM
	E. DEBEY		\$0.00	\$0.00		\$0.00
	Corequisite: 7			ving BI-10		
OC	BI-102L-02	335048		¢0.00	10:50 -12	
	S. SOLL Corequisite: 7	Taka 1 of	\$0.00	\$0.00		\$0.00 12 01
ос	BI-102L-03				1-2:20 PN	
00	TBA	000014	\$0.00	\$0.00		\$0.00
	Corequisite: 1	Take 1 of				
OC	BI-102L-20	335053		Ŭ	7:30 -8:50	
	K. OSTLUND		\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: 7		0	BI-102-2	0.	
ONL	BI-102L-40 A. KAPILA	335058	\$0.00	\$0.00	\$0.00	\$0.00
ONL	Corequisite: 7 BI-102L-41	335059	0	DI-102-4	0.	
ONL	A. KAPILA Corequisite: 7		\$0.00	\$0.00 BI-102-4	\$0.00 1.	\$0.00

#### BI-112 GENERAL BIOLOGY FOR HEALTH SCIENCES, 4 CREDITS

A one-term preparatory course that introduces the Health Occupations student to the scientific method, molecular and cellular biology, principles of inheritance, homeostasis, natural selection, tissues, and organ systems. Topics and skills covered prepare students to enter BI-231 and BI-234.

Corequisites: BI-112L

Recommended Corequisite: CH-112

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

ос	BI-112-01	335061 TTH		11-12:20	D PM
	J. BOWN	\$504.00	\$52.00	\$55.00	\$611.00
	Corequisite:	Take 1 of the follow	ing BI-1	12L-01, B	I-112L-02.
HAR	BI-112-15	335064 MW		9-10:20	AM
	P. JONES	\$504.00	\$52.00	\$55.00	\$611.00
	Corequisite:	Take the following I	BI-112L-	15.	
ONL	BI-112-20	339515			
	S. KELSEY	\$504.00	\$52.00	\$55.00	\$611.00
	Corequisite:	Take the following I	BI-112L-	20.	
ONL	BI-112-40	335068			
	M. ANDURI-	FLYNN \$504.00	\$52.00	\$55.00	\$611.00
	Corequisite:	Take the following I	BI-112L-	40.	

#### BI-112L GENERAL BIOLOGY FOR HEALTH SCIENCES LAB, 0 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, C	redits				
	Section No Instructor	Crs Reg.	Days (M,T Tuition	(,W,TH.F,S,SU) <b>Fee</b>	Time Crs. Fee	Total
Lab course	for BI-112					
Corequisit	es: BI-112					
ос	BI-112L-01	335069	т		1-3:50 PM	
	J. BOWN		\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: T	ake the fo	ollowing	BI-112-01		
oc	BI-112L-02	335077	тн		8-10:50 AM	
	J. BOWN		\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: T	ake the fo	ollowing	BI-112-01		
HAR	BI-112L-15	335080	MW		10:30 -11:50	AM
	P. JONES		\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: T	ake the fo	ollowing	BI-112-15	<b>.</b>	
HAR	BI-112L-20	339516	тн		6-8:50 PM	
	S. KELSEY		\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: T	ake the fo	ollowing	BI-112-20	).	
ONL	BI-112L-40	335084				
	S. KELSEY		\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: T	ake the fo	ollowing	BI-112-40	).	

#### BI-120 INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY, 4 CREDITS

This course is designed to serve students as an overview introductory course to human anatomy and physiology. Material covered includes the structure and function of the human body. Basic chemistry and cell structures are covered, as well as the organization of tissues, organs, and organ systems. Correlations can then be made between this material and disease states commonly encountered in health care. Dissection of animal tissues is required.

Corequisites: BI-120L

HAR	BI-120-15	335085 MW	1-2:20 PM		
	P. JONES	\$504.00	\$52.00	\$55.00	\$611.00

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

Lab course for BI-120

Corequ	isites: BI-120				
HAR	BI-120L-15	335090 MW		2:30 -3:	50 PM
	P. JONES	\$0.00	\$0.00	\$0.00	\$0.00

#### BI-165D NATURAL HISTORY OF THE WESTERN DESERTS, 4 CREDITS

A lecture and lab course studying plants, animals, geology, ecology and environmental issues of western deserts. This intensive nine-day field course travels through western desert regions. Required: Student Petition.

Corequisites: BI-165DL

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

Recommended: One term of college-level science

oc	BI-165D-01	335094 M	6-7:20	PM
	J. BOWN	\$504.00	\$52.00 \$450.00	\$1,006.00
	Required: Stu	Ident Petition. Stud	ents will travel to	Death
	Valley to stud	y desert processes	during Spring Bi	reak (3/22-
	3/31). In addi	tion, 4 meetings ar	e required (6pm-7	7:20pm on
	Monday 1/29	, 2/5, 2/26 and one	meeting TBA). C	ontact
	Jennifer Bow	n (jenb@clackama	s.edu) for more ir	formation.
	Corequisite:	Fake the following I	BI-165DL-01.	

#### BI-165DL NATURAL HISTORY OF THE WESTERN DESERTS LAB, 0 CREDIT

Lab course for BI-165D **Corequisites:** BI-165D

Other Coding Translations: TBA: To be arranged: contact department first class VAR: Variable credit class ESPAÑOL: Enseñado en español LCT: Low-Cost Text

2025/WI

Course No	Course Title, C	redits				
	Section No	Crs Reg.		W,TH.F,S,SU)		
	Instructor		Tuition	Fee	Crs. Fee	Total
OFF	BI-165DL-01	335098	в мтютн	IFSSU		
	J. BOWN		\$0.00	\$0.00	\$0.00	\$0.00
	Required: Stu	ident Pet	ition. Stu	dents will	travel to D	eath
	Valley to stud	y desert	processe	es during	Spring Brea	ak (3/21-
	3/29). Contac	t Jennife	r Bown (j	enb@cla	ckmas.edu)	) for more
	information. C	Corequisi	te: Take	the follow	ing BI-165I	D-01.

#### BI-204 ELEMENTARY MICROBIOLOGY, 4 CREDITS

A lab class with environmental focus. This class explores microscopic life and its importance in the environment and in industry. We also learn about the causes and implications of waterborne pathogens. Labs will provide practice with aseptic techniques and introduce tools and current methodologies used in the study of microorganisms.

ос	BI-204-01	335103 MW		9-11:50	AM
	J. NURMI	\$504.00	\$52.00	\$50.00	\$606.00
	Remote optic	ons available with th	nis sectio	n.	
oc	BI-204-02	339507 TTH		9-11:50	AM
	J. NURMI	\$504.00	\$52.00	\$50.00	\$606.00

## BI-212 GENERAL BIOLOGY FOR SCIENCE MAJORS (ANIMAL BIOLOGY), 5 CREDITS

This course is the second quarter of a three-quarter sequence of a laboratory course for science majors and pre-professional students. It emphasizes an evolutionary approach to animal biology; including animal diversity, development and the effects of Hox genes and hormones, comparisons of animal body systems including human, homeostasis and behavior.

#### Corequisites: BI-212L

Prerequisite or Corequisite: CH-105 or CH-222

oc	BI-212-01 33510	8 MW	8-9:50 AM	
	T. BLACKWELL	\$630.00 \$65.00	\$55.00	\$750.00
ONL	BI-212-02 33511	0		
	T. BLACKWELL	\$630.00 \$65.00	\$55.00	\$750.00
	This section requires	an in-person lab.		

#### BI-212L GENERAL BIOLOGY FOR SCIENCE MAJORS (ANIMAL BIOLOGY) LAB, 0 CREDIT

Lab course for BI-212

Corequisites: BI-212

ос	BI-212L-01 33511	2 TH		8-10:50 AM	
	T. BLACKWELL	\$0.00	\$0.00	\$0.00	\$0.00
oc	BI-212L-02 33511	4 TH		1-3:50 PM	
	T. BLACKWELL	\$0.00	\$0.00	\$0.00	\$0.00

#### BI-231 HUMAN ANATOMY & PHYSIOLOGY I, 4 CREDITS

A lab course designed for students entering the physical education or medically-related fields. Includes body organization, terminology, tissues and systemic study of the integumentary, skeletal and nervous systems. Animal organ dissection required.

Prerequisites: BI-112 (preferred), or BI-101 and BI-102, or BI-211. CH-112 (preferred), or CH-104 and CH-105, or CH-221 and CH-222 Corequisites: BI-231L

OC HYB	BI-231-01	335116 T		2:30 -4:20	РМ
	B. KOP	\$504.00	\$52.00	\$55.00	\$611.00
	Corequisite: 7	Take the following B	8I-231L-(	D1.	
OC HYB	BI-231-20	335123 T		6:30 -9:00	PM
	B. KOP	\$504.00	\$52.00	\$55.00	\$611.00
	Corequisite:	Take the following B	3I-231L-2	20.	

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

Lab course for BI-231

 Campus Locations:
 Di

 HAR: Harmony Community Campus
 C

 OC: Oregon City Campus
 F

 WILS: Wilsonville Training Center
 H

 OFF: Other Off-Campus Location
 F

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
Corequisit	es: BI-231					
ос	BI-231L-01	335124			2:30 -5:20 PM	
	J. GALLEGOS		\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Ta	ake the f	ollowing E	31-231-01	-	
OC	BI-231L-20	335131	TH		6:30 -9:20 PN	1
	J. GALLEGOS		\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Ta	ake the f	ollowing E	31-231-20	).	

2025/W

#### 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

ОС НҮВ	BI-232-01 33	35132 M	10-11:50 AM
	M. PATTERSON	\$504.00 \$52.00	0 \$55.00 \$611.00
	Corequisite: Take BI-232L-03.	e 1 of the following BI-	232L-01, BI-232L-02,
OC HYB	BI-232-02 33	35140 T	1-2:50 PM
	B. KOP	\$504.00 \$52.00	0 \$55.00 \$611.00
	Corequisite: Take BI-232L-03.	e 1 of the following BI-	232L-01, BI-232L-02,
HAR	BI-232-15 33	35144 TTH	9-10:20 AM
	M. PATTERSON	\$504.00 \$52.00	0 \$55.00 \$611.00
	Corequisite: Take	e the following BI-232L	15.
OC HYB	BI-232-20 33	35142 M	6:30 -9:00 PM
	B. KOP	\$504.00 \$52.00	0 \$55.00 \$611.00
	Corequisite: Take	e the following BI-232L	-20.

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

Lab course for BI-232

Corequisites: BI-232

ос	BI-232L-01 335146 I	M		1-3:50 PM	
	M. PATTERSON \$	0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take 1 of th	e follov	wing BI-23	2-01, BI-232-0	)2.
ос	BI-232L-02 335151	Г		3:30 -6:20 PM	Λ
	J. GALLEGOS \$	0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take 1 of th	e follov	wing BI-23	2-01, BI-232-0	)2.
ос	BI-232L-03 335155 \	N		9-11:50 AM	
	M. PATTERSON \$	0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take 1 of th	e follov	wing BI-23	2-01, BI-232-0	)2.
HAR	BI-232L-15 335161	ГТН		10:30 -11:50	AM
	M. PATTERSON \$	0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take the fo	llowing	BI-232-15	5.	
oc	BI-232L-20 335159 \	N		6:30 -9:20 PM	Λ
	J. GALLEGOS \$	00.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take the fo	llowing	BI-232-20	).	

#### BI-233 HUMAN ANATOMY & PHYSIOLOGY III, 4 CREDITS

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

Prerequisites: BI-232 with a C or better

#### Corequisites: BI-233L

OC HYB	BI-233-01	335163 T		9-10:50	AM
	B. KOP	\$504.00	\$52.00	\$55.00	\$611.00
	Corequisite: T	ake the following E	3I-233L-(	01.	

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

Lab course for BI-233

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,) Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
Corequisit	t <b>es:</b> BI-233					
oc	<b>BI-233L-01</b> J. GALLEGOS Corequisite: T		\$0.00	\$0.00 BI-233-0 <sup>-</sup>	<b>11:30 -2:20</b> \$0.00 1.	<b>9 PM</b> \$0.00
BI-234	INTRODUCTO	ORY MIC	CROBIOL	.OGY, 4 0	CREDITS	
science ma requiremen microorgar control. Th collaborativ <b>Prerequisi</b> 221	ctory microbiolo ajors. Includes on the of microorga hisms, immunolo is course emphy ve laboratory en tes: BI-101, BI- tes: BI-234L	character inisms, ir ogy, infe asizes c ivironme	ristics, ph nteractior ction, and ritical thin ent.	ysiology a is betwee I principle king and	and growth n humans a s of microbia analytical sk	nd al ills in a
OC LCT	BI-234-01	335171	і ттн		1-2:20 PM	
	S. SOLL Corequisite: T	ake the	+	\$52.00 BI-234L-(	\$55.00	\$611.00
OC LCT	BI-234-20 M. PLUMMER Corequisite: T	-	\$504.00	\$52.00 BI-234L-2		\$611.00
ONL LCT	<b>BI-234-40</b> S. SOLL Corequisite: T	335176 ake the	\$504.00	\$52.00 BI-234L-4	+	\$726.00
BI-234L	INTRODUCT	ORY MIC	ROBIOL	OGY LA	B, 0 CREDI	r
Lab course	e for BI-234					
Corequisit	es: BI-234					
oc	<b>BI-234L-01</b> S. SOLL Corequisite: T	335178 ake the	\$0.00	\$0.00 BI-234-0 <sup>-</sup>	<b>2:30 -3:50</b> \$0.00	<b>PM</b> \$0.00
ос	BI-234L-20 M. PLUMMER	-	\$0.00	\$0.00	<b>7:30 -8:50</b> \$0.00	<b>PM</b> \$0.00
	Corequisite: T	ake the	followina	BI-234-20	).	

#### **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 335035 MW	8-9:50 AM		
	J. EICHENBERGER \$504.00	\$52.00 \$5.00 \$561.00		
OC HYB	BA-101Z-02 335047 W	10-11:50 AM		
	J. EICHENBERGER \$504.00	\$52.00 \$5.00 \$561.00		
REM	BA-101Z-03 335050 TH	6-7:50 PM		
	K. HEINIG \$504.00	\$52.00 \$48.75 \$604.75		
	Online textbook included in sect	tion fees.		
ONL	BA-101Z-04 335051			
	S. RAHN \$504.00	\$52.00 \$48.75 \$604.75		
Online textbook included in section fees.				

#### 2025/W rse No Course Title, Credits Section No Crs Reg. Days (M,T,W,TH.F,S,SU) Time Instructor Tuition Fee Crs. Fee Total BA-101Z-05 335054 M. MOISO \$504.00 \$52.00 \$48.75 \$604.75 Online textbook included in section fees. BA-101Z-06 335056 C. CHATTERTON \$504.00 \$52.00 \$5.00 \$561.00

#### 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 markdowns; 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

NL.	BA-104-01	335057			
	J. AMAN	\$378.00	\$39.00	\$82.86	\$499.86
	Online textboo	ok included in sed	ction 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 335063	з тн	1-3:50 PM		
	J. SAN-CLAIRE	\$378.00 \$39.00	\$114.99	\$531.99	
	Online textbook includ	ed in section fees			
ONL	BA-111-02 335066	5			
	J. SAN-CLAIRE	\$378.00 \$39.00	\$114.99	\$531.99	
Online textbook included in section fees.					

#### BA-112 GENERAL ACCOUNTING II, 4 CREDITS

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

#### Prerequisites: BA-111 or BA-211Z

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

ONL BA-112-01 335067 J. SAN-CLAIRE \$504.00 \$52.00 \$114.99 \$670.99 Online textbook included in section fees.

#### BA-119 PROJECT MANAGEMENT PRACTICES, 2 CREDITS

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

ONL	BA-119-01	335070				
	C. PLOWMAN		\$252.00	\$26.00	\$0.00	\$278.00
oc	BA-119-02	335072	W		1-2:50 PM	
	C. PLOWMAN		\$252.00	\$26.00	\$0.00	\$278.00

#### BA-120 PROJECT MANAGEMENT FUNDAMENTALS, 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, Credits						
	Section No Instructor	Crs Reg.	Days (M,T, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total	

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

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

ONL	BA-120-01	335074
	S. RAHN	\$504.00 \$52.00 \$0.00 \$556.00

#### 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.

Prerequisites: BA-120 and BA-125

ONL	BA-127-01	335076	
	S. RAHN	\$504.00 \$52.00 \$0.00	\$556.00

#### BA-128 PROJECT MANAGEMENT: LEADERSHIP STRATEGIES, 4 CREDITS

This course is an introductory course for students to explore different leadership styles. Through introspective exercises/assignments, students will have opportunities to find their leadership voice. Topics include the comparisons among various leadership versus management paradigms, mediation and negotiation techniques, employee engagement, team building, mentor-ship, tactical planning, creative decision-making, managing crisis conversations, and emotional intelligence.

OC HYB	B BA-128-01 335079		) TH	4-5:50 PM			
	C. CHATTER1	ON	\$504.00	\$52.00	\$20.00	\$576.00	

#### BA-131 INTRODUCTION TO BUSINESS COMPUTING, 4 CREDITS

Introductory course using Microsoft Word, Excel, Access, and PowerPoint applications to create business documents.

**Required:** Access to the following equipment and software: Personal computer or laptop with MS Windows operating system (preferably Windows 8 or 10), Microsoft Office Professional, internet access (including email); or access to the CCC Dye Academic Computer Lab for completion of coursework

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

ос	BA-131-01	335082 TTH		1-2:50 PM	Λ	
	F. MEYERS	\$504.00	\$52.00	\$130.00	\$686.00	
	Office 2021 ve section fees.	ersion is used. Onl	ine textb	ook include	ed in	
OC HYB	BA-131-02	335089 TH		10-11:50	AM	
	F. MEYERS	\$504.00	\$52.00	\$130.00	\$686.00	
	Office 2021 version is used. Online textbook included in section fees.					

Course No	Course Title, C	redits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	N,TH.F,S,SU) <b>Fee</b>	Time Crs. Fee	Total
REM	BA-131-03	335091	М		6-8:20 PM	
	J. AMAN		\$504.00	\$52.00	\$130.00	\$686.00
	Office 2021 ve section fees.	ersion is u	used. Onli	ine textbo	ook include	d in
ONL	BA-131-04	335093				
	B. FORNEY		\$504.00	\$52.00	\$130.00	\$686.00
	Office 2021 ve section fees.	ersion is u	used. Onli	ine textbo	ook include	d in
ONL	BA-131-05	335096				
	T. FRANK		\$504.00	\$52.00	\$130.00	\$686.00
	Office 2021 ve section fees.	ersion is u	used. Onli	ine textbo	ook include	d in
ONL	BA-131-06	335097				
	D. HEINIG		\$504.00	\$52.00	\$130.00	\$686.00
	Office 2021 ve section fees.	ersion is u	used. Onli	ine textbo	ook include	d in

#### BA-177 PAYROLL ACCOUNTING, 3 CREDITS

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	335099	)			
	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

ONL	BA-205-01	335100	1			
	J. HERNAND	EZ	\$504.00	\$52.00	\$48.30	\$604.30
	Online textbo	ok includ	ed in sect	ion fees.		

#### BA-206 MANAGEMENT FUNDAMENTALS, 4 CREDITS

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

Prerequisites: WRD-090 or placement in WRD-098

Recommended Prerequisites: BA-101Z and BA-251

ONL	BA-206-01	335102			
	S. PARKER	\$504.00	\$52.00	\$0.00	\$556.00

#### BA-208 EMPLOYEE AND LABOR RELATIONS, 4 CREDITS

Provides a legal and historical overview of employee and labor relations in both union and non-union environments. Presents a realistic picture of collective bargaining and labor relations situations and highlights contemporary issues in employee relations, unions, bargaining units, and employee group representation.

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,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total	
ONL	BA-208-01	335106	-				
	M. MOISO		\$504.00	\$52.00	\$113.15	\$669.15	
	Online textbo	ok includ	ed in sect	tion fees.			

#### BA-211Z PRINCIPLES OF FINANCIAL ACCOUNTING, 4 CREDITS

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

Prerequisites: BA-101Z and BA-131

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

OC HYB	BA-211Z-01	335109 T	1-3:50 PM	
	I. SETO	\$504.00 \$52.00	\$60.00 \$	616.00
	Online textbo	ok included in section fees		
ONL	BA-211Z-02	335118		
	I. SETO	\$504.00 \$52.00	\$60.00 \$	616.00
	Online textbo	ok 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

OC HYB	BA-213Z-01	339538 M		9-11:50 A	M
	I. SETO	\$504.00	\$52.00	\$118.78	\$674.78
	Online textbo	ok included in sect	ion fees.		
ONL	BA-213Z-02	335120			
	J. SAN-CLAIF	RE \$504.00	\$52.00	\$118.78	\$674.78
	Online textbo	ok included in sect	ion fees.		

#### BA-216 COST ACCOUNTING, 4 CREDITS

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

ON

NL	BA-216-01	335127			
	T. FRANK	\$504.00	\$52.00	\$114.98	\$670.98
	Online textboo	ok included in sect	ion fees.		

#### 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	335128		
	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

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	Course Title, Credits				
	Section No Instructor	Crs Reg.	Days (M,T,) Tuition	N,TH.F,S,SU) Fee	Time Crs. Fee	Total
ONL LCT	BA-223-01	335129				
	S. PARKER		\$504.00	\$52.00	\$5.00	\$561.00

2025/WI

#### 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 335135

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.

ONL	BA-226-01	335139	
	M. MOISO	\$504.00 \$52.00 \$48.30 \$604	.30
	Online textbo	ok 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	BA-228-01	339562			
	T. FRANK	\$378.00	\$39.00	\$111.25	\$528.25
	Online textbo	ok included in sect	ion fees.		

#### BA-239 ADVERTISING, 4 CREDITS

Emphasizes a strategic and integrated approach to promotion where traditional and non-traditional techniques of promotion are explored. The relationship and role of advertising to marketing will be stressed throughout the course.

Recommended Prerequisites: BA-101Z, and WRD-090 or placement in WRD-098

ONL	BA-239-01	335145				
	J. EICHENBE	RGER \$5	504.00	\$52.00	\$5.00	\$561.00

#### BA-251 SUPERVISORY MANAGEMENT, 3 CREDITS

Addresses the role and responsibilities of the first-line supervisor or manager. Includes planning and controlling, dealing with change, performance management, leadership, decision-making, communication, and managing teams.

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

ONL	BA-251-01	335147			
	S. PARKER	\$378.00	\$39.00	\$0.00	\$417.00

#### BA-256 INCOME TAX ACCOUNTING, 4 CREDITS

Detailed review of the federal tax structure, as it relates to the preparation of individual tax returns, including those with business and investment activities. This course briefly overviews corporate tax returns.

#### Prerequisites: BA-211Z or financial accounting experience

 BA-256-01
 335153

 J. SAN-CLAIRE
 \$504.00
 \$52.00
 \$114.99
 \$670.99

 Online textbook included in section fees.

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

ONL

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

#### **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

ONL	BA-264-01	335154
	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

OC HYB	BA-268-01	339569 TH		4-5:50 PM	
	S. RAHN	\$378.00	\$39.00	\$5.00	\$422.00
	Required: Stu	dent Petition.			

#### 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	335157	,			
	C. CHATTER	ΓON	\$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	335158		
	S. PARKER	\$756.00	\$78.00 \$45.00	\$879.00V
		Ident Petition. Cor	equisite: Take the	following
	CWE-281-06.			
ONL	BA-280-02	335165		
	B. FORNEY	\$756.00	\$78.00 \$45.00	\$879.00V
	Required: Stu CWE-281-06.	ident Petition. Cor	equisite: Take the	following
BA-285	HUMAN REI	ATIONS IN BUSH		9

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

	20	)25	/

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
		•	application of hum		

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	335166
	M. MOISO	\$504.00 \$52.00 \$48.75 \$604.75
	Online textbo	ok included in section fees.
ONL	BA-285-02	335168
	S. PARKER	\$504.00 \$52.00 \$5.00 \$561.00

#### **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	335169			
	S. SIMMONS	\$252.00	\$26.00	\$10.00	\$288.00
ONL	BT-120-02	335170			
	S. SIMMONS	\$252.00	\$26.00	\$10.00	\$288.00

#### BT-121 DATA ENTRY, 1 CREDIT

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

ONL	BT-121-01	335172			
	S. SIMMONS	\$126.00	\$13.00	\$10.00	\$149.00
ONL	BT-121-02	335173			
	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	335174			
	S. SIMMONS	\$252.00	\$26.00	\$10.00	\$288.00
ONL	BT-122-02	335180			
	S. SIMMONS	\$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	339580			
	S. SIMMONS	\$378.00	\$39.00	\$10.00	\$427.00

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

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

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	335181			
	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

REM	BT-160-01	339579 TH		10-11:50	AM
	F. MEYERS	\$378.00	\$39.00	\$119.99	\$536.99
	Office 2019 vo section fees.	ersion is used. Onl	ine textb	ook include	ed in

#### BT-216 OFFICE PROCEDURES, 4 CREDITS

Applies critical thinking, problem solving, and collaborative learning skills and knowledge to business office operations. Operational areas include communications, technology, records management, safety, travel, meeting management, mail procedures, reprographics, and career planning.

Prerequisites: BA-131

ONL	BT-216-01	335186			
	B. FORNEY	\$504.00	\$52.00	\$10.00	\$566.00

## 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 335191 TBA \$630.00 \$65.00 \$50.00 \$745.00 Each student is required 3 hours of lab time in DJ-242 per week. The available lab hours are W & F: 9 AM- 4 PM, TH 9 AM-8 PM For further information, please e-mail the instructor at george.burgess@clackamas.edu. Corequisite: Take the following CH-104L-40, CH-104S-40.

#### CH-104L INTRODUCTORY CHEMISTRY LAB, 0 CREDIT

Lab course for CH-104

Corequisites: CH-104 and CH-104S

## 2025/W Days (M,T,W,TH.F,S,SU) Time

	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
oc	CH-104L-40	335197	TBA			
	TBA		\$0.00	\$0.00	\$0.00	\$0.00
	Each student i week. The ava AM-8 PM For f at george.burg following CH-1	ilable lat urther in ess@cla	o hours ar formation ackamas.e	e W & F , please du. Cor	: 9 AM- 4 PN e-mail the in	1, TH 9 structor

#### CH-104S INTRODUCTORY CHEMISTRY SEMINAR, 0 CREDIT

Seminar course for CH-104

Course No Course Title, Credits

		Corequisites:	CH-104	and	CH-1	04L
--	--	---------------	--------	-----	------	-----

1-1045-40	335198	тн		2-2:50 PM	
3A		\$0.00	\$0.00	\$0.00	\$0.00
ach student is	s require	d 3 hours	of lab tir	ne in DJ-242 p	er
eek. The ava	ilable lab	hours ar	e W & F:	9 AM- 4 PM,	TH 9
M-8 PM For f	urther in	formation,	please	e-mail the instr	uctor
george.burg	ess@cla	ckamas.e	du. Core	equisite: Take	the
llowing CH-1	04-40, C	H-104L-4	0.		
	3A ach student is eek. The ava M-8 PM For f george.burg	BA ach student is require eek. The available lab M-8 PM For further in george.burgess@cla	3A \$0.00 ach student is required 3 hours eek. The available lab hours are M-8 PM For further information, george.burgess@clackamas.e	3A \$0.00 \$0.00 ach student is required 3 hours of lab tir eek. The available lab hours are W & F: M-8 PM For further information, please	A \$0.00 \$0.00 \$0.00 ach student is required 3 hours of lab time in DJ-242 p eek. The available lab hours are W & F: 9 AM- 4 PM, M-8 PM For further information, please e-mail the instr george.burgess@clackamas.edu. Corequisite: Take f

#### 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

ос	CH-105-01 3	335200 MW	2-3:20 PN	Λ
	G. BURGESS	\$630.00	\$65.00 \$50.00	\$745.00
	Each student is	required 3 hours	s of lab time in DJ-2	42 per
	week. The avail	able lab hours ar	re W & F: 9 AM- 4 F	PM, TH 9
	AM-8 PM For fu	rther information	, please e-mail the	instructor
	at george.burge	ss@clackamas.e	edu. Corequisite: Ta	ake the
	following CH-10	5S-01, CH-105L	-01.	
ONL	CH-105-40 3	335202		

G. BURGESS \$630.00 \$65.00 \$745.00 Each student is required 3 hours of lab time in DJ-242 per week. The available lab hours are W & F: 9 AM- 4 PM, TH 9 AM-8 PM For further information, please e-mail the instructor at george.burgess@clackamas.edu. Corequisite: Take the following CH-105S-01, CH-105L-01.

#### CH-105L INTRODUCTORY CHEMISTRY LAB, 0 CREDIT

#### Lab course for CH-105

Corequisites: CH-105 and CH-105S

001040		
ос	CH-105L-01 335203 TBA	
	G. BURGESS \$0.00 \$0.00 \$0	0.00
	Each student is required 3 hours of lab time in DJ-242 per	
	week. The available lab hours are W & F: 9 AM- 4 PM, TH	9
	AM-8 PM For further information, please e-mail the instruct	tor
	at george.burgess@clackamas.edu. Corequisite: Take the	)
	following CH-105-40, CH-105S-01.	

#### CH-105S INTRODUCTORY CHEMISTRY SEMINAR, 0 CREDIT

Seminar course for CH-105

Corequisites: CH-105 and CH-105L

ос	CH-105S-01	335204 TH		1-1:50 PM	
	G. BURGESS	\$0.00	\$0.00	\$0.00	\$0.00
	week. The avail AM-8 PM For fu at george.burge	required 3 hours lable lab hours ar urther information ess@clackamas.e H-105-01, CH-10	e W & F , please du. Core	: 9 AM- 4 PM, e-mail the ins equisite: Take	TH 9 tructor

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, Credits Course No. Course Title Credite Section No Crs Reg. Days (M,T,W,TH.F,S,SU) Time Instructor Tuition Fee Crs. Fee Total 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 Coreauisite: BI-112

ос	CH-112-01	335206 MW	1-2:20 F	M
	TBA	\$504.00	\$52.00 \$50.00	\$606.00
		nas an in-person lat owing CH-112L-01,		requisite:
ONL	CH-112-15	335208	011-1122-02.	
	E. FRANCIS	\$504.00	\$52.00 \$50.00	\$606.00
	Corequisite:	Take the following C	CH-112L-15.	
ONL	CH-112-20	339517		
	TBA	\$504.00	\$52.00 \$50.00	\$606.00
	Corequisite:	Take the following C	H-112L-20.	
ONL	CH-112-40	335209		
	TBA	\$504.00	\$52.00 \$50.00	\$606.00
	Corequisite:	Take the following C	H-112L-40.	
CH-112L	CHEMISTRY	FOR HEALTH SC	IENCES LAB, 0 C	REDIT
Lab cours	e for CH-112			
Corequisi	tes: CH-112			
00	CH-112L-01	335210 W	9-11-50	лм

ос	CH-112L-01	335210 W		9-11:50 AM	
	TBA	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: T	ake the following	CH-112-	01.	
OC	CH-112L-02	335213 TH		1-3:50 PM	
	TBA	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: T	ake the following	CH-112-	01.	
HAR	CH-112L-15	335215 TH		1-3:50 PM	
	E. FRANCIS	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: T	ake the following	CH-112-	15.	
HAR	CH-112L-20	339518 W		6-8:50 PM	
	TBA	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: T	ake the following	CH-112-	20.	
ONL	CH-112L-40	335217			
	TBA	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: T	ake the following	CH-112-	40.	

#### CH-221 **GENERAL CHEMISTRY, 5 CREDITS**

Transfer lab course for science, engineering, and professional majors. Covers the nature of chemistry, atomic theory, electron configuration, structure, bonding, properties, composition and nomenclature of covalent and ionic substances. Introduces organic chemistry and biochemistry topics.

Prerequisites: CH-104 and CH-105, or CH-150, with a C or better; or a year of high school chemistry within five academic years of beginning CH-221 (passed all terms with C or higher) Corequisites: CH-221L and CH-221S

oc	CH-221-01 3352	218 MWF	10-10:50	AM
	S. MCDONALD	\$630.00 \$65	.00 \$45.00	\$740.00
	Corequisite: Take the	ne following CH-2	21S-01, CH-22	21L-01.
ONL	CH-221-40 3352	220		
	D. MYERS	\$630.00 \$65	.00 \$45.00	\$740.00
	This section has an	in-person lab and	d seminar requ	iirement.
	Corequisite: Take the	ne following CH-2	21S-40, CH-22	21L-40.
	-	-		

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 Litle, Credits				
	Section No Crs Reg. Instructor	Days (M,T,) Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total
ONL	CH-221-41 335221				
	S. MCDONALD	\$630.00	\$65.00	\$45.00	\$740.00
	This section has an in-	person la	b and se	minar requ	irement.
	Corequisite: Take the f				
		•			
CH-221L	GENERAL CHEMIST	RY LAB, (	0 CREDI	т	
Lab course	e for CH-221				
Corequisit	tes: CH-221 and CH-22	IS			
ос	CH-221L-01 335222	т		9-11:50 A	M
	S. MCDONALD	\$0.00	\$0.00	\$0.00	\$0.00
	Coroquisito, Taka tha f				0.01

2025/W

	0	φ0.00	φ0.00	φ0.00	φ0.00
	Corequisite: T	ake the following	CH-221-	01, CH-22	21S-01.
OC	CH-221L-40	335224 T		1-3:50 F	PM
	D. MYERS	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: T	ake the following	CH-221-	40, CH-22	21L-40.
ос	CH-221L-41	335226 W		2-4:50 F	PM
	S. MCDONAL		+	\$0.00	\$0.00
	Corequisite: T	ake the following	CH-221-	41, CH-22	21S-41.

#### CH-221S GENERAL CHEMISTRY SEMINAR, 0 CREDIT

#### Seminar course for CH-221

Corequisites: CH-221 and CH-221L

ос	CH-221S-01 3352	228 TH		9-9:50 A	М
	S. MCDONALD	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take the	ne following	CH-221-	01, CH-22	1L-01.
ос	CH-221S-40 3352	231 W		2-2:50 P	М
	D. MYERS	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take the	ne following	CH-221-	40, CH-22	1L-40.
oc	CH-221S-41 3352	233 W		1-1:50 P	М
	S. MCDONALD	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take the	ne following	CH-221-	41, CH-22	1L-41.

#### CH-222 **GENERAL CHEMISTRY, 5 CREDITS**

A lab course discussing basic concepts of chemical bonding; molecular geometry and bonding theories; gases; intermolecular forces, solids, and liquids; properties of solutions; kinetics; and chemical equilibrium.

#### Prerequisites: CH-221 with a C or better

#### Corequisites: CH-222L and CH-222S

ос	CH-222-01	335234 MWF	10-10:5	0 AM
	D. MYERS	\$630.00	\$65.00 \$50.00	\$745.00
		ake 2 of the follow 01, CH-222S-02.	ving CH-222L-01, (	CH-222L-
oc	CH-222-20	335238 T	6-8:50 F	M
	N. DAS	\$630.00	\$65.00 \$50.00	\$745.00
	Corequisite: T	ake the following	CH-222L-20, CH-2	222S-20.
ONL	CH-222-40	335240		
	J. DU BOULA	Y \$630.00	\$65.00 \$50.00	\$745.00
	This section h	as an in-person la	b and seminar req	uirement.
			CH-222L-40, CH-2	

#### CH-222L GENERAL CHEMISTRY LAB, 0 CREDIT

#### Lab course for CH-222

Corequ	i <b>sites:</b> CH-222 an	d CH-222S			
ос	CH-222L-01	335241 TH		9-11:50 A	М
	D. MYERS	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: 01, CH-222S	Take 2 of the follo <sup>,</sup> -02.	wing CH-	222-01, CH-	222S-
ос	CH-222L-02	335243 TH		1-3:50 PM	l
	D. MYERS	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: <sup>-</sup> 01, CH-222S	Take 2 of the follo <sup>.</sup> -02.	wing CH-	222-01, CH-	·222S-

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.		W,TH.F,S,SU) Fee	Time Crs. Fee	Total
00	CH-222L-20	335245			7-9:50 PM	
	N. DAS		\$0.00	\$0.00		\$0.00
oc	Corequisite: T CH-222L-40	335247		CH-222-2	20, CH-2225- 2-4:50 PM	20.
00	J. DU BOULA		F \$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: T	-	+		+	
CH-2225	GENERAL C	немісті				
	ourse for CH-22			MAN, 0 C		
	es: CH-222 an					
oc	CH-222S-01			<b>*</b> * **	11-11:50 AM	
	D. MYERS		\$0.00		*	\$0.00
	Corequisite: T 01. CH-222L-		the follow		222-01, 00-24	22L-
ос	CH-222S-02		w		1-1:50 PM	
	D. MYERS			\$0.00	\$0.00	\$0.00
	Corequisite: T 02.	ake 1 of	the follow	ving CH-2	222L-01, CH-2	222L-
OC	CH-222S-20	335254	ТН		6-6:50 PM	
	N. DAS	000204	\$0.00	\$0.00		\$0.00
	Corequisite: T 01, CH-222L-		the follow	ving CH-2	222-20, CH-22	22L-
oc	CH-222S-40	335256	F		1-1:50 PM	
	J. DU BOULA			\$0.00	\$0.00	\$0.00
	Corequisite: 1	ake the	following	CH-222-4	40, CH-222L-4	40.
	•		0			

#### CH-242 ORGANIC CHEMISTRY II, 5 CREDITS

Second term of transfer sequence meeting organic chemistry requirement for premedical, dental, veterinary, pharmacy, chiropractic medicine, chemical engineering and biology majors.

#### Prerequisites: CH-241

Corequisites: CH-242L and CH-242S

oc CH-242-01 335258 MW 1-2:20 PM E. FRANCIS \$630.00 \$65.00 \$50.00 \$745.00 Corequisite: Take the following CH-242L-01, CH-242S-01.

#### CH-242L ORGANIC CHEMISTRY I LAB, 0 CREDIT

Lab course for CH-242

Corequisites: CH-242 and CH-242S

ос	CH-242L-01	335260 F		9-11:50	AM
	E. FRANCIS	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: T	ake the following	CH-242-	01, CH-2	42S-01.

#### CH-242S ORGANIC CHEMISTRY II SEMINAR, 0 CREDIT

Seminar course for CH-242

Corequisites: CH-242 and CH-242L

ONL	CH-242S-01 335	5261			
	E. FRANCIS	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take	the following	CH-242-	01, CH-24	2L-01.

#### **College and Career Guidance**

#### EL-103 TAKING EFFECTIVE NOTES, 1 CREDIT

Designed to help students develop effective note-taking skills. Several note-taking systems are introduced and practiced. **Prerequisites:** WRD-080 or placement in WRD-090

ONL	EL-103-13	335259			
	B. MALONEY	\$126.00	\$13.00	\$0.00	\$139.00

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 Instructor	Crs Reg.	Days (M,T,W,TH. Tuition Fee		Time Crs. Fee	Total	
EL-111	1 COLLEGE STUDY SKILLS, 3 CREDITS						

2025/\

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

Prerequisites: WRD-080 or placement in WRD-090

OC HYB	EL-111-01	335262	т		1-2:50 P	M
	B. MALONEY		\$378.00	\$39.00	\$15.00	\$432.00
	Meets: 1/21-3/	22.				

#### 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	335367	,			
	J. GINSBURG		\$756.00	\$78.00	\$0.00	\$834.00V
	Required: Stud	dent Peti	ition.			

#### 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	335368 MW		9-10:20 AM	
	TBA	\$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	335371				
	J. CORTES		\$378.00	\$39.00	\$10.00	\$427.00
	Meets: 1/27-3/	/21.				

#### HD-146 VALUES CLARIFICATION - THE TALK YOU WALK, 1 CREDIT

Helps students examine beliefs, attitudes, and values behind decisions and actions. The students will examine whether behavior matches their stated beliefs, evaluate the consequences of choices, and focus on clarifying a personal value system.

ONL	HD-146-01	335373
	T. BOYLE-	\$126.00 \$13.00 \$10.00 \$149.00
	GALESTIAN	TZ
	Meets: 1/22-	2/3. Contact: counseling@clackamas.edu.

#### HD-153 MANAGING CONFLICT IN YOUR LIFE, 1 CREDIT

Introduction to managing conflict in a positive and efficient way. Students will examine personal beliefs about conflict and become familiar with techniques for effective problem solving.

HAR	HD-153-30	335377	F S		6-8:50 PM 9-4:50 PM	
	T. BOYLE- GALESTIANTZ Meets 1/31 & 2	2	\$126.00 act: coun	• • • • •	,	\$149.00 du.

#### HD-154 BUILDING SELF-CONFIDENCE, 1 CREDIT

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

HAR	HD-154-30	335382 F		6-8:50 I	РМ
		S		9-4:50 I	РМ
	TBA	\$126.00	\$13.00	\$10.00	\$149.00
	Meets: 3/7 &	3/8. Contact: couns	seling@d	lackama	s.edu.

#### HD-202 LIFE TRANSITIONS, 3 CREDITS

Examines process and stages of life transitions. Helps re-entry adults identify personal strengths and barriers related to success in education and employment. Offers opportunities to practice interpersonal skills. Provides information about CCC campus and community resources which can assist students in reaching their goals.

#### Corequisites: HD-208

OC HYB	HD-202-01	335386 T		10-11:50 AM			
	L. NIELSON	\$0.00	\$0.00	\$40.00	\$40.00		
	Meets: 1/23-3	3-22.					

#### HD-208 CAREER & LIFE PLANNING, 3 CREDITS

Helps re-entry adults identify interests, abilities, values, and transferable skills and apply this information to goal setting and career decisions. Students identify and explore options for training, education, and employment. Covers job search skills such as interviewing, resume writing, and developing a career portfolio. Each student develops an action plan identifying goals and next steps.

#### Corequisites: HD-202

OC HYB	HD-208-01	D-208-01 335390 TH		10-11:50 AM			
	C. SIMS	\$0.00	\$0.00	\$40.00	\$40.00		
	Meets: 1/23-	3/22.					

#### HD-221 LEADERSHIP AND BUILDING COMMUNICATIONS SKILLS, 2 CREDITS

Develops leadership skills with an emphasis on navigating challenging conversations. Addresses finding common vision and goals, managing conflict, and collaboration within interpersonal communication. Promotes development of equitable spaces for inclusive conversations. Required for some members of CCC's Associated Student Government. Highly recommended for Peer Assistants, New Student Mentors, and workstudy students in Student Services departments. Also recommended for club leaders.

oc	HD-221-03	335395	М		3-4:50 PM	
	M. BAKER		\$252.00	\$26.00	\$0.00	\$278.00
REM	HD-221-04	335397	ТН		8-9:50 AM	
	J. GINSBURG		\$252.00	\$26.00	\$0.00	\$278.00

#### **Communication Studies**

## 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.

OC LCT	COMM-100Z- 01	334568 MW		3-4:50 PN	1
OC LCT	L. HANN COMM-100Z-	\$504.00 <b>334570 TTH</b>	\$52.00	\$0.00 <b>10-11:50</b>	\$556.00 AM
	<b>02</b> L. HANN	\$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, Credits Section No Crs Reg. Days (M,T,W,TH.F,S,SU) Time Instructor Tuition Fee Crs. Fee Total OC LCT 1-2:50 PM COMM-100Z- 339427 TTH 03 L. HANN \$504.00 \$52.00 \$0.00 \$556.00

2025/W

#### 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**

OC LCT	COMM-111Z-	334574	MW		8-9:50 AM	
	01 TBA COMM-1117-		\$504.00	\$52.00	\$20.00	\$576.00
REM LCT	CONNIN-TTTZ-	334584	MW		8-9:50 AM	
00107	J. SMITH	004500	\$504.00	\$52.00	\$20.00	\$576.00
OCLO	COMM-111Z- 03	334586	IIH		8-9:50 AM	
	M WILLIAMS		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	M. WILLIAMS COMM-111Z-	334588	MW	Ψ02.00	10-11:50 4	M
	J. HULT		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	COMM-111Z-	334589	MW		10-11:50 A	M
	05					
	A. SAMBOR	~~	\$504.00	\$52.00	\$20.00	\$576.00
REM LCT	COMM-111Z- 06	334590	MW		10-11:50 A	M
	J. SMITH		\$504.00	\$52.00	\$20.00	\$576.00
OCICT	COMM-111Z-	334592	<del>, 504.00</del>	ψ32.00	φ20.00 10-11·50 Δ	φ570.00
	07	004002			10 11.00 /	
	<b>07</b> TBA		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	COMM-111Z-	334593	MW		10-11:50 A	M
	A. SAMBOR		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	A. SAMBOR COMM-111Z-	334595	MW		1-2:50 PM	
	09 L. HANN					
OC L CT	COMM-111Z-	334596	φ504.00 <b>TTH</b>	φ52.00	φ20.00 1-2:50 PM	φ <b>570.00</b>
00 201	10	004000			1-2.50 T W	
	A. SAMBOR		\$504.00	\$52.00	\$20.00	\$576.00
REM	COMM-111Z-	339536	TTH		6-7:50 PM	
	11					
	J. SMITH		\$504.00	\$52.00	\$20.00	\$576.00
HAR LCT	COMM-111Z-	334599	TTH		1-2:50 PM	
	<b>30</b> J. HULT		\$504.00	\$52.00	¢20.00	\$576.00
HAR LCT	COMM-111Z-	334601	φ304.00 MW	ψυ2.00	6-7:50 PM	ψ370.00
	31					
	J. NETZER		\$504.00	\$52.00	\$20.00	\$576.00

#### COMM- MASS MEDIA & SOCIETY, 4 CREDITS

#### 212

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

ONL LCT	COMM-212-01 33	4604			
	K. DOSS	\$504.00	\$52.00	\$10.00	\$566.00

## COMM- INTERPERSONAL COMMUNICATION, 4 CREDITS 218Z

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

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

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

REM LCT	COMM-218Z- 01	334606	MW		1-2:50 PM	
HAR LCT	J. SMITH COMM-218Z-		\$504.00 <b>TTH</b>	\$52.00	\$0.00 <b>10-11:50 A</b>	\$556.00 M
	<b>30</b> J. HULT		\$504.00	\$52.00	\$0.00	\$556.00

## COMM- NONVERBAL COMMUNICATION, 4 CREDITS 227

Explores how humans encode and decode nonverbal behavior in the communication process, based on existing research. Examines the influence, interpretation, and/or management of various nonverbal signals, such as appearance, facial expression, body movement, etc. Considers how setting, social roles, gender, and inter/intra-cultural beliefs and values have an effect on interactions among individuals and groups.

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

ос	COMM-227-01 334610 MW 10-11:50 AM					
	A. NELSON LEWIS	\$504.00	\$52.00	\$0.00	\$556.00	
сомм-	SPEECH/CWE, 2-6 C	REDITS				

280

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

· ·					
ONL	COMM-280-01 3	34613			
	L. HANN	\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Stude	nt Petition.			

### **Computer Science**

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

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

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

OC HYB	CS-120-01	334620	W		10-11:5	D AM		
			М		10-11:5	D AM		
	M. SORRENT	INO	\$504.00	\$52.00	\$20.00	\$576.00		
	Section meets Mondays remote via Zoom from 10:00-							
	11:50am. Section meets in-person on campus on							
	Wednesdays	from 10:0	00-11:50a	m.				

#### 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

			•	•		
ос	CS-125H-01	334625	MW		8-9:50 AM	
	M. SORRENTI	NO	\$504.00	\$52.00	\$20.00	\$576.00
ONL	CS-125H-30	334631				
	D. 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

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

2025/W

#### CS-133J FRONT-END JAVASCRIPT I, 4 CREDITS

Design, programming, testing of scripted web pages using JavaScript for client-side applications and to call PHP-based server-side applications. Introduction to fundamental concepts of interactive web pages and server-side connectivity. Covers the Document Object Model (DOM) and programming constructs like variables, operators, functions, control structures, and exception handling. Emphasis on creating and consuming object literals and JSON objects.

#### Prerequisites: CS-125H

OC HYB	CS-133J-01	334632	т		1-2:50 PM	
			тн		1-2:50 PM	
	D. CARINO		\$504.00	\$52.00	\$20.00	\$576.00
	Section meets 2:50pm. Section		,			
	from 1:00-2:50			n on can		ISUAyS

#### CS-135I ADVANCED WEB DESIGN, 4 CREDITS

Plan and publish a professional, standards-based, accessible web site via a variety of tools. Complete market and user-needs analysis to best target site content and design. Create a graphical web site mock-up, then use CSS (including a framework and pre-processors), scripts, and multimedia to realize site goals. Emphasizes professional design techniques.

#### Prerequisites: CS-125H

ос нув	CS-135I-01	334635	w		1-2:50 F	PM
			М		1-2:50 F	PM
	D. CARINO		\$504.00	\$52.00	\$20.00	\$576.00
	Section meet	ts Monday	vs remote	via Zoor	n from 1:0	00-2:50pm.
	Section meet	ts in-perso	on on cam	ipus on V	Vednesda	ays from
	1:00-2:50pm	-				

#### CS-135S MICROSOFT EXCEL, 3 CREDITS

Focuses on advanced spreadsheet capabilities using a current version of Microsoft Excel. Topics include design, construction, and documentation of spreadsheets, use of templates, multiple worksheets, complex formulas, functions and filtering, Pivot Tables, advanced chart features, sorting, database capabilities, finding data, creating subtotals, using lookup tables, finding trends and forecasting, creating and editing macros, validating data, and working with controls.

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

ONL	CS-135S-30	334637			
	D. HEINIG	\$378.00	\$39.00	\$20.00	\$437.00

#### CS-151 NETWORKING 1, 4 CREDITS

This course introduces students to networking architectures, models, protocols, and components. These components facilitate the connection of users, devices, applications, and data through the internet and across modern computer networks. This course, along with CS-152 and CS-153, covers the topics of the Cisco CCNA certification exam.

Prerequisites: CS-140 or CS-160, or Student Petition

HYB LCT CS-151-01		334640	т	1-2:50 PM			
			TH		1-2:50	ΡM	
	R. CARINO		\$504.00	\$52.00	\$20.00		\$576.00
	Section meets 2:50pm. Section from 1:00-2:50	on meets					

#### CS-160 COMPUTER SCIENCE ORIENTATION, 4 CREDITS

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

OC H

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

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

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

ONL	CS-160-01	334644	
	R. ALBERS	\$504.00 \$52.00 \$20.00	\$576.00
ONL	CS-160-02	334647	
	R. ALBERS	\$504.00 \$52.00 \$20.00	\$576.00

#### CS-161 COMPUTER SCIENCE I, 4 CREDITS

Introduction to fundamental concepts of structured programming, including problem solving, algorithm and program design, data types, loops, control structures, subroutines, and arrays. Learn to write structured programs in a high level programming language.

**Prerequisites:** MTH-111Z or placement in MTH-112Z, or 4 years high school math

ос	CS-161-01	334648 TTH		10-11:50	AM
	J. MILLER	\$504.00	\$52.00	\$20.00	\$576.00
ONL	CS-161-02	334653			
	J. MILLER	\$504.00	\$52.00	\$20.00	\$576.00
ONL	CS-161-03	334654			
	J. MILLER	\$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	334655 MW		1-2:50	РМ
	R. ALBERS	\$504.0	0 \$52.00	\$20.00	\$576.00
ONL	CS-162-02	334659			
	R. ALBERS	\$504.0	0 \$52.00	\$20.00	\$576.00

#### CS-181 CMS WEB DEVELOPMENT, 4 CREDITS

Explores creating dynamic and interactive websites via the use of a current content management systems (CMS). Includes installation of CMS/database, working with templates, creating efficient site navigation, enhancing sites using components, modules, plugins, and extensions, including shopping cart utilities and the creation of custom themes.

#### Prerequisites: CS-125H

OC HYB	CS-181-01	334660 T		3-4:20 P	M
		тн		3-4:20 P	M
	D. CARINO	\$504.00	\$52.00	\$20.00	\$576.00
		s Tuesdays remote on meets in-perso 0pm.			

#### CS-205 SYSTEM PROGRAMMING AND ARCHITECTURE, 4 CREDITS

Introduces how high-level software runs on a computer system. Covers C programming and the assembly that C code becomes. Presents the fundamentals of computer architecture and how instructions and data are represented at the machine level. Provides experience analyzing compiled code to build necessary skills for future work in cybersecurity, operating systems, compilers, and other CS topics involving low-level computation.

Prerequisites: CS-162

#### 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, C	Course Title, Credits								
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total				
00	CS-205-01	334663	MW		10-11:50	AM				
	R. ALBERS		\$504.00	\$52.00	\$20.00	\$576.00				

2025/W

#### CS-228 COMPUTER OS MAINTENANCE & REPAIR, 4 CREDITS

An in-depth course in operating system maintenance and troubleshooting. Covers configuration, maintenance, and troubleshooting of desktop and mobile operating systems, the fundamentals of cloud computing, and client network configuration and troubleshooting. This course, in conjunction with CS-227, covers the topics on the CompTIA A + certification exam.

#### Prerequisites: CS-227

ос	oc CS-228-01		334666 MW			9-11:50 AM		
		E. MCBRIDE		\$504.00	\$52.00	\$20.00	\$576.00	

#### CS-240M MACOS ADMINISTRATION, 3 CREDITS

Covers the fundamentals of installing, configuring, troubleshooting, and supporting the macOS operating system. Topics include: installation and setup, user accounts, file systems, data management, applications, network configuration, network services, peripherals, startup and troubleshooting. This course covers the topics of the Apple macOS Support Essentials certification exam.

Prerequisites: CS-140

OC HYB	CS-240M-01	334670 W	10-11:50 AM			
		М	10-11:50 AM			
	R. CARINO	\$378.00	\$39.00	\$20.00	\$437.00	
	11:50am. Sec	Mondays remote tion meets in-person rom 10:00-11:50a	on on ca		:00-	

#### CS-240W WINDOWS DESKTOP ADMINISTRATION, 3 CREDITS

Covers the fundamentals of installing, configuring, troubleshooting, and supporting the Windows operating system. Topics include: installation, managing disks and file systems, file access security, users, profiles and policies, groups, security, backup, remote access, printing, and troubleshooting. This course covers the topics of the Microsoft Configuring Windows Devices certification exam.

#### Prerequisites: CS-140

ο

ОС НҮВ	CS-240W-01 3	34674 T		10-11:50	) AM				
		TH		10-11:50	) AM				
	R. CARINO	\$378.00	\$39.00	\$20.00	\$437.00				
	Section meets Tuesdays remote via Zoom from 10:00-								
	11:50am. Section meets in-person on campus on Thursdays								
	from 10:00-11:50	Dam.							

#### CS-250 DISCRETE STRUCTURES I, 4 CREDITS

Students will be introduced to discrete structures and techniques for computing. The course, which is the first 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: Sets; Graphs and trees; Functions: properties, recursive definitions, solving recurrences; Relations: properties, equivalence, partial order; Proof techniques: inductive proof; Counting techniques and discrete probability.

#### Prerequisites: MTH-251

ос	CS-250-01	334679 TTH		3-4:50 PM	
	J. MILLER	\$504.00	\$52.00	\$20.00	\$576.00

#### CS-275 DATABASE DESIGN, 3 CREDITS

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

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

Focuses on design of a relational database management systems (RDMS). Topics will include database development using the a) requirement, b) design, c) implementation model, database theory from flat table design to relational systems, entity-relationship models, one-to-one, one-to-many, and many-to-many relationships, referential integrity, normalization of tables, database programming and querying with SQL, and database security. Although other platforms may be demonstrated, the majority of work will be done with MySQL Server.

Prerequisites: CS-120 or placement into CS-275

OC HYB	CS-275-01	334684 T	Г 10-11:50 АМ		0 AM
		TH		10-11:5	0 AM
	D. CARINO	\$378.00	\$39.00	\$20.00	\$437.00
	Section meets	s Tuesdays remote	e via Zoo	m from 10	0:00-
	11:50am. Sec	tion meets in-pers	on on ca	mpus on	Thursdays
	from 10:00-11	:50am.			

#### 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	334686
	J. MILLER	\$756.00 \$78.00 \$45.00 \$879.00V
	•	Ident Petition. Restricted to Computer Science equisite: Take the following CWE-281-05.

#### CS-284 NETWORK SECURITY, 3 CREDITS

This course provides an introduction to the core security skills needed for monitoring, detecting, investigating, analyzing and responding to security events, thus protecting systems and organizations from cybersecurity risks, threats and vulnerabilities. This course covers the topics of the Cisco Cybersecurity Fundamentals and Cybersecurity Operations certification exams.

Prerequisites: CS-151

Recommended Prerequisites: CS-240L and CS-240W

ONL	CS-284-30	334691			
	R. CARINO	\$378.00	\$39.00	\$20.00	\$437.00

#### CS-288W WINDOWS NETWORK ADMINISTRATION, 4 CREDITS

Continued coverage of network services and administration using Microsoft Windows Server. Topics include: IPv4 and IPv6 addressing, DNS, DHCP, IPAM, network protection, and remote access. This course covers the topics of the Microsoft Networking with Windows Server certification exam.

#### Prerequisites: CS-279W

ONL	CS-288W-30 33469	94			
	R. MCMILLEN	\$504.00	\$52.00	\$20.00	\$576.00

### Computer-Aided Drafting Technology

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

#### CDT-103 COMPUTER-AIDED DRAFTING I, 3 CREDITS

#### Campus Locations: HAR: Harmony Community Campus

OC: Oregon City Campus WILS: Wilsonville Training Center OFF: Other Off-Campus Location Distance Education Notification: ONL: Online Only REM: Remote (w/ scheduled meetings) HYB: In-person plus online work Introduction to drafting applications using AutoCAD. Instruction includes problem solving, drawing layout, orthographic multi-view projection, line types, geometric construction and current drafting techniques. Use industry standards for CAD drawing, editing, file management, dimensions and notes.

2025/W

Total

Time

Crs. Fee

#### Recommended Prerequisites: CDT-102

ос	CDT-103-01	335185	ттн		12-2:50 PI	M
	C. ANDERSO	N	\$378.00	\$39.00	\$153.75	\$570.75

#### **CDT-108A INTRODUCTION TO SOLIDWORKS, 3 CREDITS**

This course is an introduction to the SolidWorks parametric mechanical software. Students will design 3D solid parts, sheet metal parts and assemblies, and develop 2D documentation from them.

REM	CDT-108A-01	335187 TTH		4:30 -7:20	) PM
	M. ROTUNDO	\$378.00	\$39.00	\$153.75	\$570.75

#### CDT-130 INTRODUCTION TO FUSION, 2 CREDITS

This course is an introduction to parametric modeling in Autodesk Fusion. Students will design 3-D solid parts and assemblies and then develop 2-D drawing and CNC machining processes from these models.

ос	CDT-130-01	335189	MW		12-1:50 PM	Λ
	J. CARLSTON	\$	\$252.00	\$26.00	\$0.00	\$278.00

#### **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-281-01 3345	527 T		11:30 -1	2:20 PM
	M. LAFORCE	\$0.00	\$0.00	\$0.00	\$0.00
	Restricted to Water	Environme	ntal Tech	nology stu	dents.
	Contact: laforce@cl information.	ackamas.e	du or 503	-594-3148	for more
ONL	CWE-281-05 3345	528			
	J. MILLER	\$0.00	\$0.00	\$0.00	\$0.00
	Required: Student F students. Contact: ju 3138.				
ONL	CWE-281-06 3345 J. STAPLETON	<b>529</b> \$0.00	\$0.00	\$0.00	\$0.00

#### **Criminal Justice**

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

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	

#### 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 334510	)			
	T. MUSGRAVE	\$504.00	\$52.00	\$0.00	\$556.00
ONL LCT	CJA-101-02 334511				
	T. MUSGRAVE	\$504.00	\$52.00	\$0.00	\$556.00
ONL LCT	CJA-101-03 334512	2			
	J. LOVELESS	\$504.00	\$52.00	\$0.00	\$556.00

#### CJA-120 INTRODUCTION TO COURTS, 3 CREDITS

Studies the judicial process from arrest through appeals, including search and seizure; interrogation; roles of defense attorneys, prosecutors, juries, grand juries, and judges; plea bargaining and guilty pleas; rights of criminal defendants at trial; appeals and habeas corpus.

HAR LCT	CJA-120-01	334513 T		6-8:50 PM	
	S. HEALY	\$378.00	\$39.00	\$0.00	\$417.00

#### CJA-134 CORRECTIONAL INSTITUTIONS, 3 CREDITS

Analyzes prisons, jails and other correctional institutions. Discusses punishment history and rationale. Identifies the functions of the custodial staff and describes institutional procedures: reception, classification, program assignment and release. Studies prison management systems and examines juvenile facilities.

REM LCT	CJA-134-01	334514 W 10-11:0		00 AM	
	G. RONNING	\$378.00	\$39.00	\$0.00	\$417.00

#### CJA-170 CAREERS IN CRIMINAL JUSTICE, 3 CREDITS

Prepares students for pursuing a career in the Criminal Justice field. Explores careers in the criminal justice system, including law enforcement, the practice of law, courts, corrections, and private security. Addresses hiring processes, promotions, and workplace ethics. Students will begin creating an e-portfolio. As part of the e-portfolio process, students will analyze first year CJA courses and second year fall term CJA courses for assessment purposes. Provides information on choosing Cooperative Work Experience or Service learning placement in preparation for Criminal Justice Capstone course.

**Prerequisites:** CJA-110 with a C or better

HAR HYB	CJA-170-01	334515 M		9:30 -10:20 AM	
201	J. JONES	\$378.00	\$39.00	\$0.00	\$417.00

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

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

ONL	CJA-201-01	334516			
	J. JONES	\$504.00	\$52.00	\$0.00	\$556.00

#### CJA-203 CRISIS INTERVENTION, 3 CREDITS

Examines crisis intervention as it applies to emergency service workers. Includes the psychodynamics of family crisis; alcohol/drug related problems; suicide; sexual assault victims; domestic violence; mentally disturbed individuals; neglected, battered, and abused children.

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, C	redits				
	Section No Instructor	Crs Reg.	Days (M,T,) Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total
HAR HYB LCT	CJA-203-01	334517	М		10:30 -11	:50 AM
201	J. JONES		\$378.00	\$39.00	\$0.00	\$417.00

2025/WI

#### CJA-210 CRIMINAL INVESTIGATION I, 3 CREDITS

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

Prerequisites: CJA-110 with a C or better
---

OC HYB	CJA-210-01	334519	т		9-10:50 Al	N
	T. MUSGRAV	E :	\$378.00	\$39.00	\$0.00	\$417.00

#### CJA-222 PROCEDURAL LAW, 3 CREDITS

This course discusses the constitutional and statutory provisions related to arrest, search and seizure. The course includes use of deadly force, admissions, interrogations, plain view limitations, law of stop and frisk, and officer testimony.

#### Prerequisites: CJA-122 with a C or better

HAR	CJA-222-01	334520 TH		6-8:50 PN	1
	S. HEALY	\$378.00	\$39.00	\$0.00	\$417.00

#### CJA-280 CRIMINAL JUSTICE/CORRECTIONS/CWE, 2-6 CREDITS

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

#### Prerequisites: CJA-170 Corequisites: CWE-281

ONL	CJA-280-01 334	521			
	G. RONNING	\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Student CWE-281-06.	Petition. Core	equisite:	Take the	following

#### 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 334522 TBA \$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 <u>healthsciences@clackamas.edu</u>

#### DA-102 DENTAL RADIOLOGY II, 2 CREDITS

Alternative radiographic techniques are discussed as students develop their knowledge in the following areas: bisecting, extra-oral radiography, techniques for children, and patients with special needs. This course provides an in-depth study of the purpose and uses of panoramic imaging, digital imaging, three-dimensional digital imaging, and occlusal examinations. Identification of radiographic interpretation and infection control procedures will also be covered. Required: Student Petition.

Required: Acceptance into Dental Assistant program Prerequisites: DA-101 with a C or better Corequisites: DA-102L

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

Course	Listing												2023/ 11
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
HAR	<b>DA-102-01</b> K. HIATT	334531		\$26.00	<b>12-1:50 F</b> \$310.00	PM \$588.00		e focuses on in- on of impression		0		• •	

K. HIATT \$252.00 \$26.00 \$310.00 \$588.00 Required: Student Petition. Weekly online sessions required (through Moodle).

#### DA-102L DENTAL RADIOLOGY II LAB, 1 CREDIT

Knowledge and skills in alternative radiographic techniques are taught as students demonstrate exposure techniques and corrective measures of various alternative radiographic techniques. Students meeting radiographic proficiency on the x-ray mannequin prepare for the Radiation Health and Safety (RHS) proficiency exam. Candidates for the RHS proficiency exam will follow all RHS, Dental Assisting National Board (DANB) and Oregon examination requirements in preparation of patient radiographs. Required: Student Petition.

Required: Acceptance into Dental Assistant program

Prerequisites: DA-101 with a C or better

Corequisites: DA-102

HAR	DA-102L-01 3345	32 F		9-11:50	AM
	M. BUTKOVICH	\$126.00	\$13.00	\$0.00	\$139.00
	K. HIATT				
	Required: Student P	etition.			
HAR	DA-102L-02 3345	33 F		2-4:50 P	Μ
	M. BUTKOVICH	\$126.00	\$13.00	\$0.00	\$139.00
	Required: Student P	etition.			

#### DA-105 CLINICAL PROCEDURES II, 2 CREDITS

A foundational course in preventive dentistry. Examines the study of preventive education, oral hygiene instruction, nutrition, fluoride agents, coronal polishing and sealants. The continuation of oral evacuation and isolation techniques will also be covered. Required: Student Petition.

Required: Acceptance into Dental Assistant program

Prerequisites: DA-104 with a C or better

Corequisites: DA-105L

- ONL DA-105-01 334534
  - M. BUTKOVICH \$252.00 \$26.00 \$225.00 \$503.00 Required: Student Petition.

#### DA-105L CLINICAL PROCEDURES II LAB, 1 CREDIT

Furthers the development of chairside skills and introduces the application of preventive procedures such as coronal polishing, fluoride treatment and oral hygiene instruction. Basic knowledge in the application of dental sealants is also taught. Lab skills such as the placement and removal of matrix retainers and rubber dams are taught to provide preparation for chairside dental assisting functions. Aseptic procedures are practiced during all lab skills. Required: Student Petition.

**Required:** Acceptance into Dental Assistant program **Prerequisites:** DA-104L with a C or better

Corequisites: DA-105

HAR	DA-105L-01	334535 M		9-11:50 AM		
	A. SLUITER	\$126.00	\$13.00	\$0.00	\$139.00	
	Required: Stu	dent Petition.				
HAR	DA-105L-02	334536 M		1-3:50 PM		
HAR	DA-105L-02 A. SLUITER	334536 M \$126.00	\$13.00		\$139.00	

DA-108 DENTAL MATERIALS II, 2 CREDITS

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

#### R. MASCARENHAS \$252.00 \$26.00 \$285.00 Required: Student Petition.

334537

Foundational knowledge will prepare students for the fabrication of

custom trays, bleaching trays, and provisional restorations. Includes knowledge of fixed and removable prosthodontic procedures and rational

for polishing removable appliances. An overview of dental implants will

#### DA-108L DENTAL MATERIALS II LAB, 1 CREDIT

Required: Acceptance into Dental Assistant program

also be covered. Required: Student Petition.

Prerequisites: DA-107 with a C or better

DA-108-01

Corequisites: DA-108L

ONL

Essential skills in the manipulation and application of dental impression materials, gypsum products and waxes will be covered. Thorough knowledge of laboratory skills in the fabrication of bleaching trays and provisional restorations will be taught. Demonstration of custom trays and uses are introduced. The instrumentation and procedures for fixed and removable prosthodontics will also be covered. Required: Student Petition.

2025/1

\$563.00

Required: Acceptance into Dental Assistant program Prerequisites: DA-107L with a C or better Corequisites: DA-108

HAR	DA-108L-01	334538 TH	9-11:50 AM	Л
	K. HIATT	\$126.00 \$13.0	0 \$0.00	\$139.00
	Required: Stu seminar. Date	ident Petition. Twelve hou es TBA.	urs clinical pra	cticum
HAR	DA-108L-02	334539 TH	1-3:50 PM	
	K. HIATT	\$126.00 \$13.0	0 \$0 00	\$139.00
	N. TIATI			

#### DA-120 CLINICAL PRACTICUM II, 5 CREDITS

Supervised unpaid practice and improvement of clinical skills taught in clinical procedures, dental materials and radiology. Covers advanced Expanded Functions Dental Assisting (EFDA) skills. Implement infection control protocols. Introduce basic business office procedures. Ten hours of community service will be required. Participate in 9 hours of seminar during the term. Required: Student Petition.

Required: Acceptance into Dental Assistant program

Prerequisites: DA-110 with a C or better

HAR	DA-120-01	334540	тw		8-4:50 P	Μ
			т		9-3:00 P	M
	M. BUTKOVIC	Н	\$630.00	\$65.00	\$335.00	\$1,030.00
	K. HIATT					
	Required: Stud	lent Peti	tion. First	Seminar	Date: Tue	esday,
	Feb 25th from	9 AM - 3	3 PM in Ha	armony V	Vest Roon	n 150.

#### **Digital Media Communications**

#### DMC-104 DIGITAL VIDEO EDITING, 4 CREDITS

Students will utilize video editing skills. These skills will include logging and capturing raw video, assembly of shots on a time line, and the use of effects in the creation of a final video sequence. Along with text generation, audio balancing, audio sweetening and video compositing, this course will offer students an in-depth overview of the video editing process. Course will explore the history of film editing and the theory behind various forms of film and video editing. Lab component included. **Recommended Prerequisites:** WRD-090 or placement in WR-121Z

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 LCT	DMC-104-01	335263	MW		9-11:50 A	AM
		M. DEVENDO	RF	\$504.00	\$52.00	\$106.00	\$662.00

#### DMC-106 ANIMATION & MOTION GRAPHICS I, 4 CREDITS

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

Recommended Prerequisites: DMC-104 or DMC-225

OC LCT	DMC-106-01	335264 MW	1-3:50 PM		
	T. WASSON	\$504.00	\$52.00	\$106.00	\$662.00

#### DMC-147 MUSIC, SOUND & MOVIEMAKING, 1 CREDIT

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

OC LCT	DMC-147-01	334508	F S		6:30 -8:2 9-5:50 P	
	B. ROSE Meets: 1/31 &		\$126.00	\$13.00	\$99.00	\$238.00

#### DMC-205 DIRECTING FOR FILM & VIDEO, 4 CREDITS

This course provides students interested in filmmaking the opportunity to develop the skills needed to successfully direct films and performances specifically for the screen.

Recommended Prerequisites: DMC-104, DMC-264, and WR-121Z

OC LCT	DMC-205-01	335267	MW		1-3:50 PN	1
	M. DEVENDO	RF	\$504.00	\$52.00	\$106.00	\$662.00

## DMC-221 INTRODUCTION TO 2D ANIMATION: DESIGN & TECHNIQUES, 4 CREDITS

Introduces the principles of 2D digital animation using the latest industry standard software. The course will emphasize design and physical principles, analytical skills, and creativity. Students will learn the fundamental principles of animation, character and environment design, FX animation, and basic narrative development, in order to create successful animated projects.

Recommended Prerequisites: DMC-225 or equivalent experience

OC LCT	DMC-221-01	335268 TTH	335268 TTH 9		АМ
	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	337012			
	B. THWING	\$504.00	\$52.00	\$106.00	\$662.00
oc	DMC-225-02	337014 MW		9-11:50 A	AM
	B. THWING	\$504.00	\$52.00	\$106.00	\$662.00

#### DMC-230 DOCUMENTARY FILM PRODUCTION, 4 CREDITS

Introduction to the concepts, fundamentals and production of documentary film making. This lecture and lab course will explore traditions and new technological approaches to creating digital documentary films.

#### 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 No Course Title, Credits							
Section No Crs Reg. Days (M,T,W,TH.F,S,SU) Time Instructor Tuition Fee Crs. Fee						Total		
<b>Recommended Prerequisites:</b> DMC-104 and ENG-194. Previous experience with film studies and digital video								
oc DMC-230-01 339375 TTH 1-3:50 PM								

2025/WI

M. DEVENDORF \$504.00 \$52.00 \$106.00 \$662.00

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

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

ONL LCT	DMC-280-01	335272			
	T. WASSON	\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Stu	dent Petition.			

#### DMC-291 DIGITAL MEDIA COMMUNICATIONS PORTFOLIO PROJECT I, 4 CREDITS

This course is an individual portfolio project class for Digital Media Communications (DMC) students. Students create an original finished work representative of one of the focus areas included in the DMC program. Students will develop a professional online portfolio (website) that represents their skills in their chosen DMC focus area in preparation for internships and employment. The process of portfolio production at this level includes planning for, refining and completing a project, presentation of the completed work, and project assessment.

#### Prerequisites: DMC-100 and DMC-104

Recommended: Two courses from a DMC Focus Area

OC LCT	DMC-291-01	335275 TTH		1-3:50 PM	
	T. WASSON	\$504.00	\$52.00	\$106.00	\$662.00

#### **Economics**

#### EC-201 PRINCIPLES OF ECONOMICS: MICRO, 4 CREDITS

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

Prerequisites: MTH-020 or placement in MTH-098

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

OC LCT	EC-201-01	335188 TTH		3-4:50 PM	
	D. LOUGEE	\$504.00	\$52.00		\$556.00
	Online textboo	ok provided first da	ay of clas	S.	,
ONL LCT	EC-201-02	335190			
	M. PARTAPU	RWALA \$504.00	\$52.00	\$0.00	\$556.00
	Online textboo	ok provided first da	ay of clas	s.	
HAR LCT	EC-201-15	339429 W		6-9:50 PM	
	A. ARMEN	\$504.00	\$52.00	\$0.00	\$556.00
	Online textboo	ok provided first da	ay of clas	s.	

#### 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	335193 MW		10-11:50	D AM
	D. LOUGEE	\$504.00	\$52.00	\$0.00	\$556.00
	Online textbo	ok provided first da	ay of clas	ss.	
ONL LCT	EC-202-02	335194			
	M. PARTAPU	RWALA \$504.00	\$52.00	\$0.00	\$556.00
	Online textbo	ok provided first da	ay of clas	SS.	

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	

#### Education

ONL

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

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

#### ECE-121-01 335195

TBA \$504.00 \$52.00 \$0.00 \$556.00 Meets: 1/6-2/9. This is an accelerated 5-week section that is all online with no synchronous meetings.

#### 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 335196	м		6-7:50 PM			
ESPANOL	Y. SANCHEZ	¢504.00	¢52.00	¢0.00	\$556.00		
	Y. SANCHEZ \$504.00 \$52.00 \$0.00 \$556.00 La clase se reúne seis lunes por Zoom de 6:00-7:50pm.						
	(1/6, 1/13, 1/27, 2/10, 2/24, 3/10).						

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

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

REM	ECE-150ES-01335205	TH		6-7:50 PM			
	ESPAÑOL						
		L. JAMES	\$504.00	\$52.00	\$0.00	\$556.00	
		La clase se reúne seis jueves por Zoom de 6:00PM a					
		7:50PM (1/9, 1/23, 2/6,	2/20, 3/6	, 3/20).			

#### ECE-154 LANGUAGE & LITERACY DEVELOPMENT IN YOUNG CHILDREN, 4 CREDITS

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

ONL ECE-154-01 335214 B. KING \$504.00 \$52.00 \$0.00 \$556.00 Meets: 1/6-2/9. This is an accelerated 5-week course that is all online with no synchronous meetings.

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

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

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

2025/W

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

REM ESPAÑOL	ECE-154ES-01335216	т		6-7:50 F	РМ
	A. ECHEVARRIA La clase se reúne seis 7:50PM (1/7, 1/21, 2/4,		or Zoom		\$556.00 M a

#### ECE- TRABAJAR CON NIÑOS CON NECESIDADES 169ES ESPECIALES, 4 CREDITS

Explora prácticas inclusivas para niños con necesidades especiales, desde el nacimiento hasta el tercer grado, en diferentes entornos de desarrollo infantil entornos de primera infancia. Este curso incluirá una exploración de lo siguiente: historia y contexto legal de la educación especial de la primera infancia; la importancia y los beneficios de crear entornos familiares para apoyar el desarrollo educativo de los niños; adaptaciones y adaptaciones curriculares; evaluación y seguimiento del progreso; y promoción.

REM ESPAÑOL	ECE-169ES-01335219	W	6-7:50 PM	
	M. GARCIA AVILEZ La clase se reúne seis (1/8, 1/22, 2/5, 2/19, 3/	miércoles		\$556.00 ':50pm.
REM ESPAÑOI				
ESPAÑOL	ECE-169ES-02335223	TH	6-7:50 PM	

#### ECE-235 SAFETY, HEALTH AND NUTRITION, 3 CREDITS

Explores safety, health and nutrition issues for children ages infant through preschool. Focus includes creating safe indoor and outdoor environments, healthy lifestyle practices, caring for children with special healthcare needs, USDA food program requirements, and state guidelines around safety, health and nutrition requirements.

#### ONL ECE-235-01 335225

B. KING \$378.00 \$39.00 \$0.00 \$417.00 Meets: 2/10-3/22. This is an accelerated 5-week course that is all online with no synchronous meetings.

## ECE- SEGURIDAD, SALUD, Y NUTRICIÓN, 3 CREDITS 235ES

Este curso explora temas de seguridad, salud y nutrición para niños desde bebés hasta la edad de cinco años. El enfoque incluye la creación de ambientes seguros al interior como el exterior, prácticas para llevar us estilo de vida saludable, cuidado de niños con necesidades especiales médicas, requisitos del programa de alimentos del USDA y pautas estatales sobre los requisitos de seguridad, salud y nutricón.

REM LCT ESPAÑOL	ECE-235ES-01 335227	т		6-7:50 PM		
	L. JAMES	\$378.00	\$39.00	\$0.00	\$417.00	
	La clase se reúne seis martes por Zoom de 6:00-7:50pm. (1/7, 1/21, 2/4, 2/18, 3/4, 3/18).					

#### ECE- PRÁCTICAS INFORMADAS POR EL TRAUMA EN EL 239ES CUIDADO Y LA EDUCACIÓN DE LA PRIMERA INFANCIA, 4 CREDITS

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

Desarrollar conocimientos y habilidades que apoyen el aprendizaje y el desarrollo de niños pequeños, desde el nacimiento hasta los 8 años, que han sido negativamente afectados por traumas. Explorar los tipos y síntomas del trauma, y hacer hincapié en las prácticas informadas por el trauma que pueden aplicarse en el hogar y el entorno escolar del niño. Identificar los recursos disponibles y las estrategias reconocidas para trabajar en colaboración con las familias y otros profesionales.

ONL ESPAÑOL	ECE-239ES-01 335229	ECE-239ES-01 335229									
ONL	B. MARRON ECE-239ES-02335230	\$504.00	\$52.00	\$0.00	\$556.00						
ESPAÑOL	B. MARRON	\$504.00	\$52.00	\$0.00	\$556.00						

### ECE- ESTRATEGIAS DE INSTRUCCIÓN PARA ESTUDIANTES 254ES DE DOS IDIOMAS, 4 CREDITS

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 ESPAÑOL	ECE-254ES-01 335236	М	6-7:50 PM		
LOFANOL	A. ECHEVARRIA La clase se reúne seis (1/6, 1/20, 2/3, 2/17, 3/3		 	\$556.00 om.	

### ECE-291 PRACTICUM II, 4 CREDITS

Focuses on field experience for students in a variety of educational settings, paralleling duties regularly assigned to early childhood educators. This course allows students to apply knowledge, methods, and skills gained from early childhood education and family studies courses. The course covers classroom experiences, best practices and assessment techniques. Required: Student Petition.

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

OC HYB	ECE-291-01	335237 TH	3-4:50 PM							
	B. KING	\$504.00	\$52.00	\$0.00	\$556.00					
	Required: Student Petition. Meets in-person on six									
	6, 2/20, 3/3,									
	3/17).									

# ECE- PRACTICUM II, 4 CREDITS 291ES

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

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

REM ESPAÑOL	ECE-291ES-02335242	F		6-8:50 PM		
ESPANOL	A. ECHEVARRIA Requerido: petición de viernes por Zoom de 6 3/7).		te. La cla	ase se re ne		

### ED-131 INSTRUCTIONAL STRATEGIES, 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	Course Title, Credits						
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	W,TH.F,S,SU) <b>Fee</b>	Time Crs. Fee	Total		

2025/W

This course examines the knowledge, skills, and characteristics of effective teachers. The focus of the course is on successful instructional planning and the delivery of curriculum. This course covers teachercentered and student-centered instructional strategies and ways to differentiate instruction for diverse learners.

ONL LCT	ED-131-01	335246	
	L. SCOTT	\$378.00 \$39.00 \$39.00	\$456.00
	Online textbo	ok included in section fees.	

### ED-216 FOUNDATIONS OF TEACHING & EDUCATION, 4 CREDITS

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

ос	ED-216-01	335250 TTH		10-11:50 AM						
	L. SCOTT	\$504.00	\$52.00	\$43.75	\$599.75					
Online textbook included in section fees.										
ONL	ED-216-02	335251								
	L. SCOTT	\$504.00	\$52.00	\$43.75	\$599.75					
	Online textbook included in section fees.									

### ED-229 LEARNING & DEVELOPMENT, 3 CREDITS

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

ONL LCT	ED-229-01	335253								
	L. SCOTT	\$378.00	\$39.00	\$39.00	\$456.00					
	Online textbook included in section fees.									
OC HYB LC	T ED-229-02	338040 TH	1-2:50 PM							
	L. SCOTT	\$378.00	\$39.00	\$39.00	\$456.00					
Online textbook included in section fees. This class meets on six Thursdays from 1:00pm-2:50pm. (1/16, 1/30, 2/13, 2/27, 3/6, 3/20).										

### ED-254 INSTRUCTIONAL STRATEGIES FOR DUAL LANGUAGE LEARNERS, 3 CREDITS

Examines pedagogical and cultural approaches which lead to successful development of English language skills and content knowledge for children who speak a home language other than English.

ONL LCT	ED-254-01	335255				
	D. HENDRICK	S	\$378.00	\$39.00	\$0.00	\$417.00

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

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

ONL LCT	ED-269-01	337492	337492					
	T. GOWDY	\$378.00	\$39.00	\$0.00	\$417.00			

# **Educational Focus Area**

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

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

										2025/WI			
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

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

ONL LCT	EFA-101J-01	334695			
	Y. SMITH	\$252.00	\$26.00	\$0.00	\$278.00

### EFA-101S INTRODUCTION TO STEM, 2 CREDITS

This course will feature activities, demonstrations, and real world experiences in STEM fields, including environmental science, biology, chemistry, geology, physics, engineering, computer science, and mathematics. Students will gain an understanding of academic and career options and get a taste of what further study will look like in each STEM discipline.

REM	EFA-101S-01	334698 TTH		2-2:50 PM	
	J. BOWN	\$252.00	\$26.00	\$0.00	\$278.00
	E. LEE				

### **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-113 ELECTRONIC EQUIPMENT AND ASSEMBLY II, 1 CREDIT

This is the second course in a three course sequence. Exploration of oscilloscope and function generator functions to create and measure time varying signals. Spreadsheets are used to analyze and plot experimental data. Create circuits using PCB software.

Prerequisites: EET-112

ос	EET-113-01	335278 MW		4:30 -5:2	20 PM
	<b>B. PALACIOS</b>	\$126.00	\$13.00	\$43.75	\$182.75

### EET-141 ELECTRICAL FUNDAMENTALS II, 4 CREDITS

Learn methods of electrical circuit analysis, using proper DC theorems. Study energy storage elements including inductors and capacitors. Transient analysis of RC and RL circuits will studied.

### Prerequisite or Corequisite: EET-113

Prerequisites: EET-137

Recommended	Prerequisite or (	Corequisite: MTH-111Z	

oc	EET-141-01	335281	MW		12-3:50 F	PM
	W. SELLEVAA	G	\$504.00	\$52.00	\$174.00	\$730.00

### EET-225 MECHATRONICS I, 2 CREDITS

This course explores automation of industrial systems. Students will study the fundamental components of industrial motion control, relay circuits, stepper and servo motors; and power transmission components.

### Prerequisites: EET-215

oc	EET-225-01	335282 MW		1-2:50 I	РМ
	M. MATTSON	\$252.00	\$26.00	\$87.50	\$365.50

### EET-227 SEMICONDUCTOR CIRCUITS II, 3 CREDITS

Second in a series concentrating on the application, design and circuit analysis of circuits using transistors. Industry standard devices will be used.

### Prerequisites: EET-127

oc	EET-227-01	335283 MW		5:30 -8:20	PM
	J. KUEBLER	\$378.00	\$39.00	\$130.50	\$547.50

 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

### EET-233 PROGRAMMABLE LOGIC CONTROLLERS I, 3 CREDITS

Study of basic skills necessary to program, install and maintain industrial control systems utilizing programmable logic controllers. Course content lays a foundation of hardwired relay control systems and components, and then builds on this for an understanding of programmable logic controller (PLC) systems.

### Recommended Prerequisites: MFG-130

OC	EET-233-01	335287 TH		6-8:50 PM	
	B. GARDNER	\$378.00	\$39.00	\$0.00	\$417.00

### EET-257 DIGITAL LOGIC II, 3 CREDITS

Bus systems and computer peripherals & systems using latches, registers, counters, and memory circuits are developed and analyzed. **Prerequisites:** EET-157

oc	EET-257-01	335289 MW		5:30 -8:20 PM		
	J. LEE	\$378.00	\$39.00	\$130.50	\$547.50	

### SM-136 PHOTOLITHOGRAPHY, 2 CREDITS

The course covers the relationship between theoretical and practical aspects of current methods and equipment used in photolithography. It also includes troubleshooting common process and equipment-related problems.

### Recommended Prerequisites: SM-150

O

NL	SM-136-01	335584				
	W. SELLEVAA	G	\$252.00	\$26.00	\$87.00	\$365.00

### SM-160 SEMICONDUCTOR PROCESSING II, 2 CREDITS

Provides an overview of basic processes involved in the fabrication of finished silicon wafers, oxidation and deposition processes. Troubleshooting of common equipment is emphasized.

### Recommended Prerequisites: SM-150

ONL	SM-160-01	335585	;			
	W. SELLEVA	٩G	\$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	335586			
	C. CONNORS	9	\$756.00	\$78.00	\$255.00 \$1,089.00V
					licroelectronics &
		idents. Co	prequisite	e: Take t	he following CWE-
	281-06.				
	281-06.	idents. Co	Jiequisite	e. Take i	The following CWE-

### 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

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,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
HAR HYB	EMT-101-01	334541	MWF		1-4:20 P	М
	T. SAWZAK		\$756.00	\$78.00	\$400.00	\$1,234.00

### EMT-102 EMERGENCY MEDICAL TECHNICIAN PART II, 6 CREDITS

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

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

Prerequisites: EMT-101 with a C or better

HAR HYB	EMT-102-01	334542 MWF	F 6-9:20 PM		
	T. SAWZAK	\$756.00	\$78.00	\$400.00	\$1,234.00
	Required: Stu	dent 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	334543			
	T. SAWZAK	\$378.00	\$39.00	\$0.00	\$417.00

### Engineering

### **ENGR-111 INTRODUCTION TO ENGINEERING, 3 CREDITS**

Introduction to the basic ideas and tools of the engineering profession. An exploration of career and education options within the field, and the skills needed to achieve career goals. Methods of engineering analysis, design, and problem solving culminating in a design project. The class will cover all facets of engineering design, including background research, requirement specification and prioritization, development, prototype construction, testing, and evaluation for future redesigns. **Prerequisite or Corequisite:** MTH-111Z or higher

ос	ENGR-111-01	335291 MW		1-2:20 PN	1
	J. NURMI	\$378.00	\$39.00	\$10.00	\$427.00

### **ENGR-112 ENGINEERING PROGRAMMING, 3 CREDITS**

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

Prerequisite or Corequisite: MTH-112Z or higher

ос	ENGR-112-01	335293 TTH		1-2:20 PM	
	E. LEE	\$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

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

2025/W

### **ENGR-171 DIGITAL LOGIC, 4 CREDITS**

The first course in digital design covers basic logic gates, Boolean algebra, Karnaugh mapping, number systems, timing analysis, and state machines. Students will become proficient with computational tools including schematic capture programs and circuit simulators.

### Prerequisites: MTH-111Z

oc	ENGR-171-01 335295 TTH		12:30 -3:20 PM		
	W. SELLEVAAG	\$504.00 \$52.0	0.00 \$0.00	\$556.00	

### **ENGR-212 DYNAMICS, 4 CREDITS**

Kinematics, kinetics, work-energy, and impulse-momentum relationships of engineering systems. The course examines the fundamental principles of Newton's laws of motion, with applications to basic particles and rigid bodies in one, two, and three dimensions.

Prerequisites: ENGR-211 and PH-211

oc	ENGR-212-01	335297 M	w		3-4:50 PM	
	E. LEE	\$5	04.00	\$52.00	\$20.00	\$576.00

### **ENGR-222 ELECTRICAL CIRCUIT ANALYSIS II, 4 CREDITS**

Expands upon the techniques of circuit analysis begun in Circuits I through theory and laboratory experiments. The course covers the time response of first- and second-order circuits, the steady-state circuit behavior of circuits driven by sinusoidal sources, three phase circuits, AC power, electrical motors, and the use of Laplace transforms to analyze the transient and steady-state behavior for a number of signal types.

### Prerequisites: ENGR-221

Corequisites: ENGR-222L

ос	ENGR-222-01	335299 TTH		9-10:20	AM
	E. LEE	\$504.00	\$52.00	\$52.00	\$608.00

# ENGR- ELECTRICAL CIRCUIT ANALYSIS II LAB, 0 CREDIT 222L

Lab course for ENGR-222

Corequisites: ENGR-222

oc	ENGR-222L- 01	335301 TTH		9-10:30	AM
	E. LEE	\$0.00	\$0.00	\$0.00	\$0.00

### **ENGR-231 PROPERTIES OF MATERIALS, 4 CREDITS**

This course is an introduction to materials science, a field that describes the behavior of materials by utilizing principles of chemistry and physics to engineer new materials and predict their resultant properties. The course will focus on describing the microscopic physical and chemical structure of materials and relating that structure to the macroscopic thermal, electrical, and mechanical properties. The course will also cover the connection between atomic/crystal structure and materials processing.

Prerequisites: CH-221

oc	ENGR-231-01	335303 TTH T		9-10:20 10:30 -	AM 1:30 PM
	E. LEE	\$504.00	\$52.00	\$52.00	\$608.00

### English for Speakers of Other Languages

ESOL-012 BEGINNING ESOL, 0 CREDIT

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,) Tuition	W,TH.F,S,SU) <b>Fee</b>	Time Crs. Fee	Total		

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 334642 MW TBA         9-11:50 AM \$0.00         9-11:50 AM \$60.00           HAR LCT         ESOL-012-06 334646 MW TBA         \$0.00         \$60.00         \$60.00           HAR LCT         ESOL-012-06 334646 MW TBA         \$0.00         \$60.00         \$60.00           HAR LCT         ESOL-012-07 334649 MW TBA         \$0.00         \$60.00         \$60.00           HAR LCT         ESOL-012-07 334649 MW TBA         \$0.00         \$60.00         \$60.00           HAR LCT         ESOL-012-08 339447 MW TBA         \$0.00         \$60.00         \$60.00           HAR LCT         ESOL-012-08 339447 MW TBA         \$0.00         \$60.00         \$60.00           Required: Student Petition.         FBA         \$0.00         \$60.00         \$60.00
Required: Student Petition.           HAR LCT         ESOL-012-06 334646 MW TBA         6-8:50 PM \$0.00         \$60.00           Required: Student Petition.         \$0.00         \$60.00         \$60.00           HAR LCT         ESOL-012-07 334649 MW TBA         6-8:50 PM \$0.00         \$60.00           Required: Student Petition.         \$60.00         \$60.00         \$60.00           HAR LCT         ESOL-012-08 339447 MW TBA         6-8:50 PM \$0.00         \$60.00         \$60.00
HAR LCT         ESOL-012-06         334646 MW         6-8:50 PM           TBA         \$0.00         \$60.00         \$60.00           Required: Student Petition.         50.00         \$60.00         \$60.00           HAR LCT         ESOL-012-07         334649 MW         6-8:50 PM           TBA         \$0.00         \$60.00         \$60.00           Required: Student Petition.         FBA         \$0.00         \$60.00           HAR LCT         ESOL-012-08         339447 MW         6-8:50 PM           TBA         \$0.00         \$60.00         \$60.00
TBA         \$0.00         \$0.00         \$60.00         \$60.00           Required: Student Petition.         BSOL-012-07         334649 MW         6-8:50 PM         560.00           TBA         \$0.00         \$0.00         \$60.00         \$60.00           Required: Student Petition.         BAR LCT         ESOL-012-08         339447 MW         6-8:50 PM           HAR LCT         ESOL-012-08         339447 MW         6-8:50 PM         560.00
Required: Student Petition.           HAR LCT         ESOL-012-07         334649 MW         6-8:50 PM           TBA         \$0.00         \$0.00         \$60.00           Required: Student Petition.         Required: Student Petition.         6-8:50 PM           HAR LCT         ESOL-012-08         339447 MW         6-8:50 PM           TBA         \$0.00         \$60.00         \$60.00
HAR LCT         ESOL-012-07         334649 MW         6-8:50 PM           TBA         \$0.00         \$0.00         \$60.00           Required: Student Petition.
TBA         \$0.00         \$0.00         \$60.00         \$60.00           Required: Student Petition.
HAR LCT         ESOL-012-08         339447         MW         6-8:50         PM           TBA         \$0.00         \$0.00         \$60.00         \$60.00
HAR LCT         ESOL-012-08         339447 MW         6-8:50 PM           TBA         \$0.00         \$0.00         \$60.00
TBA \$0.00 \$0.00 \$60.00 \$60.00
Required: Student Petition.

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

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

OC LCT	ESOL-015-01 3	34651 T TH TH		9-11:50 AN 9-10:20 AN 10:30 -11:5	I
	TBA	\$0.00	\$0.00	\$65.00	\$65.00
	Required: Studer	nt Petition.			
HAR LCT	ESOL-015-06 3	34657 T		6-7:50 PM	
		т		8-8:50 PM	
		TH		6-8:50 PM	
	TBA	\$0.00	\$0.00	\$65.00	\$65.00
	Required: Studer	nt Petition.			
HAR LCT	ESOL-015-07 3	39440 T		6-7:20 PM	
		т		7:30 -8:50	РМ
		TH		6-8:50 PM	
	TBA	\$0.00	\$0.00	\$65.00	\$65.00
	Required: Studer	nt Petition.			

### ESOL-020 UPPER BEGINNING GRAMMAR, 0 CREDIT

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

OC LCT	ESOL-020-01	334661 TTH		12:30 -1:5	0 PM
	TBA	\$0.00	\$0.00	\$35.00	\$35.00
	Required: Stu	dent Petition.			
HAR LCT	ESOL-020-06	334665 MW		7:30 -8:50	PM
	TBA	\$0.00	\$0.00	\$35.00	\$35.00
	Required: Stu	dent Petition.			
HAR LCT	HAR LCT ESOL-020-07 339450 MW			7:30 -8:50	PM
	TBA	\$0.00	\$0.00	\$35.00	\$35.00
	Required: Student Petition.				

### ESOL-022 UPPER BEGINNING CONVERSATION, 0 CREDIT

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

2025/W

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

HAR LCT	ESOL-022-06	339448 MW		6-7:20 PM	
	TBA	\$0.00	\$0.00	\$30.00	\$30.00
	Required: Stu	dent Petition.			

### ESOL-024 UPPER BEGINNING READING & WRITING, 0 CREDIT

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

OC LCT	ESOL-024-01 33	4669 T TH TH		9-11:50 A 9-10:20 A 10:30 -11	M
	TBA	\$0.00	\$0.00	\$60.00	\$60.00
	Required: Student	t Petition.			
HAR LCT	ESOL-024-06 33	4672 T TH TH		6-8:50 PM 6-7:20 PM 7:30 -8:50	Λ
	TBA	\$0.00	\$0.00	\$60.00	\$60.00
	Required: Student	t Petition.			

### ESOL-030 INTERMEDIATE GRAMMAR A, 0 CREDIT

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

HAR LCT	ESOL-030-06	339521 MW		7:30 -8:50	D PM
	TBA	\$0.00	\$0.00	\$30.00	\$30.00
	Required: Stu	dent Petition.			

### ESOL-031 INTERMEDIATE GRAMMAR B, 0 CREDIT

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

OC LCT	ESOL-031-01	334675 TTH		12:30 -1:	50 PM	
	S. MUNRO	\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Stu	dent Petition.				
HAR LCT	ESOL-031-06	334677 MW		7:30 -8:50	D PM	
	TBA	\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.					

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

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

OC LCT	ESOL-033-01	334682 MW		10:30 -11:5	0 AM	
	TBA	\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Stu	dent Petition.				
HAR LCT	ESOL-033-06	334685 MW		6-7:20 PM		
	TBA	\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.					

### ESOL-034 INTERMEDIATE READING & WRITING, 0 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 Other Coding Translations: TBA: To be arranged: contact department first class VAR: Variable credit class

Course No 0	Course Title, Credits						
	Section No	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total	

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	334689 TTH		9-11:50 AN	1
	TBA	\$0.00	\$0.00	\$60.00	\$60.00
	Required: Stu	dent Petition.			
HAR LCT	ESOL-034-06	334692 TTH		6-8:50 PM	
	TBA	\$0.00	\$0.00	\$60.00	\$60.00
	Required: Stu	dent Petition.			
HAR LCT	ESOL-034-07	339568 TTH		6-8:50 PM	
	TBA	\$0.00	\$0.00	\$60.00	\$60.00
	Required: Stu	dent Petition.			

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

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

OC LCT	ESOL-043-01	334696 MW		10:30 -11:5	0 AM
	S. MUNRO	\$0.00	\$0.00	\$30.00	\$30.00
	Required: Stu	dent Petition.			
HAR LCT	ESOL-043-06	334699 MW		6-7:20 PM	
	TBA	\$0.00	\$0.00	\$30.00	\$30.00
	Required: Stu	dent Petition.			
HAR LCT	ESOL-043-07	339449 MW		6-7:20 PM	
	TBA	\$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	334702 TTH		9-11:50 AN	1
	L. JOYCE	\$0.00	\$0.00	\$70.00	\$70.00
	Required: Stu	dent Petition.			
HAR LCT	ESOL-044-06	334704 TTH		6-8:50 PM	
	I. FERGUSON	I \$0.00	\$0.00	\$70.00	\$70.00
	Required: Stu	dent Petition.			

### ESOL-046 EDITING FOR BETTER WRITING, 0 CREDIT

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

OC LCT	ESOL-046-01	334706 TTH		9-11:50 AN	1
	K. LONG	\$0.00	\$0.00	\$60.00	\$60.00
	Required: Stu	dent Petition.			
HAR LCT	ESOL-046-06	334710 TTH		6-8:50 PM	
	TBA	\$0.00	\$0.00	\$60.00	\$60.00
	Required: Stu	dent Petition.			

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

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

2025/W

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

OC LCT	ESOL-050-01	339445 TTH		12:30 -1:	50 PM
	K. LONG	\$0.00	\$0.00	\$30.00	\$30.00
	Required: Stu	dent Petition.			
HAR LCT	ESOL-050-06	339451 MW		7:30 -8:50	D PM
	TBA	\$0.00	\$0.00	\$30.00	\$30.00
	Required: Stu	dent Petition.			

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

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

OC LCT	ESOL-053-01	334713 MW		10:30 -11:	50 AM
	K. LONG	\$0.00	0 \$0.00	\$30.00	\$30.00
	Required: Stu	dent Petition.			
HAR LCT	ESOL-053-06	334717 MW		6-7:20 PN	l
	I. FERGUSON	\$0.0	0 \$0.00	\$30.00	\$30.00
	1. 1 211000011	φ0.0	φ0.00	<b>\$00.00</b>	<b>\$00.00</b>

### 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	334720 TTH		9-11:50 A	M
	S. MUNRO	\$0.00	\$0.00	\$70.00	\$70.00
	Reauired: Stu	dent Petition.			

### ESOL-061 VOCABULARY BUILDING 2, 0 CREDIT

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

OC LCT	ESOL-061-01	339441 MW		9-10:20	AM
	S. MUNRO	\$0.00	\$0.00	\$30.00	\$30.00
	Required: Stu	dent Petition.			

### ESOL-075 PRONUNCIATION: SOUNDS 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 sounds (phonemes) of American English. Required: Student Petition.

OC LCT	ESOL-075-01	339444 MW		12:30 -1:	50 PM
	TBA	\$0.00	\$0.00	\$30.00	\$30.00
	Required: Stu	dent Petition.			

### ESOL-082 ASSESS/EVALUATE NEW STUDENTS, 0 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 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	

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 334735	;			
	L. JOYCE	\$0.00	\$0.00	\$0.00	\$0.00
	Required: Student Pet	ition.			
ONL	ESOL-082-06 334739	)			
	L. JOYCE	\$0.00	\$0.00	\$0.00	\$0.00
	Required: Student Pet	ition.			

### 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 334740				
	L. JOYCE	\$0.00	\$0.00	\$0.00	\$0.00
	Required: Student Petit	ion.			
ONL	ESOL-083-06 334742				
	L. JOYCE	\$0.00	\$0.00	\$0.00	\$0.00
	Required: Student Petit	ion.			

### 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	334745 TTH		12:30 -1:	50 PM
	TBA	\$378.00	\$39.00	\$240.00	\$657.00
	Required: Stu	udent 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.

ос	PIE-024-01	334748 T		9-11:50	AM
		ТН		9-10:20	AM
		ТН		10:30 -1	1:50 AM
	TBA	\$756.00	\$78.00	\$480.00	\$1,314.00
	Required: Str	udent Petition.			

### PIE-031 INTERMEDIATE GRAMMAR B, 0 CREDIT

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

oc	PIE-031-01	334752 TTH		12:30 -1:	50 PM
	S. MUNRO	\$378.00	\$39.00	\$240.00	\$657.00
	Required: Stud	dent Petition.			

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

2025/W

### PIE-033 INTERMEDIATE CONVERSATION 2, 0 CREDIT

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

ос	PIE-033-01	334755 MW		10:30 -11	:50 AM
	TBA	\$378.00	\$39.00	\$240.00	\$657.00
	Required: Stu	dent Petition.			

### PIE-034 INTERMEDIATE READING & WRITING, 0 CREDIT

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

ос	PIE-034-01	334758 TTH		9-11:50	АМ
	ТВА	\$756.00	\$78.00	\$480.00	\$1,314.00
	Required: Stu	dent Petition.			

### PIE-043 UPPER INTERMEDIATE CONVERSATION 2, 0 CREDIT

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

ос	PIE-043-01	334761 MW		10:30 -11	I:50 AM
	S. MUNRO	\$378.00	\$39.00	\$240.00	\$657.00
	Required: Stud	dent 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.

ос	PIE-044-01	334763 TTH		9-11:50	АМ
	L. JOYCE	\$756.00	\$78.00	\$480.00	\$1,314.00
	Required: Stud	dent 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.

ос	PIE-046-01	334767 TTH		9-11:50	AM
	K. LONG	\$756.00	\$78.00	\$480.00	\$1,314.00
	Required: St	udent Petition.			

### PIE-050 ADVANCED GRAMMAR A, 0 CREDIT

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

ос	PIE-050-01	339446 TTH		12:30 -1:	:50 PM
	K. LONG	\$378.00	\$39.00	\$240.00	\$657.00
	Required: Stud	dent Petition.			

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

### PIE-053 ADVANCED COMMUNICATION SKILLS 2, 0 CREDIT

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

ос	PIE-053-01	334770 MW		10:30 -1	1:50 AM
	K. LONG	\$378.00	\$39.00	\$240.00	\$657.00
	Required: Str	udent 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.

OC	PIE-054-01	334774 TTH		9-11:50	АМ
	S. MUNRO	\$756.00	\$78.00	\$480.00	\$1,314.00
	Required: Stud	dent Petition.			

### PIE-061 VOCABULARY BUILDING 2, 0 CREDIT

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

ос	PIE-061-01	339442 MW		9-10:20	АМ
	S. MUNRO	\$378.00	\$39.00	\$240.00	\$657.00
	Required: Stu	udent Petition.			

### PIE-075 PRONUNCIATION: SOUNDS 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 sounds (phonemes) of American English. Required: Student Petition.

ос	PIE-075-01	339443 MW		12:30 -1:	50 PM
	TBA	\$378.00	\$39.00	\$240.00	\$657.00
	Required: St	udent Petition.			

### English Literature

### ENG-108 WORLD LITERATURE: EARLY MIDDLE AGES THROUGH THE 18TH CENTURY, 4 CREDITS

Literature of the Early Middle Ages through the 18th Century, 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	ו WR-121Z
--	-----------

ONL	ENG-108-01	338047	
	A. WARREN	\$504.00 \$52.00 \$0.00	\$556.00

### ENG-205 BRITISH LITERATURE: ROMANTIC TO CONTEMPORARY, 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 No	Course Title, Cr	redits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total

Representative study of British literature, including major works, writers, and literary forms. Nineteenth century through modern, with readings from the Romantic, Victorian, and modern periods.

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

ONL LCT ENG-205-01 335271 J. MCALPINE \$504.00 \$52.00 \$0.00 \$556.00 This course uses an online text. Students who did not take ENG-204 in Fall 2021 will be charged \$24.28 for access to the text.

2025/W

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

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

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

ос	ENG-222-01	338048	MW		10-11:	50 AM
	T. DONNELLY		\$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

OC HYB	ENG-226-01	339555 T		1-2:50	PM
	C. BURNELL	\$504.00	\$52.00	\$0.00	\$556.00
	Focus on Ame people.	erican fiction by, al	pout, and	l for que	er and trans

### ENG-240 NATIVE AMERICAN MYTHOLOGY, 4 CREDITS

Explores Native American mythology and its cultural, social, and literary significance; views Native American mythology in its historical and geographic positions and in the larger context of world literary tradition; considers how studying myth affects and influences reading other works; introduces theoretical approaches to mythology and basic literary elements and terminology.

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

ос	ENG-240-01	338049	MW		1-2:50 PM	
	J. BRYANT-T	RERISE	\$504.00	\$52.00	\$0.00	\$556.00

### ENG-260 INTRODUCTION TO WOMEN WRITERS, 4 CREDITS

The study of the works (e.g. plays, poems, fiction, new media) created by women writers, both classic and contemporary, with an emphasis on women's evolving social, historical, and economic roles.

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

ONL	ENG-260-01 3	38050			
	N. ROSEVEAR	\$504.00	\$52.00	\$0.00	\$556.00

# **Environmental Science**

### ESR-172 INTRODUCTION TO CLIMATE CHANGE, 4 CREDITS

Introduction to climate change, the causes and consequence and efforts to mitigate climate change. The laboratory assignments will focus on applied introductory climate change topics.

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,W Tuition			Total
Corequisit	tes: ESR-172L					
Recommended Prerequisites: MTH-060 with a C or better or placement in MTH-065 Recommended Prerequisites: WRD-098 or placement in WR-121Z						
ос	ESR-172-01	335306	5 ТТН		1-2:20 PM	
	E. CAVALIER	E	\$504.00	\$52.00	\$55.00	\$611.00
	Corequisite: T 172L-02, ESF			ving ESR	-172L-01, E	SR-
ONL	ESR-172-02	335310	)			
	E. CAVALIER	E	\$504.00	\$52.00	\$55.00	\$611.00
	Corequisite: T 172L-02, ESF	-172L-0	3.	ing ESR	-172L-01, E	SR-
ONL	ESR-172-15		-			
	E. CAVALIER		\$504.00	•		\$611.00
	Corequisite: T	ake the	following l	ESR-172	L-15.	
ESR-172L	INTRODUCTI	ON TO		CHANG	E LAB. 0 C	REDIT

### ESR-172L INTRODUCTION TO CLIMATE CHANGE LAB, 0 C

### Lab course for ESR-172

Corequisites: ESR-172

oc	ESR-172L-01 3353	14 T		9-11:50 AI	м
	E. CAVALIERE	\$0.00	\$0.00		\$0.00
	Corequisite: Take 1 02.	of the follow	wing ESF	R-172-01, ES	R-172-
ос	ESR-172L-02 3353	16 W		1-3:50 PM	
	E. CAVALIERE	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take 1 02.	of the follow	wing ESF	R-172-01, ES	R-172-
		40 711		2:30 -5:20	DN4
oc	ESR-172L-03 3353	18 I H		2.30-5.20	PINI
oc	ESR-172L-03 3353 E. CAVALIERE	18 IH \$0.00	\$0.00	\$0.00	РМ \$0.00
OC		\$0.00		\$0.00	\$0.00
OC HAR	E. CAVALIERE Corequisite: Take 1	\$0.00 of the follow		\$0.00	\$0.00 R-172-
	E. CAVALIERE Corequisite: Take 1 02.	\$0.00 of the follow		\$0.00 \$-172-01, ES	\$0.00 R-172-

### **Ethnic Studies**

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

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

Recommended Prerequisites: WR-121Z

oc	ES-211-01	339426 MW		1-2:50 PM	
	L. MARTINEZ	\$504.00	\$52.00	\$0.00	\$556.00

### **Family Studies**

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

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

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
ONL LCT	HDF-225-01	335398				
	D. GLASCOCK	<u> </u>	\$378.00	\$39.00	\$0.00	\$417.00
	Meets: 2/10-3/2 is all online with					rse that

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

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

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

REM LCT ESPAÑOL	HDF-247ES-01 335401	TH	6-7:50 PM	
	D. TORRADO La clase se reúne seis (1/9, 1/23, 2/6, 2/20, 3/		 	\$556.00 )pm.

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

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

ONL	HDF-260-01	335404			
	C. BAKER	\$378.00	\$39.00	\$0.00	\$417.00

### Fire Science (Wildland)

### FRP-110 BASIC WILDLAND FIRE INVESTIGATION (FI-110), 1 CREDIT

An introduction to the roles and responsibilities of wildland firefighters in determining a wildland fire origin. Students will identify the wildland fire categories, wildland fire behavior and the initial observations made by the firefighter responding to and arriving at a wildland fire. The primary emphasis of this course is to teach sound wildland fire observations and origin scene protection practices that enable first responders to a wildland fire scene to perform proper origin scene protection procedures. **Prerequisites:** FRP-130 (S-130/S-190/L-180)

ос	FRP-110-01	339524 S		8-5:00 PM	
	K. GEARY	\$126.00	\$13.00	\$25.00	\$164.00
	Meets: 3/8.				

### FRP-244 WILDERNESS II: BASIC LAND NAVIGATION (S-244), 3 CREDITS

Students will learn how to make and document field observations, how to produce hand drawn and GPS field maps, and how to navigate using a map, compass, and GPS.

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

Recommended Prerequisites: FRP-290 (S-290)

oc LCT FRP-244-01 334901 MTWTHF 8:30 -3:00 PM M. SNYDER \$378.00 \$39.00 \$50.00 \$467.00 Meets: 2/3-2/7.

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

# FRP-246 WILDERNESS IV: BACKCOUNTRY CPR/FIRST AID/AED, 2 CREDITS

Introduction to general medical concepts and basic life support skills. It is targeted to the outdoor enthusiast on day trips or short adventures. Course results in CPR, first aid & AED certification.

OC HYB	FRP-246-01	334905	F SSU SU		5-8:30 P 8:30 -5:0 8:30 -5:0	DO PM
	M. ADAMS Meets: 2/7, 2/8		\$252.00 2/16	\$26.00	\$50.00	\$328.00

### FRP-250 WILDERNESS VI: BASIC TOOL USE AND CARE, 1 CREDIT

Selection, operation, and maintenance of chain saws and hand tools to include shovels, Pulaski, single and double bit axes, hand saws, and various other tools used in forestry, firefighting and survival activities. Class includes a lab component.

oc	FRP-250-01	339525 M		10-12:00	РМ
	J. GULLEY	\$126.00	\$13.00	\$125.00	\$264.00
	Meets: 1/6-3/	15.			

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

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

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

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

ос	FRP-255-01	339526 MTH	339526 MTH		0 AM
	J. GULLEY	\$252.00	\$26.00	\$0.00	\$278.00

### FRP-265 WILDLAND FIRE PREVENTION EDUCATION 1 (P-101), 3 CREDITS

This course was developed as part of a multi-course national curriculum covering wildfire prevention. It is designed to provide a basic introduction of fire prevention principles and activities for fire prevention specialists, fire managers, public information officers and others who have wildland fire prevention, education, or mitigation responsibilities. Course equivalent to NWCG P-101 Fire Prevention Education 1.

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

oc	FRP-265-01	334907 TH		10-1:3	D PM
	J. GULLEY	\$378.00	\$39.00	\$0.00	\$417.00

# First Year Experience (FYE)

### FYE-101 FIRST YEAR EXPERIENCE LEVEL I, 2 CREDITS

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

### 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	redits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) <b>Fee</b>	Time Crs. Fee	Total
OC LCT	FYE-101-01	335294	М		9-10:50 AM	
	T. BOYLE-		\$0.00	\$0.00	\$93.00	\$93.00
	GALESTIANTZ	2				
	Contact: couns	seling@c	clackamas	s.edu.		
OC LCT	FYE-101-02	335298	MW		11-11:50 AM	Λ
	TBA		\$0.00	\$0.00	\$93.00	\$93.00
	Contact: couns	seling@c	lackamas	s.edu.		
OC LCT	FYE-101-03	335302	W		9-10:50 AM	
	TBA		\$0.00	\$0.00	\$93.00	\$93.00
	Contact: couns	seling@c	lackamas	s.edu.		
OC LCT	FYE-101-04	335305	т		2-3:50 PM	
	TBA		\$0.00	\$0.00	\$93.00	\$93.00
	Contact: couns	seling@c	lackamas	s.edu.		
oc	FYE-101-05	339424	TH		2-3:50 PM	
	TBA		\$0.00	\$0.00	\$93.00	\$93.00
ONL	FYE-101-06	339425				
	J. CORTES		\$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 LCT ESPAÑOL	FYE-101ES-01 335317	М		5:30 -7:20 P	M
ESPANOL	L. MARTINEZ	\$0.00	\$0.00	\$93.00	\$93.00
	Contact: counseling@c	lackamas	s.edu.		

### FYE-102 FIRST YEAR EXPERIENCE LEVEL II, 1 CREDIT

This course is a second in the First Year Experience sequence offered to new CCC students. This course is designed for students who want to continue to delve in depth into future educational and career planning, financial aid and scholarships, applied study skills, and college and community resources.

Prerequisites: FYE-101

REM LCT	FYE-102-01	335321 T		9-9:50 AM	
	D. GREEN	\$0.00	\$0.00	\$75.00	\$75.00
	Contact: cour	nseling@clackama	as.edu.		

# Food & Nutrition

### FN-110 PERSONAL NUTRITION, 3 CREDITS

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

### ONL FN-110-01 334544

T. SCOLLARD \$378.00 \$39.00 \$82.20 \$499.20 Online textbook included in section fees.

### FN-225 NUTRITION, 4 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	

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

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

ONL	FN-225-01 3345	45			
	T. SCOLLARD	\$504.00	\$52.00	\$0.00	\$556.00
ONL	FN-225-02 3345	46			
	J. PAVLINAC	\$504.00	\$52.00	\$105.84	\$661.84
	Online textbook inclu	uded in secti	on fees.		

# **General Development Education (GED)**

### GED Classes offered Days and Evenings

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

### GED-011 GED IN ESPAÑOL, 0 CREDIT

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

REM ESPAÑOL	GED-011-01	335327	MW		5:30 -7:50 P	M	
LOPANOL	A. ARISTIZAB Requerido: pe Aristizabal at {	tición de		\$0.00 te. Conta	\$50.00 act: Adriana	\$50.00	
HAR ESPAÑOL	GED-011-02	335329	ттн		6-8:50 PM		
ESPANOL	C. SANCHEZ \$0.00 \$0.00 \$50.00 \$50.00 Requerido: petición del estudiante. For registration information contact Camilo Sanchez at 503-594-3029 or register at first class.						

### GED-015 GED PREPARATION, 0 CREDIT

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

OC LCT	GED-015-17 33 A. WICKERT Required: Studen	<b>5334 MW</b> \$0.00 t Petition.	\$0.00	<b>5:30 -7:50</b> \$50.00	<b>PM</b> \$50.00
HAR HYB LCT	GED-015-67 33	5339 MW		10-11:50 A	M
	M. NICKAS	\$0.00	\$0.00	\$55.00	\$55.00
	Required: Studen				
ONL LCT		5341			
	S. HATSWELL	\$0.00	\$0.00	\$55.00	\$55.00
	Required: Studen				
ONL LCT		5343			
	A. SMITH	\$0.00	\$0.00	\$55.00	\$55.00
	Required: Studen	t 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, 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 LCT	GED-015-80	335344	MTWTH		10-11:50 AI	M	
	J. NIELSON		\$0.00	\$0.00	\$55.00	\$55.00	
	Required: Stud	lent 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 ESPAÑOL	GED-049-02	335347	ттн		6-8:50 PM	
LOFATOL	A. ARISTIZAB Requerido: pe		\$0.00 I estudian	\$0.00 ite.	\$50.00	\$50.00
HAR ESPAÑOL	GED-049-03	335353	MW		9-11:50 AM	
	C. SANCHEZ Requerido: pe information co register at first	ntact Ca				\$50.00 or
HAR ESPAÑOL	GED-049-04	335356	S		9-11:50 AM	
ESPANUL	M. ROSAS DE Requerido: pe		•	\$0.00 ite.	\$30.00	\$30.00

# **General Science**

### GS-105 EARTH SYSTEM SCIENCE, 4 CREDITS

A lab course examining the chemistry and geology of scientific dating techniques, sedimentary rocks, surface processes, fossils, energy resources and the physics and chemistry of energy resources and mass wasting.

### Corequisites: GS-105L

<b>Recommended Prerequisites:</b> MTH-065 or placement in MTH-095
---

ос	GS-105-01	339519 TTH		10-11:20 AM		
	A. KOTASH	\$504.00	\$52.00	\$50.00	\$606.00	

### GS-105L EARTH SYSTEM SCIENCE LAB, 0 CREDIT

Lab course for GS-105

Corequisites:	GS-105
---------------	--------

ос	GS-105L-01	339520 W	1-3:50 PM			
	A. KOTASH	\$0.00	\$0.00	\$0.00	\$0.00	

### GS-107 ASTRONOMY, 4 CREDITS

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

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

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

ONL LCT	GS-107-40	335346	
	C. SHARON	\$504.00 \$52.00 \$25.00	\$581.00
	Corequisite: T	ake the following GS-107L-40.	
ONL LCT	GS-107-41	335348	
	C. SHARON	\$504.00 \$52.00 \$25.00	\$581.00
	Corequisite: T	ake the following GS-107L-41.	

### GS-107L ASTRONOMY LAB, 0 CREDIT

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) <b>Fee</b>	Time Crs. Fee	Total
Lab course	e for GS-107					
Corequisit	t <b>es:</b> GS-107					
ONL	GS-107L-40	335349	)			
	C. SHARON		\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: 7	Take the	following	GS-107-	40.	
ONL	GS-107L-41	335350	)			
	C. SHARON		\$0.00	\$0.00	\$0.00	\$0.00

### 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.

#### INTRODUCTION TO GEOGRAPHIC INFORMATION GIS-201 SYSTEMS, 3 CREDITS

Corequisite: Take the following GS-107-41.

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

ONL	GIS-201-01	339523	
	A. ARMEN	\$378.00 \$39.00 \$40.00 \$457.00	)

#### GIS-202 INTERMEDIATE GEOGRAPHIC INFORMATION SYSTEMS, **3 CREDITS**

This class follows the introductory course as a continuation of Geographic Information Systems (GIS) principles using the ArcGIS Pro software platform. Topics explored include working with geodatabases, topology, vector and raster analysis, and creating and editing data. Students also practice key GIS project management processes, workflows, and best practices through an analysis project.

Prerequisites: GIS-201

ONL	GIS-202-01	334910	
	A. ARMEN	\$378.00 \$39.00 \$40.00 \$457.00	

#### **CARTOGRAPHY AND MAP MAKING, 3 CREDITS** GIS-205

Explores basic cartographic design principles and how to apply them to produce high quality maps using ArcGIS Pro software. Introduces cartographic terminology, principles, and map-making tools. Significant themes include visual representation and communication; how to turn geographic data into effective maps for print and the web; how to critique maps; map design and elements; and color, fonts, labels, and symbols for maps

Prerequisites: GIS-201

ONL	GIS-205-01	334911		
	A. ARMEN	\$378.00 \$	\$39.00 \$30.00	\$447.00

#### GIS-236 **INTRODUCTION TO PROGRAMMING FOR GIS, 3** CREDITS

An introduction to computer programming and Object Orientated Programming (OOP) with Python. Covers basic computer programming concepts including data types, loops, control structures, functions, classes, and program development. Use Python for problem solving by creating basic scripts for more advanced object-oriented programs.

Recommended Prerequisites: GIS-101

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
REM	<b>GIS-236-01</b> A. KELLEY	334913	<b>MW</b> \$378.00	\$39.00	<b>5-7:50 PM</b> \$30.00	\$447.00

2025/W

### Geography

### GEO-100 INTRODUCTION TO PHYSICAL GEOGRAPHY, 4 CREDITS

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

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

ONL	GEO-100-01	335359				
	A. ARMEN	9	\$504.00	\$52.00	\$94.99	\$650.99
	Online textboo	ok include	d in secti	ion fees.		

### GEO-110 CULTURAL & HUMAN GEOGRAPHY, 4 CREDITS

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

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

#### ONL LCT GEO-110-01 335360

C. FELDMAN \$504.00 \$52.00 \$0.00 \$556.00 Online textbook provided first day of class.

### 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 335361 C. FELDMAN \$504.00 \$52.00 \$109.99 \$665.99 Online textbook included in section fees.

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

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

ос	GEO-280-01	335364				
	C. FELDMAN		\$756.00	\$78.00	\$45.00	\$879.00V
	D. LOUGEE					
	Required: Stue CWE-281-06.	dent Pet	ition. Core	equisite:	Take the	following

### Geology

#### G-102 **GENERAL GEOLOGY, 4 CREDITS**

For non-science majors. An introductory lab course that explores the Earth's systems and surface features. Systems/processes/hazards explored include rivers, mass wasting, glaciers, groundwater, and deserts. Labs focus on geologic and topographic maps and how they are used to understand geologic features and local geology.

Corequisites: G-102L

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

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

Distance Education Notification: 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,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
ONL	G-102-01	335322	2			
	A. KOTASH		\$504.00	\$52.00	\$50.00	\$606.00
	This section h	as remo	te lectures	s and on-	campus exa	ams.
	Midterm and I	-inal are	on campi	us on Feb	oruary 7th	
	(Wednesday)		•			al
	week). Studer	,		•		
	Corequisite: T					
ос	G-102-02		ттн	0	10-11:20 A	
	B. WALKER		\$504.00	\$52.00	\$50.00	\$606.00
	This section h	as an in-	•		•	1 of the
	following G-10					
HAR	G-102-20	335328			6-8:50 PM	
	J. WOODCOC			\$52.00		\$606.00
	Corequisite: T		,			φ000.00
	Corequisite. 1		iono wing '		.0.	
G-102L	GENERAL G			CREDIT		
			,	UNEDIT		
Lab course	e for G-102					

# Corequisites: G-102

ос	G-102L-01	335330 T		1-3:50 P	М
	A. KOTASH	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: 7	Take 1 of the follow	ving G-1	02-01, G-1	02-02.
OC	G-102L-02	335332 TH		1-3:50 P	М
	TBA	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite:	Take 1 of the follow	ving G-1	02-01, G-1	02-02.
HAR	G-102L-20	335333 TH		6-8:50 P	Μ
	TBA	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: 7	Take the following	G-102-2	0.	

### G-202 GENERAL GEOLOGY, 4 CREDITS

For science majors. A lab course that explores surface features of the Earth and the systems that form those features. Systems/processes/hazards explored include rivers, mass wasting, glaciers, groundwater and deserts. Topographic/geologic maps are used to understand geologic features and local geology.

Prerequisites: G-201 with a C or better

### Corequisites: G-202L

ONL	G-202-01 335335
	A. KOTASH \$504.00 \$52.00 \$50.00 \$606.00
	This section has remote lectures and on-campus exams.
	Midterm and Final are on campus on February 7th
	(Wednesday week 5) and March 18th (Monday of final
	week). Students will need to come to campus to take exams.
	Corequisite: Take 1 of the following G-202L-01, G-202L-02.
ос	G-202-02 335336 TTH 10-11:20 AM
	B. WALKER \$504.00 \$52.00 \$50.00 \$606.00
	This section has an in-person lab. Corequisite: Take 1 of the following G-202L-01, G-202L-02.
HAR	G-202-20 335338 T 6-8:50 PM
	J. WOODCOCK \$504.00 \$52.00 \$50.00 \$606.00
	Corequisite: Take the following G-202L-20.

### G-202L GENERAL GEOLOGY LAB, 0 CREDIT

Lab course for G-202

Corequisites: G-202

ос	G-202L-01	335340 T		1-3:50 P	М
	A. KOTASH	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite:	Take 1 of the follow	wing G-2	02-01, G-2	02-02.
oc	G-202L-02	335342 TH		1-3:50 P	M
	TBA	\$0.00	\$0.00	\$0.00	\$0.00
	IDA	<b>\$0.00</b>	φU.UU	φU.UU	φ0.00

Course No	Course Title, C	redits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	/,TH.F,S,SU) Fee	Time Crs. Fee	Total
HAR	G-202L-20	335345	TH		6-8:50 PM	
	J. WOODCOC	K	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Ta	ake the fo	ollowing G	3-202-20		

2025/M

### Gerontology

### GRN-182 AGING AND THE BODY, 3 CREDITS

Focuses on how aging affects physical health and well-being; impact on body systems, illness, disability, longevity research, wellness and health promotion. For students interested in working with the elderly and those in the field.

ONL LCT	GRN-182-01	334523		
	Y. SMITH	\$378.00 \$	\$39.00 \$0.00	\$417.00

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

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

ONL LCT	GRN-184-01	334524			
	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

**GRN-280-01 334525** J. LOVELESS \$756.00 \$78.00 \$45.00 \$879.00V Required: Student Petition. Corequisite: Take the following CWE-281-06.

### Health

HAR

### HE-163 BODY & DRUGS I: INTRODUCTION TO ABUSE & ADDICTION, 3 CREDITS

The first of a four-course sequence, this course examines the history of the use of addictive drugs, the definition of addiction, psychosocial and neurobiological causes of drug and behavioral addiction, addictive drug classifications, and the history of/introduction to addiction treatment, and access and utilize effective resources to improve and maintain mental and physical wellbeing.

ONL	HE-163-01 33535 <sup>-</sup>	1		
	T. PANTAGES	\$378.00 \$39.0	0 \$0.00	\$417.00
ONL	HE-163-02 335352	2		
	T. PANTAGES	\$378.00 \$39.0	0 \$0.00	\$417.00

### HE-164 BODY & DRUGS II: ALCOHOL, 3 CREDITS

The second of a four-course offering. Covers beverage alcohol as a drug, the history of alcohol use/abuse, physiological and psychological effects of alcohol use on the user, and the impact of that use on those around the user and on society at large, access and utilize effective resources to improve and maintain mental and physical wellbeing.

Prerequisites: HE-163

ONL	HE-164-01	335354				
	T. PANTAGES	5	\$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	Listing												2025/WI
Course No	Course Title, Cr	redits					Course No	Course Title, Cr	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

### HE-201 PERSONAL TRAINING, 3 CREDITS

Students will follow the curriculum for the National Council on Strength and Fitness (NCSF) Certified Personal Trainer certification. The course will guide students through the expectations, requirements, processes and knowledge to prepare to become a certified Personal Trainer through the NCSF. Through videos, lecture and self-study, students will be prepared to take the NCSF Certified Personal Training exam, which is offered through the NCSF and is not included in the course.

### Recommended Prerequisites: PE-240

ONL	HE-201-01	335355			
	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	335357
	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 335362 T. NELSON \$378.00 \$39.00 \$0.00 \$417.00

### HE-223 SPORTS NUTRITION, 3 CREDITS

Examination of nutrition as it relates to the demands of exercise and competitive sport. Emphasis on the relationship of diet and exercise to optimal health and performance. This course can lead to a certification as a sports nutritionist through the NCSF.

ONL	HE-223-01	335363
	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	335365 MW	1-2:20 PM			
	K. WOODS	\$378.00	\$39.00	\$0.00	\$417.00	

### HE-250 PERSONAL HEALTH, 3 CREDITS

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

ONL	HE-250-04	335369	)			
	J. RHODEN		\$378.00	\$39.00	\$0.00	\$417.00
ONL	HE-250-05	335374				
	J. RHODEN		\$378.00	\$39.00	\$0.00	\$417.00
	Meets: 2/17-3	/22.				

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

	eads to a Red Cro	al care is needed. Successful completion of the oss First Aid/CPR/AED certification for the lay
ONL	HE-252-01	335375
	K. WOODS	\$378.00 \$39.00 \$35.00 \$452.0
ONL	HE-252-03	335378
	T. NELSON	\$378.00 \$39.00 \$35.00 \$452.0
ONL	HE-252-05	335379
	K. ARIZO	\$378.00 \$39.00 \$35.00 \$452.0

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

### 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	335380			
	T. NELSON	\$756.00	\$78.00	\$45.00	\$879.00V
	•	dent Petition. Revi		0	•
		the online applicat			
	http://www.cla	ckamas.edu/CWE	<ul> <li>Student</li> </ul>	s.aspx prid	or to
	registering. Co	prequisite: Take th	e followir	ng CWE-2	81-06.

### **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	335433
	J. RHODEN	\$378.00 \$39.00 \$30.00 \$447.00
ONL	HPE-295-02	335438
	J. BUEL	\$378.00 \$39.00 \$30.00 \$447.00

### HPE-296 HEALTH AND FITNESS FOR CRIMINAL JUSTICE, 3 CREDITS

This course provides students the knowledge and understanding of the interacting influence of physical fitness and health in all dimensions of wellness. Explores understanding and managing the stressors experienced by law enforcement and corrections personnel. Students will be prepared to complete the Oregon Physical Abilities Test (ORPAT), required by Oregon law enforcement and corrections academies.

ONL	HPE-296-01	335406			
	P. FISKUM	\$378.00	\$39.00	\$0.00	\$417.00

### **Health Professions**

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

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	

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

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

HP-100-01 HAR HYB 339460 TBA S. COOPER \$126.00 \$13.00 \$15.00 \$154.00 Additional costs associated with this course include: \$22 Bloodborne Pathogens Certificate, \$36 CPR Card, \$16.50 First Aid Certificate for a total of \$74.50 additional cost. Inperson date and times: Friday, February 21st at 8:30am -12:00pm or 1:00pm - 4:30pm.

#### 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	337504
	T. BOYD	\$504.00 \$52.00 \$60.00 \$616.00
ONL	HP-110-02	337505
	T. BOYD	\$504.00 \$52.00 \$60.00 \$616.00
ONL	HP-110-03	337506
	T. BOYD	\$504.00 \$52.00 \$60.00 \$616.00

#### HP-130 COMMUNICATIONS AND ETHICAL PRACTICES IN **HEALTHCARE SETTINGS, 2 CREDITS**

This course will introduce the student to a variety of communications and foundational aspects of patient care of the healthcare professional. Students will be exposed to Electronic Health Records, the importance of documentation and study pertinent laws in a healthcare setting.

Prerequisites: WRD-098 or placement into WR-101

REM	HP-130-01	337496 T	6-7:00 PM			
	C. GARNER	\$252.00	\$26.00	\$0.00	\$278.00	

# 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.

2025/W

Course No	Course Title, C	Credits				
	Section No Instructor	Crs Reg.	Days (M,1 Tuition	r,w,TH.F,S,SU) Fee	Time Crs. Fee	Total
HAR HYB	ASE-042-01	334928	W		12:30 -2:	00 PM
	H. PAZ		\$0.00	\$0.00	\$0.00	\$0.00
	Required: Stu	ident Peti	tion.			
OC LCT	ASE-042-04	334933	W		2-4:50 P	М
	D. BARE		\$0.00	\$0.00	\$0.00	\$0.00
	Required: Stu	ident Peti	tion.			

#### 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.

ос	XASE-0001-02 335821 MTWTH			10-11:50	AM	
	A. SMITH	\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.					
HAR HYB	XASE-0001-03 33582	22 MW		10-11:50	АМ	
	L. NIELSON	\$0.00	\$0.00	\$30.00	\$30.00	
Required: Student 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 33542	7					
	P. MCFARLAND	\$504.00	\$52.00	\$0.00	\$556.00		
	Online textbook provided first day of class.						

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

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

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

OC HYB LC	T HST-102-01 3354	28 W		10-11:5	60 AM		
	P. MCFARLAND	\$504.00	\$52.00	\$0.00	\$556.00		
	Online textbook provided first day of class.						
ONL LCT	HST-102-02 3380	59					
	P. MCFARLAND	\$504.00	\$52.00	\$0.00	\$556.00		
	Online textbook prov	/ided first da	v of clas	S.			

#### HST-131 **HISTORY OF CRIME & PUNISHMENT IN WESTERN CIVILIZATION, 4 CREDITS**

Explores the topics of crime and punishment 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: WRD-090 or placement in WRD-098

ONL LCT HST-131-01 335432 P. MCFARLAND \$504.00 \$52.00 \$0.00 \$556.00

#### **HISTORY OF THE UNITED STATES, 4 CREDITS** HST-201

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

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,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total		
OC	HST-201-01	335434	TTH		1-2:50 F	PM		
	J. FLOWERS		\$504.00	\$52.00	\$56.94	\$612.94		
Online textbook included in section fees								

### HST-202 HISTORY OF THE UNITED STATES, 4 CREDITS

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

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

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

oc	HST-202-01 33	335435 TTH		10-11:50 AM		
	J. FLOWERS	\$504.00	\$52.00	\$56.94	\$612.94	
	Online textbook in	cluded in secti	on fees.			
ONL	HST-202-02 33	5436				
	J. FLOWERS	\$504.00	\$52.00	\$56.94	\$612.94	
	Online textbook included in section fees.					

### HST-203 HISTORY OF THE UNITED STATES, 4 CREDITS

Covers the period of United States history since and including WWI. **Prerequisite or Corequisite:** WRD-098 or placement in WR-121Z **Recommended Prerequisites:** Sequence of HST-201, HST-202 and HST-203 is taken in order

ONL	HST-203-01 3	35437				
	J. FLOWERS	\$504.00	\$52.00	\$56.94	\$612.94	
	Online textbook included in section fees.					

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

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

oc HST-280-01 3354

HST-280-01 335442 J. FLOWERS \$756.00 \$78.00 \$45.00 \$879.00V Required: Student Petition. Corequisite: Take the following CWE-281-06.

### Horticulture/Arboriculture/Landscape/Organic Farming

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

### HOR-122 GREENHOUSE I, 3 CREDITS

Environmental influences on plant growth, crop scheduling, greenhouse structures and equipment. Emphasis on foliage and flowering potted plant production.

ос	HOR-122-01	335383 TH	35383 TH		AM
	F. KILDERS	\$378.00	\$39.00	\$50.00	\$467.00

### HOR-131 TREE & SHRUB PRUNING, 3 CREDITS

Emphasis on dormant pruning of fruiting and ornamental plants. Pruning and training techniques for grapes, fruit trees, and both evergreen and deciduous ornamental trees and shrubs. Basic woody plant anatomy, growth and development.

ос	HOR-131-01	335384 T	8-11:50 AM		
	D. FRANEK	\$378.00	\$39.00	\$40.00	\$457.00

### HOR-133 HORTICULTURE PRACTICUM/WINTER, 2 CREDITS

Practical experience with seasonal (winter) horticulture activities in the areas of container nurseries, greenhouses, and landscape management.

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	Course Title, Credits							
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total			
Prerequisites: HOR-111									
ос	HOR-133-01	335387	М		8-11:50 A	M			
	F. KILDERS G. LOEFFLER		\$252.00	\$26.00	\$50.00	\$328.00			

2025/W

### HOR-136 ORGANIC FARMING PRACTICUM/WINTER, 3 CREDITS

Essential organic farming practices, including seasonal activities such as ground preparation and planning for crop production. Also covers farm business structures, financial management, recordkeeping, and marketing and distribution techniques. Field trips to area farms included. Class lecture, field trips, and lab are essential components of this course. This format has been selected to create a hands-on experience for each student in seasonal crop production.

OC HYB LCT HOR-136-01	335388 T		8-11:50	AM
D. ROSTAD	\$378.00	\$39.00	\$60.00	\$477.00

### 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	339506 T	1-3:50 PM		
	D. FRANEK	\$378.00	\$39.00	\$65.00	\$482.00

### HOR-216 INTEGRATED PEST MANAGEMENT, 3 CREDITS

Learn the components of, and develop an Integrated Pest Management (IPM) plan for landscape, nursery, greenhouse or organic farming. The plan will incorporate pest detection, control practices and an evaluation of effectiveness.

OC LCT	HOR-216-01	335391 W	9-11:50 AM		
	F. KILDERS	\$378.00	\$39.00	\$30.00	\$447.00

### HOR-222 HORTICULTURAL COMPUTER APPLICATIONS, 2 CREDITS

Utilizes database, spreadsheet, word-processing, PowerPoint, social media and other computer programs for record keeping and management and marketing for horticulture businesses.

Recommended Prerequisites: CS-120 or comparable computer skills

OC LCT HOR-222-01 335394 M 1-2:50 PM A. CHASTAIN \$252.00 \$26.00 \$25.00 \$303.00 In the event the class fills, we have a large wait list set and may offer a second section if needed. For those that feel your computer skills are equal to the class please contact april.chastain@clackamas.edu to discuss possibly waiving the class.

### HOR-227 PLANT IDENTIFICATION/WINTER, 4 CREDITS

Identification of conifers and broadleaf evergreens, shrubs, and groundcovers, including their cultural requirements in the landscape.

OC LCT	HOR-227-01	335396	т		8-11:50 AM	Л
	F. KILDERS		\$504.00	\$52.00	\$45.00	\$601.00
OC HYB LCT	HOR-227-02	335399	W		6-8:30 PM	
	J. WENTWOR PLATO	TH-	\$504.00	\$52.00	\$15.00	\$571.00

### HOR-229 INTRODUCTION TO LANDSCAPE DESIGN, 3 CREDITS

Introduction to landscape planning, including basic drafting skills, grading, drainage, and site planning.

ОС НҮВ	HOR-229-01	335400	T SU	6-9:00 PM 9-1:00 PM	
	M. MELCO Required field		\$378.00 1/25 or St	 \$45.00	\$462.00

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

•							
Course	Listing						
Course No	Course Title, Cre	dits					Course
	Section No C Instructor	Crs Reg.	Days (M,T,W Tuition	,TH.F,S,SU) <b>Fee</b>	Time Crs. Fee	Total	
HOR-230	EQUIPMENT C	PERAT	TION & M		ANCE, 2 CF	REDITS	Prerequ
machines i mowing eq chippers, a	on, safe operatio n horticultural op uipment, rototille nd skid steer.	erations	s. Includes	s hands o	on experienc		oc HOR-28
•	es: HOR-230L						On-the-j
ONL	HOR-230-01 J. WENTWORT PLATO	<b>335402</b> H-	\$252.00	\$26.00	\$75.00	\$353.00	are expe for up to Corequi
HOR-230L	EQUIPMENT C	PERAT	TION & M	AINTEN	ANCE LAB,	0	OC LCT
	for HOR-230 es: HOR-230						
oc	HOR-230L-01 S. CROSSWHIT J. WENTWORT PLATO	ΓE	<b>TH</b> \$0.00	\$0.00	<b>9-11:50 AM</b> \$0.00	<b>1</b> \$0.00	HOR-28 On-the-j are expe
OC	HOR-230L-02 S. CROSSWHI J. WENTWORT PLATO	ΓE	<b>TH</b> \$0.00	\$0.00	<b>1-3:50 PM</b> \$0.00	\$0.00	for up to Corequi OC LCT
HOR-231	IRRIGATION D	ESIGN	, 3 CRED	ITS			
•	of irrigation syste nd, above-ground					•	HOR-28 On-the-j
OC HYB	HOR-231-01 A. CHASTAIN	339565	<b>W</b> \$378.00	\$39.00	<b>6-8:50 PM</b> \$45.00	\$462.00	are expe for up to Corequi
HOR-237	DISEASE IDEN	ITIFICA	TION, 2 0	CREDITS	6		Require
	on of ornamental s, nurseries, and		seases w	hich occi	ur in greenho	ouses,	OC LCT
oc	HOR-237-01 E. ROBERTS Meets: 1/8-3/12	335411	<b>W</b> \$252.00	\$26.00	<b>3-4:50 PM</b> \$15.00	\$293.00	HOR-28
HOR-239	TREE CLIMBE	R TRAI	NING, 1 (	REDIT			On-the-j Students
covered thr	se of rope and sa rough lecture, dis experienced clir	addle tre cussior	ee climbin n, and field	g proced d practice	e. For beginr	ner to edits.	repeated Corequi Require
OC LCT	HOR-239-01 J. MENDEZ Meets: Saturda	<b>335412</b> ys 1/11	\$126.00	\$13.00	<b>8-12:45 PM</b> \$60.00	<b>1</b> \$199.00	OC LCT
HOR-251	HERBAL PRO	DUCTS	, 1 CRED	т			HOR-29
vinegar, sp	in making herbal ritzers and herba redients, methoc	l mixes	. Instruction	on includ	es the use c		This cou specific arboricu compreh
OC LCT	HOR-251-01 D. ROSTAD Meets: Fridays	<b>335414</b> 2/14-3/ <sup>-</sup>	\$126.00	\$13.00	<b>8-11:50 AM</b> \$60.00	<b>1</b> \$199.00	having ii repeated
HOR-260	ARBORICULT	URE II,	3 CREDIT	rs			
environmer developme assessmer	assessment and nt. Covers monet nt considerations its, and crew ma repare students f	ary and s, tree a nageme	l ecosyste ppraisals, ent. Toget	m values tree invention her with	s for trees, p entories, risł HOR-225, tł	nis	

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 ESPAÑOL: Enseñado en español LCT: Low-Cost Text

e No	Course Title, Credits						
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	W,TH.F,S,SU) <b>Fee</b>	Time Crs. Fee	Total	
uieit	es HOB-225						

2025/W

Prerequisites: HOR-225

C HOR-260-01 335415 T 2-4:50 PM J. WENTWORTH- \$378.00 \$39.00 \$40.00 \$457.00 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

 HOR-280-01
 335417

 G. LOEFFLER
 \$378.00
 \$39.00
 \$45.00
 \$462.00

 Required:
 Student Petition.
 Corequisite: Take the following

 CWE-281-06.
 Student Petition.
 Student Petition.

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

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

Corequisites: CWE-281

### OC LCT HOR-281-01 335423

G. LOEFFLER \$756.00 \$78.00 \$45.00 \$879.00 Required: Student Petition. Corequisite: Take the following CWE-281-06.

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

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

### Corequisites: CWE-281

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

OC LCT	HOR-282-01 33	5426			
	G. LOEFFLER	\$378.00	\$39.00	\$45.00	\$462.00
	Required: Studen	t Petition.			

### HOR-285 ORGANIC FARMING/CWE, 3 CREDITS

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

### Corequisites: CWE-281

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

oc LCT HOR-285-01 335429 G. LOEFFLER \$378.00 \$39.00 \$45.00 \$462.00 Required: Student Petition.

### HOR-290 SPECIAL TOPICS IN HORTICULTURE, 1 CREDIT

This course gives students an opportunity to gain knowledge in a specific area relevant to the field of horticulture, landscaping, arboriculture or organic farming. This topic will be pulled from a comprehensive list of areas identified by horticulture professionals as having importance for students pursuing work in the field. May be repeated for up to 6 credits. Required: Student Petition.

XHOR-

Course	Listing												2025/WI
Course No	Course Title, Cr	redits					Course No	Course Title, Cr	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 HYB LCT	HOR-290-01	335430	TWTHF M	S	3-4:50 PM		•	s conceptos bás			,		

\$339.00

hidráulicos y sistemas de riego. Esta sesión de aprendizaje de día completo cubre una visión general de los componentes del sistema de riego y cómo funcionan. Obtenga información sobre la soldadura y reparación de tuberías de PVC con disolventes, la instalación de boquillas y el ajuste de cabezas, la configuración y reparación de válvulas eléctricas, y las técnicas de cableado de campo y controlador. Combinada con la experiencia de la industria, esta clase sirve como una repaso para aquellos que planean tomar el examen de Técnico de Riego Certificado de la Asociación de Riego (IA). Este taller incluye apoyo matemático suplementario para los conceptos y ecuaciones que se tratan en clase.

OC ESPAÑOL	XHOR-C026S- 335776 I 01		1-5:00 PM 8-4:50 PM
	J. RODRIGUEZ CRUZ		
	entros: 3/7, 1pm-		
	5pm y 3/8, 8pm-5pm. Re	egístrese a	
	https://bit.ly/horteventbri	te Tarifa: \$120. P	óngase en
	contacto con April en ap preguntas.	ril.chastain@clac	kamas.edu si tiene

#### **XHOR-CONIFEROUS TREE IDENTIFICATION, 0.30 CEUS** C038

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 coniferous trees and how they're used in our landscape. We'll finish with a low-stakes guiz 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-C038- 335779 S 01	9-12:00 PM
	J. WENTWORTH-PLATO Required: Student Petition. Meet Register at https://bit.ly/hortevent Loretta at lorettam@clackamas.e	brite Fee: \$20. Contact

#### **XHOR-PESTICIDE CORE TRAINING/WINTER, 0.40 CEUS** C06B

This training qualifies for 4 CORE recertification credits as required by Oregon Department of Agriculture. Fulfills yearly recertification requirement for Private Pesticide license holders, and can be used towards total needed for Public and Commercial license requirements. Our Fall and Winter courses are different, so both will count towards recertification in the same year.

ос	XHOR-C06B-	335782 F	1-4:50 PM		
	01				
	G. COOKE				
	Required: Student Petition. Meets: 2/7. Fee: \$40. Register at https://bit.ly/horteventbrite Contact Loretta Mills at				
	lorettam@clac	kamas.edu witl	n questions.		

# Human Services

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

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

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

ESPAÑOL: Enseñado en español LCT: Low-Cost Text

0004 Beekeeping is growing in popularity because of its importance in pollination, honey production, and as a relaxing hobby. This 2 day

**BEEKEEPING SCHOOL, 0 CREDIT** 

J. WENTWORTH-

March 18-22, 2025.

PLATO

workshop is intended to prepare new and beginner beekeepers with knowledge, demonstrations, and lists of resources. Topics will include: basic bee biology, proper equipment, handling of bees, hive pest and disease control, feeding, and more. Co-sponsored by the Portland Metro Beekeepers Association.

\$126.00 \$13.00 \$200.00

Required: Student Petition. Hybrid. Meets: Mondays 1/6,

at Colorado State University, Fort Collins, CO, traveling

1/13, 2/3, 3/10; plus additional hours online. Special Topic:

Prepare for National Collegiate Landscape Competition held

oc	XHOR-0004- 01	335767 S	9-3:00 PM			
	TBA					
		alant Datition Mar				
	Required: Student Petition. Meets: Saturdays 2/1 & 2/8. Register at https://bit.ly/horteventbrite Fee \$50. Contact					
	Loretta at lore	ettam@clackamas	.edu with questions.			

#### **XHOR-**LEYES Y SEGURIDAD DE PLAGUICIDAS, C007S ESPAÑOL/PESTICIDE LAWS & SAFETY, SPANISH, 2.00 CEUS

Leyes y regulaciones relacionadas con la seguridad, manejo y mantenimiento de registros y almacenamiento de plaguicidas. Técnicas de selección de productos, incluyendo opciones químicos y no químicos, seguridad de aplicador y protección del medio ambiente incluido. Prepárese para las leyes de pesticidas de Oregón y Examen de seguridad. Laws and regulations related to safety, handling, recordkeeping and storage of pesticides. Techniques for product selection, including chemical and non-chemical options, applicator safety and environmental protection included. Prepare for the Oregon Pesticide Laws & Safety exam.

ос	XHOR-C007S- 335770 F	1-4:50 PM
	01 L. CERVANTES	
	Required: Student Petition. Meets 2/7-3/14. Fee: \$189, does not include	
	at https://bit.ly/horteventbrite Con lorettam@clackamas.edu with gu	
	iorenameciackamas.edu with qu	esuons.

#### XHOR-**JAPANESE-STYLE PRUNING, 0.40 CEUS** C010

Learn the art of Japanese Pruning 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 is a hands-on class, so please bring your own gloves and pruning tools.

#### 00 XHOR-C010- 335772 F 1-4:50 PM 01 M. MIZUNO Required: Student Petition. Meets: 3/14. Fee: \$40. Eventbrite registration at https://bit.ly/horteventbrite Contact Loretta Mills at lorettam@clackamas.edu with questions.

#### **XHOR-**INSTALACIÓN Y MANTENIMIENTO DEL SISTEMA DE C026S **RIEGO PAISAJÍSTICO EN ESPAÑOL, 1.20 CEUS**

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) <b>Fee</b>	Time Crs. Fee	Total	
ONL LCT	HS-103-01	335407					

# M. MANEWAL \$252.00 \$26.00 \$0.00 \$278.00

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

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

### ONL LCT HS-104-01 335409

	M. MANEWAL	\$252.00	\$26.00	\$0.00	\$278.00

### HS-154 COMMUNITY RESOURCES, 3 CREDITS

Explores local community social service resources. Focuses on local agencies and programs, including services provided, eligibility criteria, mission, and policies of these agencies. Includes instruction in identifying client needs, various referral processes, and historical, political and social trends.

ос нув	LCT HS-154-01	335410 W		1-2:50 PM	
	Y. SMITH	\$378.00	\$39.00	\$0.00	\$417.00
ONL	HS-154-02	335413			
	Y. SMITH	\$378.00	\$39.00	\$0.00	\$417.00

### 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.

OC HYB LCT HS-156-01 335416 W		10-11:50 AM		
Y. SMITH	\$378.00	\$39.00	\$0.00	\$417.00

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

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

ONL LCT	HS-211-01	335419			
	Y. SMITH	\$126.00	\$13.00	\$0.00	\$139.00

### 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

OC HYB LCT HS-216-01	335420 T	10-11:50 AM		:50 AM	
C. BAKER	\$378.00	\$39.00	\$0.00	\$417.00	
This class will meet on five Tuesdays from 10:00am- 11:50am. (1/7, 1/21, 2/4, 2/18, 3/4).					

### HS-256 ADVANCED INTERVIEWING SKILLS WITH THEORY, 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,V Tuition	W,TH.F,S,SU) <b>Fee</b>	Time Crs. Fee	Total

2025/W

This course is designed to help human service students further develop and deepen their skills and understanding of interviewing in the human service field. Course will build on skills learned in HS-156, incorporating the use of behavior change theories to guide the helping process. **Prerequisites:** HS-156 with a C or better

### Prerequisites: H5-156 with a C or better

OC HYB	HS-256-01	335421 TH		10-11:5	50 AM
	C. BAKER	\$378.00	\$39.00	\$0.00	\$417.00
		will meet on five Th 9, 1/23, 2/6, 2/20, 3		from 10:	00am-

### HS-270 HUMAN SERVICES PRACTICUM SEMINAR, 2 CREDITS

Focuses on field experience for students in a variety of human service settings, paralleling duties regularly assigned to human service workers. The course offers students a chance to discuss issues faced in the field, and apply human services concepts and theories to their work. Students will reflect on program curriculum and how their knowledge influences the work in the field. May be repeated for up to 6 credits. Required: Student Petition.

### Corequisites: GRN-280, HS-280, HS-281, or HS-282

OC HYB	HS-270-01	339527 T	1-2:50	РМ
	C. BAKER	\$252.00	\$26.00 \$0.00	\$278.00
	Required: St	udent Petition. This	section will mee	t on five
	Tuesdays fro	m 1-2:50pm. (1/7, <sup>-</sup>	1/21, 2/4, 2/18, 3	/4).

### 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

Corequ	isites: HS-270				
ос	HS-280-01	335422			
	J. LOVELESS	\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Stud	lent Petition.			

### 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

ос	HS-281-01	335424	ļ			
	J. LOVELESS		\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Stud	dent Pet	ition.			

### 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

ос	HS-282-01	335425				
	J. LOVELESS		\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Stuc	lent Peti	tion.			

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) <b>Fee</b>	Time Crs. Fee	Total	

### **Humanities**

### HUM-160 FAITH & REASON, 4 CREDITS

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

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

ONL	HUM-160-01	335445			
	J. SHELTON	\$504.00	\$52.00	\$0.00	\$556.00

### Industrial Maintenance Technology

### IMT-120 INDUSTRIAL MACHINERY I, 3 CREDITS

This course will introduce students to industrial machinery and power equipment with respect to industrial maintenance. Students will learn the fundamentals of electro-mechanical machinery repair, assembly and disassembly and how to work safely around mechanical equipment and power tools. Topics discussed will include hand and power tools, preventative maintenance, power transmission systems, fasteners and torque.

Recommended Prerequisites: MTH-050 or higher

oc	IMT-120-01	335441	TTH		5:30 -8:20	PM
	C. CONNORS		\$378.00	\$39.00	\$153.75	\$570.75

# IMT-230 INTRODUCTION TO HEATING, VENTILATION, AND AIR CONDITIONING, 3 CREDITS

This course will introduce students to commercial and residential Heating, Ventilation, and Air Conditioning (HVAC) systems. Students will study HVAC terminology, heating systems, the refrigeration cycle, low voltage controls, basics of air flow and ventilation as well as safety practices while working on these systems. There will be many opportunities for hands-on experience using trainer devices in a lab setting that will include exercises for troubleshooting, understanding controls, and basic system performance and function.

oc	IMT-230-01	335443 TTH		2-4:50 PM	
	C. CONNORS	\$378.00	\$39.00	\$131.25	\$548.25

### Journalism

### J-211 MASS MEDIA & SOCIETY, 4 CREDITS

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

Recom	mended Prerequ	uisites: WRD-0	J98 or placem	ient in WR	-121Z
ONL	J-211-01	334701			
	K. DOSS	\$50	4.00 \$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

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
OC LCT	J-215-01	334703	MW		1-2:50 PM	
	M. JONES		\$504.00	\$52.00	\$10.00	\$566.00

2025/M

### J-216 WRITING FOR MEDIA, 4 CREDITS

Introduces students to the fundamentals of writing for various media including journalism, public relations and other communications-related fields. Topics include news gathering, interviewing and media law, with an emphasis on writing for the web, print, broadcast and social media.

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

OC HYB LCT J-216-01 334707 W		10-11:50 AM		
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.

### Prerequisites: J-215

Recommended Prerequisites: Placement in WR-121Z

OC LCT	J-225-01	334709 MW		1-2:50 PM	
	M. JONES	\$504.00	\$52.00	\$0.00	\$556.00

### J-226 INTRODUCTION TO COLLEGE NEWS: DESIGN & PRODUCTION, 4 CREDITS

Students work as designers and media creators for The Clackamas Print, the college's award-winning student newspaper, website and social media sites. Students design the student newspaper, create social media posts and produce related multimedia content using Adobe software and other products. May be repeated for up to 8 credits.

### Recommended Prerequisites: Placement in WR-121Z

OC LCT	T J-226-01 334712 T		1-4:50 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

OC LCT	J-227-01	334716 T		1-4:50 P	М
	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 LCT	J-228-01	334719 T		1-4:50 PM			
	M. JONES	\$504.00	) \$52.00 \$0.00		\$556.00		

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

Course No	Course Title, C	Credits					Course No	Course Title, C	Credits
	Section No Instructor		Days (M,T,W Tuition	,TH.F,S,SU) <b>Fee</b>	Time Crs. Fee	Total		Section No Instructor	Crs Reg. D T
J-235	ADVANCED	COLLEG			IG &		Prerequisi	tes: MTT-111	
	PHOTOGRA	PHY, 4 CF	REDITS				oc	MTT-112-01	335493 N
	news writing a							J. TRAVER	\$5
	in the student						MTT-121	CNC I: SET-L	JP AND OP
	apply Associated Press style, use journalism ethics and cover a variety of topics and events in words and photos to build their journalism						This is the	first course in t	he CNC se
portfolios.	May be repeat	ed for up to	o 8 credit	s.				ling how to pro	
	i <b>tes:</b> J-225							ters. Students	
Recomme	nded Prerequ	isites: Pla	cement i	n WR-12	1Z			et-up and opera	
OC LCT	J-235-01	334723			1-2:50 P				
	M. JONES		\$504.00	\$52.00	\$0.00	\$556.00	oc	MTT-121-01 J. CARLSTON	335495 T √ \$!
J-280	JOURNALIS	M/CWE, 2	-6 CRED	ITS				0.0/11/20101	ų y
Cooperativ	ve work experie	ence. Provi	des the s	student w	/ith on-the	-iob	MTT-122	CNC II: PRO	GRAMMINO
	e and training r							second course	
experience								programming f	
Corequisi	<b>tes:</b> GWE-281		-280-01 334726						
	J-280-01	334726						ration skills. Th	
Corequisi			\$756.00	\$78.00	\$45.00	\$879.00V	probing, 4-	axis mill progra	
Corequisi	J-280-01			\$78.00	\$45.00	\$879.00V	probing, 4- process do	axis mill progra	mming and

#### J-280A **PUBLIC RELATIONS/CWE, 2-6 CREDITS**

Cooperative work experience. Provides the student with on-the-job experience and training related to public relations. Required: Student Petition.

ONL	J-280A-01	334736			
	M. JONES	\$756.00	\$78.00	\$45.00	\$879.00V
	Required: St	udent Petition.			

### Library

#### **INTRODUCTION TO LIBRARY RESEARCH, 1 CREDIT** LIB-101

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 researchbased college assignments and real-life research needs.

ONL LCT	LIB-101-01 TBA Meets: 1/6-3/	<b>335444</b> \$0.00 8.	\$0.00	\$0.00	\$0.00
ONL LCT	LIB-101-02 TBA Meets: 1/6-3/	<b>335447</b> \$0.00 8.	\$0.00	\$0.00	\$0.00
ONL LCT	<b>LIB-101-03</b> TBA Meets: 1/13-3	<b>335448</b> \$0.00 3/15.	\$0.00	\$0.00	\$0.00

# Machine Tool Technology

#### MTT-111 MANUAL MACHINING I, 4 CREDITS

This course is an introduction to machine tool operation and precision measurement. It covers elementary operation of drill presses, bandsaws, lathes, and milling machines. The course includes external threading. Recommended Prerequisite or Corequisite: MFG-104 and MTH-050

OC	MTT-111-01	335491 MW		5-8:50 PM	Л
	J. TRAVER	\$504.00	\$52.00	\$205.00	\$761.00

### 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.

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	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
Prerequisit	es: MTT-111					
ос	MTT-112-01	335493	MW		8-11:50	AM
	J. TRAVER		\$504.00	\$52.00	\$205.00	\$761.00

### PERATION, 4 CREDITS

equence. Students will learn basic p and operate both CNC milling and arn G & M codes related to basic gned for persons with little or no

00	MTT-121-01	335495 TTH		5:30 -9:20	PM
	J. CARLSTON	\$504.00	\$52.00	\$205.00	\$761.00

### IG AND OPERATION, 4 CREDITS

C sequence. Students will learn and turning while they build their setso be an introduction to set-up d machining, sub-programming and

MTH-050

ос	MTT-122-01	335501 TTH		8-11:50	M
	J. CARLSTON	\$504.00	\$52.00	\$205.00	\$761.00

### MTT-242 CAD/CAM III. 4 CREDITS

This course is the third in the Computer-Aided Machining (CAM) series and will build on the previous course. Students will use CAD/CAM software to produce CNC parts. There will be an emphasis on multiple operations on both CNC milling and turning machines. An introduction to five-axis and mill/turn machining will be included.

### Prerequisites: MTT-241

ос	MTT-242-01	335503	ттн		12-3:50 F	РМ
	C. LETTENMA	AIER	\$504.00	\$52.00	\$205.00	\$761.00

#### MTT-253 **5-AXIS MACHINING, 3 CREDITS**

This class will introduce students to 5-axis CNC milling machines, their programming, and setup procedures. The course will explore limitations, advantages, and configurations of typical 5-axis machines including rotation style and set-up orientation. Post processing and virtual machine simulation will also be discussed.

### Prerequisites: MTT-122

ос	MTT-253-01	335504	MW		1-3:50 PM	
	C. LETTENMA	IER	\$378.00	\$39.00	\$153.75	\$570.75

### MTT-268 CAPSTONE MACHINING I, 3 CREDITS

This is the first of the capstone project series and will allow students to demonstrate mastery of core skills that are learned in the machining program including: CNC setup and operation, manual machining, CAM programming, and surface grinding. This class will focus on importing models, process development, and programming components to be run on a CNC machine tool.

Prerequisites: MTT-113, MTT-122, and MTT-141

Recommended Corequisite: MTT-242

oc	MTT-268-01	335506	MW		5:30 -8:20	PM
	C. LETTENMA	IER	\$378.00	\$39.00	\$153.75	\$570.75

# Manufacturing Technology

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

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,) Tuition	N,TH.F,S,SU) Fee	Time Crs. Fee	Total	

### 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 3354	53 MW	2-4:50 PM	Λ
	J. CARLSTON	\$378.00 \$39.0	0 \$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.

OC HYB	MFG-104-01	335455 TTH		3-4:15 PM	
	J. CARLSTON	\$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	335457 F		2-4:50 PM	
	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	335465	F		8-10:50	AM
	A. ARISTIZAB	AL	\$378.00	\$39.00	\$270.13	\$687.13
	Online textboo	k include	ed in sect	ion fees.		

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

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

ос	MFG-110-01	335467 TBA			
	TBA	\$378.00	\$39.00	\$153.75	\$570.75V
	Required: Stu	dent Petition.			

### MFG-131 BASIC ELECTRICITY II, 3 CREDITS

Covers application of several theories learned in previous term. Additional topics will include: motors, controls, alignment, pulleys and gears, troubleshooting theory, power distribution and lighting, electrical wiring and schematics.

Recommended Prerequisites: MFG-130 and MTH-050

OC	MFG-131-01	335472 F		5-7:50 PM		
	B. KARM	\$378.00	\$39.00	\$153.75	\$570.75	

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

### MFG-140 PRINCIPLES OF FLUID POWER, 3 CREDITS

Course provides students with instruction in the use of hydraulics and pneumatics in industry, covering the fundamentals of hydraulics, basic components (valves, cylinders, pumps, motors, piping, fluid, fluid conditions, and accessories).

Recommended Prerequisites: MTH-050

OC HYB	MFG-140-01	335474 MW		5-7:50 PM	
	C. CONNORS	\$378.00	\$39.00	\$153.75	\$570.75

### MFG-209 PROGRAMMING & AUTOMATION FOR MANUFACTURING, 3 CREDITS

A high-level computer literacy course for technologists. The focus of this course is on structured computer programming in the Visual Basic language and the application of programming industrial automation. Basic knowledge of the PC required.

Recommended Prerequisites: MFG-109

REM	MFG-209-01	335477 TTH		3-4:50 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	335479 TTH	335479 TTH 1		
	M. MATTSON	\$378.00	\$39.00	\$153.75	\$570.75

### MFG-264 CMM SET-UP AND OPERATION, 2 CREDITS

In this last course of the precision measurement sequence, students will learn to properly set-up and operate a Coordinate Measuring Machine (CMM) and design measurement plans for optimal metrology output.

### Prerequisites: MFG-104

OC	MFG-264-01	335480 TTH		5-6:50 PN	Λ
	P. WANNER	\$252.00	\$26.00	\$103.00	\$381.00

### MFG-272 MASTERCAM MILL II, 4 CREDITS

Students construct three-dimensional geometric models using solids and surface modeling techniques. Students program models using advanced multi-axis programming techniques utilizing all aspects of roughing and finishing. Projects verified with solids toolpath verification.

Recommended Prerequisites: MFG-271 or prior experience

REM	MFG-272-01	335482	TTH		4:30 -8:20	PM
	C. LETTENMA	IER	\$504.00	\$52.00	\$205.00	\$761.00

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

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

### Corequisites: CWE-281

CWE-281-06.

MFG-280-01 335484 C. CONNORS \$756.00 \$78.00 \$75.00 \$909.00V Required: Student Petition. Corequisite: Take the following

### **Mathematics**

ONL

### MTH-010 FUNDAMENTALS OF ARITHMETIC I, 4 CREDITS

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

Course No	Course Title,	Course Title, Credits						
	Section No Instructor	Crs Reg.	Days (M,T, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total		
This first course in arithmetic reviews operations on whole numbers,								

basic fractions, decimals, measurement, and basic geometry.

OC LCT	MTH-010-01	335446 MW		1-2:50 PM	
	TBA	\$504.00	\$52.00	\$20.00	\$576.00

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

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

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

HAR LCT	MTH-020-01	335454	TTH		10-11:50	D AM
	M. NICKAS		\$504.00	\$52.00	\$20.00	\$576.00
ONL LCT	MTH-020-02	335459				
	M. NICKAS		\$504.00	\$52.00	\$20.00	\$576.00
	Meets: 1/21-3/	/22.				

### 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

ос нув LCT MTH-050-01	335462	2 TTH		10-11:20	D AM
M. CHASE		\$504.00	\$52.00	\$20.00	\$576.00
ос нув LCT MTH-050-02	335466	5 MW		3-4:20 P	M
A. ARISTIZA	BAL	\$504.00	\$52.00	\$20.00	\$576.00
ос нув LCT MTH-050-03	335469	TTH		1-2:20 P	M
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-	335475	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 HYB LC	TMTH-060-01	335478	ттн		10-11:20 A	M
	E. MEUSER		\$504.00	\$52.00	\$20.00	\$576.00
OC HYB LC	TMTH-060-10	335485	TBA			
	E. KELLY		\$504.00	\$52.00	\$20.00	\$576.00
	This is an onli	ne/async	hronous o	class that	t meets for i	n-
	person testing	dates of	nly.			
HAR LCT	MTH-060-15	335486	TTH		9-10:50 Al	M
	A. ARISTIZAB	AL	\$504.00	\$52.00	\$20.00	\$576.00
HAR LCT	MTH-060-16	335487	TTH		6-7:50 PM	
	B. WEBBER		\$504.00	\$52.00	\$20.00	\$576.00

### MTH-065 ALGEBRA II, 4 CREDITS

Course 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/W

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.

	P	rerequisites:	MTH-060 with a	C or better, or p	lacement in MTH-065
--	---	---------------	----------------	-------------------	---------------------

OC HYB LCT	MTH-065-01	335494	MW		1-2:20 PM	
	A. HALL		\$504.00	\$52.00		\$576.00
OC HYB LCT	MTH-065-02	335496	TTH		10-11:20 A	M
	A. HALL		\$504.00	\$52.00	\$20.00	\$576.00
OC HYB LCT	MTH-065-10	335497	TBA			
	A. ARISTIZAB	AL	\$504.00	\$52.00	\$20.00	\$576.00
	This is an onlir	ne/async	hronous o	class that	t meets for in	ו-
	person testing	dates or	nly.			
HAR LCT	MTH-065-15	335498	TTH		9-10:50 AN	Λ
	A. ARISTIZAB	AL	\$504.00	\$52.00	\$20.00	\$576.00
HAR LCT	MTH-065-16	335500	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	335502 MW		3-4:20 P	М
	T. BIEBER	\$378.00	\$39.00	\$20.00	\$437.00

### MTH-082C WASTEWATER MATH II, 1 CREDIT

Quantitative component to understanding analysis and operations of secondary wastewater systems. Flow rate, chemical dosage, treatment plant loading, treatment process efficiency, unit conversion and process control.

### Prerequisites: MTH-082A and MTH-082B

Corequisites: WET-120

OC	MTH-082C-01	335488	М		5-5:50 PM	
	M. LAFORCE	\$	\$126.00	\$13.00	\$10.00	\$149.00
	Remote optior	ıs availabl	le with th	is sectio	n.	

### MTH-082D WATERWORKS MATH II, 1 CREDIT

Problem solving for waterworks applications. Introduction to contact-time (CT) calculations, how to determine chemical concentrations, the pounds formula, and basic hydraulics.

### Prerequisites: MTH-082A and MTH-082B

Corequisites: WET-121

OC	MTH-082D-01 335490	Т	5-5:50 PM	
	J. NURMI	\$126.00 \$13.00	\$10.00	\$149.00
	Remote options availa	ble with this sectio	n.	

### 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

ос нув LCT МТН-095-01	335507 MW		8-9:20 A	М
J. HEVEL	\$504.00	\$52.00	\$20.00	\$576.00
ос нув LCT MTH-095-02	335512 MW		10-11:20	AM
J. HEVEL	\$504.00	\$52.00	\$20.00	\$576.00
ос нув LCT MTH-095-03	335514 TTH		1-2:20 P	М
E. MEUSER	\$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 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	
OC HYB LCT	MTH-095-04	335515	MW		1-2:20 PM		
	B. WEBBER		\$504.00	\$52.00	\$20.00	\$576.00	
OC HYB LCT	MTH-095-10	335518	TBA				
	M. JOSI		\$504.00	\$52.00	\$20.00	\$576.00	
	This is an onli person testing			class tha	t meets for i	n-	
HAR HYB	MTH-095-15	335521	MW		6-7:20 PM		
LCT	B. WEBBER This is an onli dates only.	ne sectio		\$52.00 eets for in	,	\$576.00 ting	

### 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

ос нув LCT МТН-098-01 335	5522 MW		10-11:20	AM
M. YANNOTTA	\$504.00	\$52.00	\$20.00	\$576.00
ОС НҮВ LCT MTH-098-02 335	5524 TTH		1-2:20 PM	Л
B. WEBBER	\$504.00	\$52.00	\$20.00	\$576.00
ОС НҮВ LCT MTH-098-10 335	5528 TBA			
K. PHILLIPS	\$504.00	\$52.00	\$20.00	\$576.00

### MTH-105Z MATH IN SOCIETY, 4 CREDITS

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

 $\ensuremath{\textbf{Prerequisites:}}\xspace$  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	335532			1-2:20 PM	
	S. VALDES- FERNANDEZ		\$504.00	\$52.00	\$20.00	\$576.00
OC HYB LCT	MTH-105Z-02	335536	TTH		1-2:20 PM	
	S. VALDES-		\$504.00	\$52.00	\$20.00	\$576.00
	FERNANDEZ					
OC HYB LCT	MTH-105Z-03	338053	MW		3-4:20 PM	
	S. VALDES-		\$504.00	\$52.00	\$20.00	\$576.00
	FERNANDEZ					
ONL LCT	MTH-105Z-10	335537				
	M. YANNOTT	4	\$504.00	\$52.00	\$20.00	\$576.00
ONL LCT	MTH-105Z-11	335538				
	M. YANNOTT/	4	\$504.00	\$52.00	\$20.00	\$576.00
ONL LCT	MTH-105Z-12	339535				
	M. NICKAS		\$504.00	\$52.00	\$20.00	\$576.00

### MTH-111Z PRECALCULUS I: FUNCTIONS, 4 CREDITS

### 2025/W

Course No	Course Title, Cr	redits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) <b>Fee</b>	Time Crs. Fee	Total

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

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

OC LCT	MTH-111Z-01	335541	MW		1-2:50 PM	
	M. PRICE		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	MTH-111Z-03	335545	MW		10-11:50 A	M
	S. PRUYN		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	MTH-111Z-04	335546	TTH		1-2:50 PM	
	M. PRICE		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	MTH-111Z-05	335547	TTH		3-4:50 PM	
	K. AMREIN		\$504.00	\$52.00	\$20.00	\$576.00
OC HYB LCT	MTH-111Z-10	335549	TBA			
	C. WARNER		\$504.00	\$52.00	\$20.00	\$576.00
	This is an onli	ne/async	hronous (	class tha	t meets for i	n-
	person testing	dates o	nly.			
HAR LCT	MTH-111Z-15	335551	MW		6-7:50 PM	
	K. PHILLIPS		\$504.00	\$52.00	\$20.00	\$576.00

### MTH-112Z PRECALCULUS II: TRIGONOMETRY, 4 CREDITS

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

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

OC LCT	MTH-112Z-01	335553	MW		1-2:50 P	M
	S. PRUYN		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	MTH-112Z-02	335557	TTH		10-11:50	D AM
	F. CARTER		\$504.00	\$52.00	\$20.00	\$576.00
OC HYB LCT	MTH-112Z-10	335559	TBA			
	M. HAUGEN		\$504.00	\$52.00	\$20.00	\$576.00
	This is an online person testing			class tha	t meets fo	or in-
HAR LCT	MTH-112Z-15	335560	TTH		6-7:50 P	M
	F. CARTER		\$504.00	\$52.00	\$20.00	\$576.00

### MTH-211 FUNDAMENTALS OF ELEMENTARY MATH I, 4 CREDITS

A course designed to teach students to understand the basic concepts of mathematics and provide ideas for teaching these concepts to elementary school children. Focuses on math anxiety and mindset, problem-solving, numeration systems, arithmetic, and number theory. **Prerequisites:** MTH-095 with a C or better, or placement in MTH-111Z **Recommended Prerequisites:** WRD-098 or placement in WR-121Z

			. h		
HAR LCT	MTH-211-15	335561 TTH		6-7:50 PM	
	S. VALDES- FERNANDEZ	\$504.00	\$52.00	\$20.00	\$576.00

### MTH-212 FUNDAMENTALS OF ELEMENTARY MATH II, 4 CREDITS

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

Course	Listing									
Course No	Course Title,	Credits					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 Tuitio
	lesigned to te					oncepts of	OC HYB LCT	MTH-252-02	335587	<b>MW</b>

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

OC LCT	MTH-212-01	335563 MW		10-11:5	D AM
	E. KELLY	\$504.00	\$52.00	\$20.00	\$576.00
	This section v	vill have three in-pe	erson, pro	octored e	xams.

### MTH-231 ELEMENTS OF DISCRETE MATHEMATICS, 4 CREDITS

Students will be introduced to discrete structures and techniques for computing. The course, which is the first 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: Sets; Graphs and Trees; Functions: properties, recursive definitions, solving recurrences; Relations: properties, equivalence, partial order; Proof techniques: inductive proof; Counting techniques and discrete probability.

### Prerequisites: MTH-251

oc	MTH-231-01	334791 TTH		3-4:50 PM	
	J. MILLER	\$504.00	\$52.00	\$20.00	\$576.00

### MTH-244 STATISTICS II, 4 CREDITS

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

Prerequisites: STAT-243Z with a C or better

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

OC LCT	MTH-244-01	335566 MW	1-2:50 PM		
	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

ОС НҮВ LCT MTH-251-01	335569 TTH		8-9:50 AM	
B. HSIAO	\$630.00	\$65.00	\$20.00	\$715.00
ОС НҮВ LCT MTH-251-02	335577 MW		1-2:50 PM	
M. PARTNOF	\$630.00	\$65.00	\$20.00	\$715.00
OC HYB LCT MTH-251-10	335581 TBA			
E. KELLY	\$630.00	\$65.00	\$20.00	\$715.00
This is an onlir	ne/asynchronous	class tha	t meets for i	n-
person testing	dates only.			

### 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	335582 TTH 10-11:5		0 AM	
M. PARTNOF	\$630.00	\$65.00	\$20.00	\$715.00

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 Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
OC HYB LCT	MTH-252-02	335587	MW		3-4:50 PM	
	M. PARTNOF		\$630.00	\$65.00	\$20.00	\$715.00

2025/W

### MTH-256 DIFFERENTIAL EQUATIONS, 4 CREDITS

This course is an introduction to the study of first-order differential equations, first-order systems of differential equations, linear systems of differential equations, and applications of these topics. **Prerequisites:** MTH-252 with a C or better

ос нув LCT MTH-256-01	335593 W		9-11:50	AM
A. HALL	\$504.00	\$52.00	\$20.00	\$576.00

### MTH-275 A BRIDGE TO UNIVERSITY MATHEMATICS, 3 CREDITS

This is a bridge course designed to help students transition from computation-based mathematics to the more proof-based curriculum typical of junior and senior collegiate-level mathematics courses. Students will construct and validate proofs, explore the nature of mathematics, and navigate some of the systems and conventions used within the mathematics community. May be repeated for up to 6 credits. **Prerequisites:** MTH-251

REM LCT	MTH-275-01 3394	155 S		1-2:50 PM	1
	M. YANNOTTA	\$0.00	\$0.00	\$0.00	\$0.00
	Required: Student F	Petition.			

### **Medical Assistant**

For more information, contact Health Sciences at <u>healthsciences@clackamas.edu</u>

### 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	334547	,			
	S. DAVENPO	RT	\$252.00	\$26.00	\$0.00	\$278.00

### MA-156 PHLEBOTOMY I, 1 CREDIT

This course is designed to introduce students to the fundamental skills required for phlebotomy as a medical assistant. Students will become familiar with phlebotomy equipment and learn about basic blood collection procedures. The course will focus on the basic skills needed for patient interactions, documentation, and various phlebotomy techniques.

Prerequisites: MA-150, MA-152, MA-152L, MA-154, and MA-158 Corequisites: MA-156L, MA-160, MA-162, MA-162L, MA-164, MA-164L, and MA-168 Required: Student must be enrolled in current Medical Assistant cohort

nequire	<b>u</b> . Student must	De enrolleu in current Medical Assistant conort	
ONL	MA-156-01	334553	
	T BOYD	\$126.00 \$13.00 \$0.00 \$139.0	n

I. BOYD	\$126.00	\$13.00	\$0.00	\$139.00
Required: Stude	nt Petition.			

### MA-156L PHLEBOTOMY I LAB, 1 CREDIT

This lab is designed to apply the hands-on skills that were introduced to students in the lecture class. This lab is designed to introduce students to the fundamental skills required for phlebotomy as a medical assistant. Students will become familiar with phlebotomy equipment and learn about basic blood collection procedures. The course will focus on the basic skills needed for patient interactions, documentation, capillary punctures and various phlebotomy techniques.

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	
Prereguisites: MA-150, MA-152, MA-152L, MA-154, and MA-158							

Corequisites: MA-156, MA-160, MA-162, MA-162L, MA-164, MA-164L, and MA-168

**Required:** Student must be enrolled in current Medical Assistant cohort

-							
HAR	MA-156L-01	334554 T		9-12:00 F	M		
	T. BOYD	\$126.00	\$13.00	\$100.00	\$239.00		
	Required: Stu	Ident Petition.					
HAR	MA-156L-02	334555 TH		9-12:00 F	M		
	T. BOYD	\$126.00	\$13.00	\$100.00	\$239.00		
	Required: Stu	Required: Student Petition.					

### MA-160 INSURANCE & HEALTH INFORMATION MANAGEMENT, 3 CREDITS

This course introduces medical assisting students to practical applications for billing medical insurance both manually and electronically. The course is designed to instruct the student in all phases of billing and insurance procedures and entry-level Electronic Health Record software for the management of medical records. The students are also introduced to basic ICD-10 Diagnosis and Procedural coding skills. This course is required for medical assistant students. This course does not meet the requirements for Insurance Coder certification.

Prerequisites: MA-150, MA-152, MA-152L, MA-154, and MA-158 Corequisites: MA-156, MA-156L, MA-162, MA-162L, MA-164, MA-164L, and MA-168

Required: Student must be enrolled in current Medical Assistant cohort

ONL MA-160-01 334556 S. PARKER \$378.00 \$39.00 \$55.00 \$472.00 Required: Student Petition. Restricted to current MA cohort students.

### MA-162 EXAMINATION ROOM TECHNIQUES II, 3 CREDITS

This course builds upon the foundational skills introduced in Examination Room Techniques I. The course will focus on advanced medical assisting skills such as medication administration, patient care interactions, immunization, special exam procedures, EKGs, and assisting providers. This course will incorporate specialty clinics and advanced procedures.

Prerequisites: MA-150, MA-152, MA-152L, MA-154, and MA-158 Corequisites: MA-156, MA-156L, MA-160, MA-162L, MA-164, MA-164L, and MA-168

**Required:** Student must be enrolled in current Medical Assistant cohort

ONL	MA-162-01	334557	,			
	S. PARKER		\$378.00	\$39.00	\$145.00	\$562.00
	Required: Stu	dent Peti	ition.			

### MA-162L EXAMINATION ROOM TECHNIQUES LAB II, 1 CREDIT

This lab is designed to apply the hands-on skills that were introduced to students in the lecture class. This lab will cover hands-on skills required for medical assisting in an exam room by adding advanced procedures to the basic rooming techniques. The lab will include advanced medical assisting skills such as medication administration, patient care interactions, immunization, special exam procedures, EKGs, and assisting providers. This lab will incorporate specialty clinics and advanced procedures.

Prerequisites: MA-150, MA-152, MA-152L, MA-154, and MA-158 Corequisites: MA-156, MA-156L, MA-160, MA-162, MA-164, MA-164L, and MA-168

Required: Student must be enrolled in current Medical Assistant cohort

HAR HYB	MA-162L-01 334558	З Т		9-12:00 P	М
	S. DAVENPORT S. PARKER	\$126.00	\$13.00	\$160.00	\$299.00
	Required: Student Pet	ition.			

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, Credit	ts				
	Section No Crs Instructor	Reg.	Days (M,T,V Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total
HAR HYB	MA-162L-02 334	4559	TH		9-12:00 P	M
	S. DAVENPORT		\$126.00	\$13.00	\$160.00	\$299.00
	S. PARKER					
	Required: Student	t Petit	tion.			

2025/WI

### MA-164 CLINICAL LAB PROCEDURES I, 1 CREDIT

This theory 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 disease. Laboratory safety, the prevention of bloodborne disease transmission and scope of practice will be emphasized. First course in the Clinical Laboratory Procedures series.

Prerequisites: MA-150, MA-152, MA-152L, MA-154, and MA-158 Corequisites: MA-156, MA-156L, MA-160, MA-162, MA-162L, MA-164L, and MA-168

Required: Student must be enrolled in current Medical Assistant cohort

ONL	MA-164-01	334560	)			
	S. DAVENPC	RT	\$126.00	\$13.00	\$40.00	\$179.00
	Required: Stu	ident Pet	ition.			

### MA-164L CLINICAL LAB PROCEDURES I LAB, 1 CREDIT

This laboratory 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 disease. Laboratory safety, the prevention of bloodborne disease transmission and scope of practice will be emphasized. This is the first lab course in the Clinical Laboratory Procedures series.

Prerequisites: MA-150, MA-152, MA-152L, MA-154, and MA-158 Corequisites: MA-156, MA-156L, MA-160, MA-162, MA-162L, MA-164, and MA-168

Required: Student must be enrolled in current Medical Assistant cohort

HAR	MA-164L-01 3345	61 T		1-4:00 PN	1
	S. DAVENPORT	\$126.00	\$13.00	\$170.00	\$309.00
	Required: Student P	etition.			
HAR	MA-164L-02 3345	62 T		1-4:00 PN	1
		тн		1-4:00 PN	1
	S. DAVENPORT	\$126.00	\$13.00	\$170.00	\$309.00
	Required: Student P	etition. Rest	ricted to	current MA	cohort
	students.				

### MA-168 SEMINAR II, 2 CREDITS

This course will expand on professionalism within the healthcare setting and students will interview and obtain clinical practicum placement.

Prerequisites: MA-150, MA-152, MA-152L, MA-154, and MA-158 Corequisites: MA-156, MA-156L, MA-160, MA-162, MA-162L, MA-164, and MA-164L

**Required:** Student must be enrolled in current Medical Assistant cohort

HAR	MA-168-01	334563 W		9-11:00	) AM
	S. PARKER	\$252.00	\$26.00	\$0.00	\$278.00
	Required: Stud	dent Petition.			

### Medical Billing and Coding

### MBC-115 INSURANCE BILLING AND REIMBURSEMENT I, 4 CREDITS

First course of a two part series. This course introduces the student to health insurance, insurance billing and reimbursement. Students will study the health insurance industry, legal and regulatory issues, and differences in reimbursement methods. The principles of medical billing will be covered, including proper claim form preparation. Required: Student Petition.

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.		/,TH.F,S,SU) Fee	Time Crs. Fee	Total
Required:	Medical Billing	and Cod	ing studer	nts only		
REM	MBC-115-01 C GABNEB	334564	<b>M</b> \$504.00	\$52.00	6-9:00 PM	\$756.00

### MBC-120 INTRODUCTION TO MEDICAL CODING. 3 CREDITS

This course will explore the fundamental medical coding skills for professional services, such as physicians, mid-level providers, etc. Students will investigate the fundamentals of Diagnostic and Procedural medical coding. Required: Student Petition.

Required: Medical Billing and Coding students only

Required: Student Petition.

REM	MBC-120-01	334565 W		6-9:00 PM	
	C. GARNER	\$378.00	\$39.00	\$200.00	\$617.00
	Required: Stu	dent Petition.			

### MBC-135 LAW AND ETHICS FOR HEALTHCARE PROFESSIONS, 3 CREDITS

This course introduces legislation affecting healthcare, along with a review of issues such as professional liability, informed consent, privacy and security laws, electronic health records and workplace legalities. A variety of ethical issues in health care are explored, as well as an examination of future trends in health care. Required: Student Petition. **Required:** Medical Billing and Coding students only

ONL	MBC-135-01	334566			
	C. GARNER	\$378.00	\$39.00	\$77.86	\$494.86
	Required: Stu section fees.	dent Petition. Onl	ine textbo	ook includ	led in

### 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	334585 TTH		3-4:50 PM	
	L. CAMPBELL	\$252.00	\$26.00	\$0.00	\$278.00

### MUP-104 PEP BAND/COMBO-IMPROV, 1 CREDIT

Instrumental performing group concentrating on rock, pop, and contemporary styles in the small to medium-sized group setting. No audition required. May be repeated for up to 8 credits. **Recommended Prerequisites:** MUP-105 or MUP-125

	•			
OC LCT	MUP-104-01	334587 M	12-12	2:50 PM
	C. DOGGETT	\$126.00	\$13.00 \$0.00	\$139.00

### MUP-105 JAZZ ENSEMBLE, 2 CREDITS

For non-majors and music majors. Introduction and study of common 'big-band' and small-group jazz styles. This course is taken each term in one's first year of a two-year course of study that includes performance, improvisation, musical arranging and writing, study of common styles and practices of historically and culturally significant jazz artists, and study of historical issues related to the development and performance of jazz music. May be repeated for up to 6 credits.

### 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, C	redits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
Recommer	nded Prerequis	ites: ML	JP-102			
OC LCT	MUP-105-01 L. CAMPBELL	334591	<b>MW</b> \$252.00	\$26.00	<b>3-4:50 PM</b> \$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
 334594 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 1/6 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.

### MUP-125 ADVANCED VOCAL ENSEMBLE, 2 CREDITS

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

OC LCT	MUP-125-01 334597 MW	3-4:50 PM
	K. HOLLINGSWORTH \$252.00	\$26.00 \$52.00 \$330.00
	Vocal placement required for pr ensembles. New students atten 3-5 pm to demonstrate vocal ra kathleen.hollingsworth@clacka	d in Room N114 on 1/6 from nge. Contact

### MUP-141 COLLEGE ORCHESTRA, 1 CREDIT

Performance and study of orchestral literature. College students may earn credit for playing in one of several approved orchestral groups. Minimum of one performance per term. May be repeated for up to 8 credits. Required: Student Petition.

OC LCT	MUP-141-01	334600	ТВА			
	L. CAMPBELL		\$126.00	\$13.00	\$0.00	\$139.00
	Required: Student Petition.					

### MUP-150 CONTEMPORARY MUSIC ENSEMBLE, 2 CREDITS

Studies the development and performance of original compositions through intensive musical collaboration and creation. May be repeated for up to 12 credits.

Required: Pass proficiency audition

OC LCT	MUP-150-01	334603 MW		1-2:50 PI	N
	K. DEITZ K. HOLLINGS	\$252.00 WORTH	\$26.00	\$50.00	\$328.00
	Vocal placem ensembles. N 3-5 pm to den	ent required for pri ew students attend nonstrate vocal ran ngsworth@clackan	d in Roor nge. Con	n N114 on tact	1/6 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	334605 TH		1-2:50 I	РМ
	D. TUTMARK	\$126.00	\$13.00	\$85.00	\$224.00
	Guitar Ensem	ble.			

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,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
OC LCT	MUP-158-02 G. HARRIS Saxophone Q	334607	<b>′ TBA</b> \$126.00	\$13.00	\$85.00	\$224.00
oc	MUP-158-03 TBA Brass Quintet	339413		\$13.00	\$85.00	\$224.00
oc	MUP-158-04 TBA Woodwind Qu	<b>339414</b> uintet.		\$13.00	\$85.00	\$224.00
oc	MUP-158-05 Y. MIYAMA Piano Chamb	<b>339415</b> er Ensen	\$126.00	\$13.00	\$85.00	\$224.00

### 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	334681 TTH		3-4:50 PM	
	L. CAMPBELL	\$252.00	\$26.00	\$0.00	\$278.00

### MUP-204 PEP BAND/COMBO-IMPROV, 1 CREDIT

Instrumental performing group concentrating on rock, pop, and contemporary styles in the small to medium-sized group setting. No audition required. May be repeated for up to 8 credits.

Prerequisites: MUP-104 (3 credits)

Recommended Prerequisites: MUP-105 or MUP-125

OC LCT	MUP-204-01	334683 M		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	334688 MW		3-4:50 PM	
	L. CAMPBELL	\$252.00	\$26.00	\$0.00	\$278.00

### MUP-222 CHAMBER CHOIR, 2 CREDITS

Advanced vocal ensemble which rehearses and performs choral music from the Renaissance to the 21st century. Provides preparation for entering professional fields of music and performance. Emphasis on a cappella singing applied to appropriate chamber music. Recommended for vocal music majors. Enrollment by audition. May be repeated for up to 6 credits.

Prerequisites: MUP-122 (6 credits)

#### Course No Course Title, Credits Section No Crs Reg. Days (M,T,W,TH.F,S,SU) Time Instructor Tuition Fee Crs. Fee Total MUP-222-01 334690 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 1/6 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.

### MUP-225 ADVANCED VOCAL ENSEMBLE, 2 CREDITS

Second year advanced vocal performance ensemble open by audition only. Open to majors and students with vocal experience, sight-reading ability. AVE will travel to perform, will record in the studio and a minimum three-term commitment is highly encouraged. May be repeated for up to 6 credits.

### Prerequisites: MUP-125 (6 credits)

OC LCT

OC LCT MUP-225-01 334693 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 attend in Room N114 on 1/6 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.

### MUP-241 COLLEGE ORCHESTRA, 1 CREDIT

Performance and study of orchestral literature. College students may earn credit for playing in one of several approved orchestral groups. Minimum of one performance per term. May be repeated for up to 8 credits. Required: Student Petition.

OC LCT	MUP-241-01	334697	ТВА			
	L. CAMPBELL		\$126.00	\$13.00	\$0.00	\$139.00
	Required: Stud	dent Peti	tion.			

### 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	334788			
	J. HEDBERG	\$378.00	\$39.00	\$10.00	\$427.00

### MUS-103 APPLIED MUSIC FUNDAMENTALS, 3 CREDITS

A continuation of an 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-102

ос	MUS-103-01	339420 T		10-11:2	O AM
		TH		10-11:2	O AM
	K. HOLLINGS	WORTH \$378.00	\$39.00	\$10.00	\$427.00

### MUS-105 MUSIC APPRECIATION, 3 CREDITS

For non-majors and music majors. Emphasis on engaging in the study of instrumental and vocal musical genres from the ancient period through the contemporary music of our time. Includes critical analysis, study of elements, forms, styles, composers, performers, cultural, and historical issues and events.

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

ONL	MUS-105-01	334792			
	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.

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	Irse No Course Title, Credits						
	Section No Instructor	Crs Reg.	Days (M,T,W Tuition	/,TH.F,S,SU) Fee	Time Crs. Fee	Total	
OC LCT	MUS-106-01	334794	F S		6:30 -8:20 9-5:20 PM		
	B. ROSE Meets: 2/7 & 2	2/8	\$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.

0	с	MUS-107-01	334796	М		6:30 -9:20	PM
		D. BADSTUBN	IER	\$378.00	\$39.00	\$99.00	\$516.00

### MUS-108 INTRODUCTION TO AUDIO RECORDING II, 3 CREDITS

Exploration of techniques and tools used in audio recording. Analog, digital, and hard drive recording will be explored. Areas of study include multi-tracking, signal path, microphone applications, software, hardware, outboard gear, soldering techniques, tracking, mixing, and editing. Software/hardware includes ProTools, ADAT, Mackie, etc.

### Prerequisites: MUS-107

OC	MUS-108-01	334798	Т		6:30 -9:20	PM
	D. BADSTUBN	IER	\$378.00	\$39.00	\$99.00	\$516.00
OC LCT	MUS-108-02	334800	М		1-3:50 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	334801	Т		6:30 -9:20	PM
	D. BADSTUBN	IER	\$378.00	\$39.00	\$99.00	\$516.00
OC LCT	MUS-109-02	334802	М		1-3:50 PM	
	D. BADSTUBN	IER	\$378.00	\$39.00	\$99.00	\$516.00

### MUS-112 MUSIC THEORY I, 3 CREDITS

For non-majors and music majors. Presents functional harmony through written exercises, listening, and analysis. This is the second term of a three-term sequence, which includes voice leading, nonharmonic tones, three-voice and four-voice chorale writing, figured bass, and small melodic structures. Provides a thorough groundwork in the melodic, harmonic, and rhythmic elements of music.

### Prereauisites: MUS-111

**Corequisites:** MUS-112L, MUS-115, and MUS-128 for AS in music degree seekers. This requirement does not affect non-music majors or MPT Majors

OC LCT	MUS-112-01	334803 TTH	10-11:20 AM		
	R. OLASON	\$378.00	\$39.00	\$0.00	\$417.00

### MUS-112L MUSIC NOTATION SOFTWARE I, 1 CREDIT

Continues an introduction to Finale (music notation software) on Macintosh computers.

OC LCT	MUS-112L-01 334805 M			10-11:50	D AM
	D. FLESCHNER	\$126.00	\$13.00	\$44.00	\$183.00

### MUS-115 AURAL SKILLS I, 2 CREDITS

Second 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.

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	Course Title, Credits						
	Section No Instructor	Crs Reg.	Days (M,T,) Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total		
Corequisit	es: MUS-112							
Prerequisi	tes: MUS-114							
ос	MUS-115-01	334807	TTH		1-1:50 PM			

R. OLASON \$252.00 \$26.00 \$0.00 \$278.00

### MUS-128 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-112, MUS-112L, and MUS-115 Prerequisites: MUS-127

OC LCT	MUS-128-01	334808 TTH		2-2:50 PM	
	R. OLASON	\$252.00	\$26.00	\$10.00	\$288.00

### MUS-132 GROUP PIANO: PIANO FOR PLEASURE, 1 CREDIT

Second 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-132-01	334809	ттн		9-9:50 AM	
	T. STOJANOV	/IC	\$126.00	\$13.00	\$85.00	\$224.00

### MUS-135 GROUP VOICE: ANYONE CAN SING, 1 CREDIT

Vocal techniques for the solo and ensemble singer. For music and nonmusic majors, voice and music education majors, and/or students who received a low rating on MUP-174 audition.

OC LCT	MUS-135-01	334811 T		1-2:50 PM		
	B. MICHAEL	\$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.

ос	MUS-137-01	334813 TH		10-11:5	0 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

ос	MUS-138-01	334815 TH	10-11:50 AM			
	D. TUTMARK	\$126.00	\$13.00	\$85.00	\$224.00	

### MUS-140 CAREERS IN MUSIC, 3 CREDITS

An overview of the music industry career opportunities. Studies include recording studio management/engineering, music merchandising, promotion, music contracting, agent/personal manager, live performing, teaching, technical support, record business, video and film production/editing, retailing, and instrument repair.

REM LCT	MUS-140-01	334818	W		6:30 -9:20	PM
	D. FLESCHNE	ĒR	\$378.00	\$39.00	\$0.00	\$417.00

### MUS-142 INTRODUCTION TO ELECTRONIC MUSIC I: MIDI, 3 CREDITS

Introduction to synthesis, MIDI sequencing, basic musical elements, and the basics of production. Learn how to make beats, songs, etc. Uses common production software/hardware.

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) <b>Fee</b>	Time Crs. Fee	Total	
OC LCT	MUS-142-01	334819	Т		1-3:50 PM		
	D. BADSTUBN	IER	\$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	334820 TH		1-3:50 F	РМ
	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	334822 TH	1-3:50 PM		
	A. HAAK	\$378.00	\$39.00	\$99.00	\$516.00

### MUS-147 MUSIC, SOUND & MOVIEMAKING, 1 CREDIT

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

OC LCT	MUS-147-01	334509 F S		6:30 -8:2 9-5:50 Pl	
	B. ROSE Meets: 1/31 &	\$126.00 2/1.	\$13.00	\$99.00	\$238.00

### MUS-160 SONGWRITING I, 2 CREDITS

Studies the techniques of a working songwriter, including use of form, lyrics, harmonic progressions and symbolism in the creative aspect of songwriting. Solo writing as well as the concept of collaboration are introduced. Participants will work individually and/or in small groups to record original songs. May be repeated for up to 4 credits.

**Required:** Working proficiency at playing an instrument such as piano, guitar, voice, or equivalent. Computer generated music is also acceptable

OC LCT	MUS-160-01	334826 T	1-2:50 PM		
	L. POLLARD	\$252.00	\$26.00	\$50.00	\$328.00

### MUS-171 SOUND DESIGN, 2 CREDITS

This course introduces students to the fundamentals of sound design through a series of practical, hands-on activities. Students will gain an understanding of the skills, tools, and concepts used in the creation and synchronization of sound effects in modern visual media. Through a thorough introduction to sound recording, editing and mixing, audio manipulation, and electronic synthesis, this course will provide students with the knowledge and skills to create unique sound effects using industry standard software like Pro Tools, Propellerhead's Reason, Ableton Live, Native Instrument's Reaktor, and other sound designspecific software.

OC LCT	CLCT MUS-171-01 3348		10-11	:50 AM
	S. MOFIDI	\$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.

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	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
oc	MUS-188-01 L. CAMPBELL	339421	<b>TBA</b> \$0.00	\$0.00	\$0.00	\$0.00

### MUS-189 PERFORMANCE & REPERTOIRE, 1 CREDIT

A performance forum required for all students studying a classical instrument or voice at the MUP-171 to MUP-191 and MUP-271 to MUP-291 levels. Through weekly performance and critique, each student will develop proper stage manners and prepare for the end of term performance jury, and will also study the work to be performed through academic research. Students will have an opportunity to work with a professional accompanist. May be repeated for up to 6 credits. Required: Student Petition.

OC LCT	MUS-189-01	334829 W		11-11:50	AM
	J. ISRAELS	\$126.00	\$13.00	\$0.00	\$139.00
	B. MICHAEL				
				12-12:50 PM	
OC LCT	MUS-189-02	334833 W		12-12:50	PM
OC LCT	MUS-189-02 J. ISRAELS B. MICHAEL	<b>334833 W</b> \$126.00	\$13.00		<b>PM</b> \$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

ос	MUS-206-01	334834	MW		10-11:50	АМ
	K. DEITZ		\$504.00	\$52.00	\$0.00	\$556.00
ONL	MUS-206-02	334839				
	J. HEDBERG		\$504.00	\$52.00	\$0.00	\$556.00

### MUS-212 MUSIC THEORY II, 3 CREDITS

For non-majors and music majors. Continuation of the study of harmony and period styles through written exercises, compositions, listening, and analysis. This is the second term of a three-term sequence, which includes the classical style, extended, and chromatic harmony.

Required: Ability to read music

Prerequisites: MUS-211

Corequisites: MUS-215 and MUS-225

•					
OC LCT	MUS-212-01	334840 MW		10-11:20	AM
	R. OLASON	\$378.00	\$39.00	\$269.00	\$686.00

### MUS-215 KEYBOARD SKILLS II, 2 CREDITS

Second course in the sequential second year of advanced keyboard applications covering the materials of diatonic and chromatic music.

Corequisites: MUS-212 Prerequisites: MUS-214

OC LCT	MUS-215-01	334841 MW		2-2:50 I	РМ
	R. OLASON	\$252.00	\$26.00	\$85.00	\$363.00

### MUS-219 MPT SEMINAR II, 1 CREDIT

Second 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-218

OC LCT MUS-219-01 334843 M 12-12:50 PM K. HOLLINGSWORTH \$126.00 \$13.00 \$0.00 \$139.00 Field trip TBA.

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

Course	Listing									2	2025/WI
Course No	Course Title, C	redits				Course No	Course Title, C	credits			
	Section No Instructor	Crs Reg.	Days (M,T,W,TH.F,S,SU) Tuition Fee	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T,W,TH.F,S,SU) Tuition Fee	Time Crs. Fee	Total
MUS-225	AURAL SKIL	LS II, 2	CREDITS			OC LCT	MUP-100-04	334572			
Second of chromatic part dictati <b>Corequisi</b>	three courses i sight singing w	in a year ith solfèg	-long sequence. D le syllables and mo ic devices studied	oveable 'do'.			required for p students atter demonstrate	rivate les nd in Roo vocal rang	\$126.00 \$13.00 tion. Voice Lessor sons and vocal en m N114 on 1/6 fro ge. Contact @clackamas.edu v	is. Vocal p sembles. N m 3-5 pm t	New to
oc	MUS-225-01	334847	7 MW	1-1:50 PN	1	OC LCT	MUP-100-05	-		and quoon	5110.
	R. OLASON	00404	\$252.00 \$26.00		\$363.00		B. MICHAEL Required: Stu	dent Peti	\$126.00 \$13.00 tion. Voice Lessor	•	\$364.00 lacement
MUS-280	MUSIC/CWE	, 2-6 CR	EDITS						sons and vocal en		
experience	e in the field of		vides students wit equired: Student F		work		demonstrate	vocal rang	m N114 on 1/6 fro ge. Contact @clackamas.edu v		
	tes: CWE-281					OC LCT	MUP-100-06	334575			
ONL LCT	MUS-280-01	334849					•		\$126.00 \$13.00 tion. Cello Lesson	•	\$364.00
	C. DOGGETT Required: Stu CWE-281-06	udent Pet	\$756.00 \$78.00 tition. Corequisite:			OC LCT	MUP-100-07 K. DEITZ Required: Stu		<b>TBA</b> \$126.00 \$13.00 tion. Bass Lessons	•	\$364.00
ONL LCT	MUS-280-02	33485	1			OC LCT	MUP-100-08		ТВА		
	G. HARRIS		\$756.00 \$78.00				D. TUTMARK		\$126.00 \$13.00		\$364.00
	CWE-281-06		tition. Corequisite:	I ake the to	llowing	00107			tion. Guitar Lesson	15.	
	GWE-201-00	•				OC LCT	MUP-100-09 C. WOITACH	334578	\$126.00 \$13.00	\$225.00	\$364.00
XMUP-	UNISTUS CH	IOIR, 0 C	REDIT						tion. Jazz Guitar L	•	φ004.00
0001						OC LCT	MUP-100-10				
the Renais	sance to the 20	0th centu	arses and perform ry, including the m	nusic of Esto	onia.		•		\$126.00 \$13.00 tion. Saxophone L	•	\$364.00
			professional fields pella singing applie			OC LCT	MUP-100-11	334580		¢005.00	<b>\$004.00</b>
			onment whereby i				J. KLAUSE	dont Poti	\$126.00 \$13.00 tion. Trumpet Less		\$364.00
			and attitudes, may			OC LCT	MUP-100-12		•	50113.	
			which is that of ex				C. DOGGETT		\$126.00 \$13.00	\$225.00	\$364.00
expression	n. The achieven	nent of th	nis potential is our	goal. By auc	dition.		Required: Stu	dent Peti	tion. Percussion &	Drum Set	Lessons.
oc	XMUP-0001-	33488	1 M	6-9:30 PN	1	OC LCT	MUP-100-13	334582			
	01 L. CLINE		\$0.00 \$0.00	\$0.00	\$0.00		K. GIFFORD	dont Doti	\$126.00 \$13.00		\$364.00
	By audition o	nlv	φ0.00 φ0.00	φ0.00	φ0.00	OC LCT	MUP-100-14	334583	tion. Flute Lesson:	5.	
Music:			ons - Non-M	usic Mai	ors	00201	T. STOJANO	/IC	\$126.00 \$13.00 tion. Piano Lessor		\$364.00
						oc	MUP-100-15	339395	ТВА		
MUP-100	INDIVIDUAL	LESSO	NS: NON-MUSIC	MAJORS, 1	CREDIT		C. LEE		\$126.00 \$13.00	•	\$364.00
Private les	sons for beginr	ners, non	-music majors, an	d students v	vho	00			tion. Oboe Lesson	S.	
			nrough MUP-191 a			OC	MUP-100-16 B. GARDINEF	339396	\$126.00 \$13.00	\$225.00	\$364.00
	· • · ·	0	keyboard instrume	,	ice. May				tion. Percussion L		ψυυ4.00
be repeate	ea tor up to 12 c	credits. R	lequired: Student I	-etition.		ос	MUP-100-17				
OC LCT	MUP-100-01	334567					L. CAMPBELI		\$126.00 \$13.00	\$225.00	\$364.00
	K. POLITZER		\$126.00 \$13.00		\$364.00		•		tion. Trombone Le	ssons.	
00107			tition. Jazz Piano I	_essons.		oc	MUP-100-21	339397		<b><b><b></b></b></b>	A700.00
OC LCT	MUP-100-02 Y. MIYAMA	334569	\$126.00 \$13.00	\$225.00	\$364.00		K. POLITZER		\$252.00 \$26.00 tion. Jazz Piano Lo		\$728.00
		Ident Pet	tition Piano Lesso		ψυυ <del>4</del> .00		Required: Stu			ESSONS.	

ос

ос

ос

Required: Student Petition. Piano Lessons. oc LCT MUP-100-03 334571 TBA D. FLESCHNER \$126.00 \$13.00 \$225.00 \$364.00 Required: Student Petition. Rock, Blues, and Pop Piano Lessons.

 Other Coding Translations:
 E

 TBA: To be arranged: contact
 L

 department first class
 VAR: Variable credit class

MUP-100-22 339398 TBA

MUP-100-23 339399 TBA

Required: Student Petition. Piano Lessons.

339400 TBA

Required: Student Petition. Rock, Blues, and Pop Piano

Y. MIYAMA

Lessons.

MUP-100-24

J. ISRAELS

D. FLESCHNER

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

\$252.00 \$26.00 \$450.00

\$252.00 \$26.00 \$450.00

\$252.00 \$26.00 \$450.00

\$728.00

\$728.00

\$728.00

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

**66** For information about Clackamas Community College, call **503-594-6000** 

|--|

Total

Time

Crs. Fee

Course No	Course Title, Cre	edits					
	Section No Instructor	Crs Reg.	Days (M,T,W Tuition	/,TH.F,S,SU) Fee	Time Crs. Fee	Total	
	Required: Stuc						
	required for pri students attend						
	demonstrate v				in 3-5 pm	10	
	kathleen.hollin				with auesti	ons.	
ос	MUP-100-25	339508					
	B. MICHAEL		\$252.00	\$26.00	\$450.00	\$728.00	
	Required: Stud	lent Pet				lacement	
	required for pri						
	students attend				m 3-5 pm	to	
	demonstrate v						
ос	kathleen.hollin	•		nas.edu	with questi	ons.	
00	MUP-100-26 C. AVERILL	339401		¢06.00	¢450.00	¢700 00	
	Required: Stuc	lant Pat			\$450.00	\$728.00	
ос	MUP-100-27	339403		5 263301	5.		
00	K. DEITZ	333400		\$26.00	\$450.00	\$728.00	
	Required: Stud	lent Pet				¢720.00	
oc	MUP-100-28	339404					
	D. TUTMARK			\$26.00	\$450.00	\$728.00	
	Required: Stud	lent Pet				•	
oc	MUP-100-29	339405	5 TBA				
	C. WOITACH		\$252.00	\$26.00	\$450.00	\$728.00	
	Required: Stud	lent Pet	ition. Jazz	: Guitar L	essons.		
OC	MUP-100-30	339406					
	G. HARRIS	_			\$450.00	\$728.00	
	Required: Stud			ophone L	essons.		
OC	MUP-100-31	339407					
	J. KLAUSE				\$450.00	\$728.00	
00	Required: Stuc			npet Les	sons.		
OC	MUP-100-32 C. DOGGETT	339408		¢06.00	\$450.00	\$728.00	
	Required: Stud	lant Pat					
ос	MUP-100-33	339409		,0351011 0	Diumset	Lessons.	
00	K. GIFFORD	000400		\$26.00	\$450.00	\$728.00	
	Required: Stud	lent Pet				¢. 20.00	
ос	MUP-100-34	339410					
	T. STOJANOV	IC	\$252.00	\$26.00	\$450.00	\$728.00	
	Required: Stud	lent Pet	ition. Pian	lo Lessoi	ns.		
OC	MUP-100-35	339411	I TBA				
	C. LEE		\$252.00	\$26.00	\$450.00	\$728.00	
	Required: Stuc			e Lessor	IS.		
OC	MUP-100-36	339412					
	B. GARDINER				\$450.00	\$728.00	
	Required: Stuc			cussion L	essons.		
OC	MUP-100-37	339511		<b>\$00.00</b>	<b>\$450.00</b>	A700.00	
	L. CAMPBELL	lont Dot			\$450.00	\$728.00	
	Required: Stuc	ient Pet	mon. Iron	IDONE LE	SSOUS.		
Music:	Individual I	0000	ne - V	oor 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 334609 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 339416 TBA T. STOJANOVIC \$252.00 \$26.00 \$450.00 \$728.00 Required: Student Petition. MUP-171J INDIVIDUAL LESSONS: JAZZ PIANO. 2 CREDITS Required: College-level performance ability OC LCT MUP-171J-01 334612 TBA \$252.00 \$26.00 \$450.00 K. POLITZER \$728.00 Required: Student Petition. MUP-171R INDIVIDUAL LESSONS: ROCK, BLUES, POP PIANO, 2 CREDITS Required: College-level performance ability OC LCT MUP-171R-01 334615 TBA D. FLESCHNER \$252.00 \$26.00 \$450.00 \$728.00 Required: Student Petition. MUP-172 INDIVIDUAL LESSONS: ORGAN, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189 OC LCT MUP-172-01 334616 TBA J. HOLLAND \$252.00 \$26.00 \$450.00 \$728.00 Required: Student Petition. MUP-174 INDIVIDUAL LESSONS: VOICE, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189 OC LCT MUP-174-01 334617 TBA \$252.00 \$26.00 \$450.00 J ISBAFLS \$728.00 Required: Student Petition. Voice Lessons. Vocal placement required for private lessons and vocal ensembles. New students attend in Room N114 on 1/6 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions. MUP-174-02 334618 TBA OC LCT **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 1/6 from 3-5 pm to demonstrate vocal range. Contact

Crs Reg. Days (M,T,W,TH.F,S,SU)

Fee

Tuition

# MUP-174J INDIVIDUAL LESSONS: JAZZ VOICE, 2 CREDITS

kathleen.hollingsworth@clackamas.edu with questions.

Required: College-level performance ability Corequisites: MUS-189

Course No Course Title, Credits Section No Crs R

Instructor

OC LCT MUP-174J-01 334619 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 1/6 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions. OC LCT MUP-174J-02 334621 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 1/6 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

	Listing								2025/\
Course No	Course Title, Credits		Course No C	Course Title, C	redits				
	Section No Crs Reg. Days (M,T,W,TH.F,S,SU) Time Instructor Fee Crs. Fee	Total		Section No	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Tot
	College-level performance ability		Required: Co		erformanc	e ability			
oc	MUP-174R-01 337955 TBA J. ISRAELS \$252.00 \$26.00 \$450.00 Required: Student Petition. Voice Lessons. Vocal plac required for private lessons and vocal ensembles. New		Т	<b>IUP-179-01</b> IBA Required: Stu		\$252.00	\$26.00	\$450.00	\$728
	students attend in Room N114 on 1/6 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with question			NDIVIDUAL I	LESSONS	S: GUITA	NR, 2 CR	EDITS	
oc	MUP-174R-02         337956         TBA           B. MICHAEL         \$252.00         \$26.00         \$450.00	\$728.00	Corequisites	s: MUS-189		-			
	Required: Student Petition. Voice Lessons. Vocal plac required for private lessons and vocal ensembles. New students attend in Room N114 on 1/6 from 3-5 pm to	cement	C	<b>IUP-180-01</b> D. TUTMARK Required: Stu		\$252.00	\$26.00	\$450.00	\$728
	demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with question	IS.	MUP-180J II Required: Co	NDIVIDUAL I ollege-level pe			GUITAR	, 2 CREDI	TS
	INDIVIDUAL LESSONS: VIOLIN, 2 CREDITS College-level performance ability es: MUS-189		C	<b>IUP-180J-01</b> C. WOITACH Required: Stu	:	\$252.00	\$26.00	\$450.00	\$728
OC LCT	MUP-175-01         334622 TBA           TBA         \$252.00         \$26.00         \$450.00           Required: Student Petition.         \$252.00         \$26.00         \$450.00	\$728.00	C	NDIVIDUAL I CREDITS			, BLUES	5, POP GL	JITAR, 2
	INDIVIDUAL LESSONS: VIOLA, 2 CREDITS		Required: Co	• •					
Required:	College-level performance ability es: MUS-189		A	<b>IUP-180R-01</b> A. CSIKOS Required: Stu	;	\$252.00	\$26.00	\$450.00	\$728
00107	MUP-176-01 334623 TBA							<b>DT</b> .0	
OC LCT		\$728.00	Required: Co				E, 2 CRE	DIIS	
MUP-177 Required:	H. OSEAS \$252.00 \$26.00 \$450.00 Required: Student Petition.	\$728.00	Required: Co Corequisites OC LCT M K	ollege-level pe	erformanc 334636	ce ability <b>TBA</b> \$252.00			\$728
MUP-177 Required:	H. OSEAS \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: CELLO, 2 CREDITS College-level performance ability es: MUS-189 MUP-177-01 334624 TBA	\$728.00 \$728.00	Required: Co Corequisites OC LCT M F OC M S	ollege-level pe s: MUS-189 <b>/UP-181-01</b> (. GIFFORD	334636 334636 dent Petit 339512 N	<b>TBA</b> \$252.00 ion. <b>TBA</b> \$252.00	\$26.00	\$450.00	·
MUP-177 Required: Corequisit OC LCT MUP-178 Required:	H. OSEAS \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: CELLO, 2 CREDITS College-level performance ability es: MUS-189 MUP-177-01 334624 TBA C. AVERILL \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: BASS, 2 CREDITS College-level performance ability		Required: Co Corequisites OC LCT M K F OC M S F MUP-181J II Required: Co	bilege-level pe s: MUS-189 MUP-181-01 (. GIFFORD Required: Stur MUP-181-02 S. TIEDEMAN Required: Stur NDIVIDUAL I billege-level pe	334636 dent Petit 339512 N S dent Petit LESSONS	te ability TBA \$252.00 ion. TBA \$252.00 ion. S: JAZZ I ce ability	\$26.00 \$26.00	\$450.00 \$450.00	\$728
MUP-177 Required: Corequisit OC LCT MUP-178 Required:	H. OSEAS \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: CELLO, 2 CREDITS College-level performance ability es: MUS-189 MUP-177-01 334624 TBA C. AVERILL \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: BASS, 2 CREDITS College-level performance ability es: MUS-189 MUP-178-01 334626 TBA K. DEITZ \$252.00 \$26.00 \$450.00		Required: Co Corequisites OC LCT M F OC M S F MUP-181J II Required: Co OC LCT M	ollege-level po s: MUS-189 MUP-181-01 (. GIFFORD Required: Stur MUP-181-02 S. TIEDEMAN Required: Stur NDIVIDUAL I	arformanc 334636 dent Petit 339512 N dent Petit LESSONS arformanc 334638	e ability <b>TBA</b> \$252.00 ion. <b>TBA</b> \$252.00 ion. <b>S: JAZZ I</b> ce ability <b>TBA</b> \$252.00	\$26.00 \$26.00 FLUTE, ;	\$450.00 \$450.00 2 CREDIT	\$728 \$728 <b>S</b> \$728
MUP-177 Required: Corequisit OC LCT MUP-178 Required: Corequisit OC LCT MUP-178J	H. OSEAS \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: CELLO, 2 CREDITS College-level performance ability es: MUS-189 MUP-177-01 334624 TBA C. AVERILL \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: BASS, 2 CREDITS College-level performance ability es: MUS-189 MUP-178-01 334626 TBA K. DEITZ \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: JAZZ BASS, 2 CREDITS	\$728.00	Required: Co Corequisites OC LCT M F OC M S F MUP-181J II Required: Co OC LCT M G F	bilege-level po S: MUS-189 MUP-181-01 (. GIFFORD Required: Stur MUP-181-02 S. TIEDEMAN Required: Stur NDIVIDUAL I Dilege-level po NDIVIDUAL I DIVIDUAL I DIVIDUAL I DIVIDUAL I	arformanc 334636 dent Petit 339512 N Sdent Petit LESSONS dent Petit LESSONS	e ability <b>TBA</b> \$252.00 ion. <b>TBA</b> \$252.00 ion. <b>S: JAZZ I</b> 2 ability <b>TBA</b> \$252.00 ion. <b>S: OBOE</b>	\$26.00 \$26.00 FLUTE, 2 \$26.00	\$450.00 \$450.00 <b>2 CREDIT</b> \$450.00	\$728 S
MUP-177 Required: Corequisit OC LCT MUP-178 Required: Corequisit OC LCT MUP-178J	H. OSEAS \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: CELLO, 2 CREDITS College-level performance ability es: MUS-189 MUP-177-01 334624 TBA C. AVERILL \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: BASS, 2 CREDITS College-level performance ability es: MUS-189 MUP-178-01 334626 TBA K. DEITZ \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: JAZZ BASS, 2 CREDITS College-level performance ability MUP-178J-01 334627 TBA K. DEITZ \$252.00 \$26.00 \$450.00	\$728.00	Required: Co Corequisites OC LCT M F OC M S F MUP-181J II Required: Co OC LCT M G MUP-182 II Required: Co Corequisites OC LCT M	bilege-level po S: MUS-189 MUP-181-01 (. GIFFORD Required: Stur MUP-181-02 S. TIEDEMAN Required: Stur NDIVIDUAL I Dilege-level po NDIVIDUAL I DIVIDUAL I DIVIDUAL I DIVIDUAL I	arformance 334636 dent Petit 339512 N dent Petit LESSONS dent Petit LESSONS dent Petit LESSONS arformance 334638	e ability <b>TBA</b> \$252.00 ion. <b>TBA</b> \$252.00 ion. <b>S: JAZZ I</b> (c) ability <b>TBA</b> \$252.00 ion. <b>S: OBOE</b> (c) ability <b>TBA</b> \$252.00	\$26.00 \$26.00 FLUTE, 2 \$26.00 , 2 CREI	\$450.00 \$450.00 2 CREDIT \$450.00 DITS	\$728 S
MUP-177 Required: Corequisit OC LCT MUP-178 Required: OC LCT MUP-178J Required:	H. OSEAS \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: CELLO, 2 CREDITS College-level performance ability es: MUS-189 MUP-177-01 334624 TBA C. AVERILL \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: BASS, 2 CREDITS College-level performance ability es: MUS-189 MUP-178-01 334626 TBA K. DEITZ \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: JAZZ BASS, 2 CREDITS College-level performance ability MUP-178J-01 334627 TBA K. DEITZ \$252.00 \$26.00 \$450.00 Required: Student Petition. MUP-178J-01 334627 TBA K. DEITZ \$252.00 \$26.00 \$450.00 Required: Student Petition. MUP-178J-02 334628 TBA	\$728.00 \$728.00	Required: Co Corequisites OC LCT M K OC M S F MUP-181J II Required: Co OC LCT M CO Corequisites OC LCT M CO Corequisites OC LCT M CO F MUP-183 II Required: Co	bilege-level po S: MUS-189 MUP-181-01 C. GIFFORD Required: Stur MUP-181-02 S. TIEDEMAN Required: Stur NDIVIDUAL I bilege-level po MUP-181J-01 S. HARRIS Required: Stur NDIVIDUAL I bilege-level po S: MUS-189 MUS-189 MUS-189 MUS-182-01 C. LEE Required: Stur NDIVIDUAL I bilege-level po	arformance 334636 dent Petit 339512 N dent Petit LESSONS dent Petit LESSONS arformance 334639 dent Petit LESSONS	e ability <b>TBA</b> \$252.00 ion. <b>TBA</b> \$252.00 ion. <b>S: JAZZ I</b> (c) ability <b>TBA</b> \$252.00 ion. <b>S: OBOE</b> (c) ability <b>TBA</b> \$252.00 ion. <b>S: OBOE</b> (c) ability <b>TBA</b> \$252.00 ion. <b>S: CLARI</b>	\$26.00 \$26.00 FLUTE, 5 \$26.00 , 2 CREI \$26.00	\$450.00 \$450.00 2 CREDIT \$450.00 DITS \$450.00	\$728 <b>S</b> \$728
MUP-177 Required: Corequisit OC LCT MUP-178 Required: Corequisit OC LCT MUP-178J Required: OC LCT	H. OSEAS \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: CELLO, 2 CREDITS College-level performance ability es: MUS-189 MUP-177-01 334624 TBA C. AVERILL \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: BASS, 2 CREDITS College-level performance ability es: MUS-189 MUP-178-01 334626 TBA K. DEITZ \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: JAZZ BASS, 2 CREDITS College-level performance ability MUP-178J-01 334627 TBA K. DEITZ \$252.00 \$26.00 \$450.00 Required: Student Petition. MUP-178J-01 334627 TBA K. DEITZ \$252.00 \$26.00 \$450.00 Required: Student Petition. MUP-178J-02 334628 TBA T. WAKELING \$252.00 \$26.00 \$450.00	\$728.00 \$728.00 \$728.00 \$728.00	Required: Co Corequisites oc LCT M F oc M MUP-181J II Required: Co Oc LCT M Required: Co Corequisites oc LCT M MUP-183 II Required: Co Corequisites oc LCT M	ollege-level po : MUS-189 MUP-181-01 C. GIFFORD Required: Stur MUP-181-02 S. TIEDEMAN Required: Stur NDIVIDUAL I ollege-level po : MUS-189 MUP-182-01 C. LEE Required: Stur NDIVIDUAL I ollege-level po : MUS-189 MUP-182-01 C. LEE Required: Stur NDIVIDUAL I ollege-level po : MUS-189 MUP-183-01	arformance 334636 dent Petit 339512 N dent Petit LESSONS dent Petit LESSONS afformance 334639 dent Petit LESSONS afformance 334641	<ul> <li>xe ability</li> <li><b>TBA</b></li> <li>\$252.00</li> <li>ion.</li> <li><b>TBA</b></li> <li>\$252.00</li> <li>ion.</li> <li><b>S: JAZZ I</b></li> <li>\$252.00</li> <li>ion.</li> <li><b>S: OBOE</b></li> <li>xe ability</li> <li><b>TBA</b></li> <li>\$252.00</li> <li>ion.</li> <li><b>S: OBOE</b></li> <li>xe ability</li> <li><b>TBA</b></li> <li>\$252.00</li> <li>ion.</li> <li><b>S: CLARI</b></li> <li>xe ability</li> <li><b>TBA</b></li> </ul>	\$26.00 \$26.00 FLUTE, 5 \$26.00 , 2 CREI \$26.00	\$450.00 \$450.00 2 CREDIT \$450.00 DITS \$450.00 CREDITS	\$728 \$ \$728 \$728
MUP-177 Required: Corequisit OC LCT MUP-178 Required: Corequisit OC LCT MUP-178J Required: OC LCT OC LCT MUP-178R Required:	H. OSEAS \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: CELLO, 2 CREDITS College-level performance ability es: MUS-189 MUP-177-01 334624 TBA C. AVERILL \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: BASS, 2 CREDITS College-level performance ability es: MUS-189 MUP-178-01 334626 TBA K. DEITZ \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: JAZZ BASS, 2 CREDITS College-level performance ability MUP-178J-01 334627 TBA K. DEITZ \$252.00 \$26.00 \$450.00 Required: Student Petition. MUP-178J-02 334628 TBA T. WAKELING \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: ROCK, BLUES, POP BASS CREDITS College-level performance ability	\$728.00 \$728.00 \$728.00 \$728.00	Required: Co Corequisites OC LCT M K F OC M S F MUP-181J II Required: Co OC LCT M CO Corequisites OC LCT M Required: Co Corequisites OC LCT M Required: Co Corequisites OC LCT M	bilege-level po S: MUS-189 MUP-181-01 C. GIFFORD Required: Stur MUP-181-02 S. TIEDEMAN Required: Stur NDIVIDUAL I ollege-level po S: MUS-189 MUP-182-01 C. LEE Required: Stur NDIVIDUAL I ollege-level po S: MUS-189	arformance 334636 dent Petit 339512 N dent Petit LESSONS dent Petit	<ul> <li>a ability</li> <li><b>TBA</b></li> <li>\$252.00</li> <li>ion.</li> <li><b>TBA</b></li> <li>\$252.00</li> <li>ion.</li> <li><b>S: JAZZ I</b></li> <li>\$252.00</li> <li>ion.</li> <li><b>S: OBOE</b></li> <li>a ability</li> <li><b>TBA</b></li> <li>\$252.00</li> <li>ion.</li> <li><b>S: CLARI</b></li> <li>a ability</li> <li><b>TBA</b></li> <li>\$252.00</li> <li>ion.</li> </ul>	\$26.00 \$26.00 FLUTE, 5 \$26.00 , 2 CREI \$26.00	\$450.00 \$450.00 2 CREDIT \$450.00 DITS \$450.00 CREDITS	\$728 <b>S</b> \$728
MUP-177 Required: Corequisit OC LCT MUP-178 Required: OC LCT MUP-178J Required: OC LCT OC LCT	H. OSEAS \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: CELLO, 2 CREDITS College-level performance ability es: MUS-189 MUP-177-01 334624 TBA C. AVERILL \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: BASS, 2 CREDITS College-level performance ability es: MUS-189 MUP-178-01 334626 TBA K. DEITZ \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: JAZZ BASS, 2 CREDITS College-level performance ability MUP-178J-01 334627 TBA K. DEITZ \$252.00 \$26.00 \$450.00 Required: Student Petition. MUP-178J-02 334628 TBA T. WAKELING \$252.00 \$26.00 \$450.00 Required: Student Petition. INDIVIDUAL LESSONS: ROCK, BLUES, POP BASS CREDITS College-level performance ability MUP-178R-01 337957 TBA	\$728.00 \$728.00 \$728.00 \$728.00	Required: Co Corequisites OC LCT M K F OC M S F MUP-181J II Required: Co OC LCT M CO Corequisites OC LCT M Required: Co Corequisites OC LCT M CO F MUP-183 II Required: Co Corequisites OC LCT M CO F	ollege-level po s: MUS-189 MUP-181-01 (. GIFFORD Required: Stur MUP-181-02 S. TIEDEMAN Required: Stur NDIVIDUAL I ollege-level po MUP-181J-01 S. HARRIS Required: Stur NDIVIDUAL I ollege-level po s: MUS-189 MUP-182-01 C. LEE Required: Stur NDIVIDUAL I ollege-level po s: MUS-189 MUP-183-01 DE MARTIN Required: Stur NDIVIDUAL I	arformance 334636 dent Petit 339512 N dent Petit LESSONS dent Petit LESSONS dent Petit LESSONS dent Petit LESSONS dent Petit LESSONS dent Petit LESSONS dent Petit LESSONS	e ability <b>TBA</b> \$252.00 ion. <b>TBA</b> \$252.00 ion. <b>S: JAZZ I</b> (ability) <b>TBA</b> \$252.00 ion. <b>S: OBOE</b> (c) ability <b>TBA</b> \$252.00 ion. <b>S: CLARI</b> (c) ability <b>TBA</b> \$252.00 ion. <b>S: CLARI</b> (c) ability <b>TBA</b> \$252.00 ion. <b>S: CLARI</b> (c) ability <b>TBA</b> \$252.00 ion. <b>S: CLARI</b> (c) ability <b>TBA</b> \$252.00 ion. <b>S: CLARI</b> (c) ability <b>TBA</b> (c) ability (c) abilit	\$26.00 \$26.00 FLUTE, : \$26.00 , 2 CREI \$26.00 INET, 2 ( \$26.00	\$450.00 \$450.00 2 CREDIT \$450.00 DITS \$450.00 CREDITS \$450.00	\$728 \$728 \$728 \$728 \$728

\$728.00

\$728.00

\$728.00

\$728.00

\$728.00

\$728.00

\$728.00

\$728.00

\$728.00

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

department first class VAR: Variable credit class

OC: Oregon City Campus WILS: Wilsonville Training Center

OFF: Other Off-Campus Location

Course No	Course Title, C Section No Instructor		Days (M,T,V Tuition	/,TH.F,S,SU) <b>Fee</b>	Time Crs. Fee	Total	Course No	Section No Instructor		Days (M,T, Tuition	W,TH.F,S,SU) <b>Fee</b>	Time Crs. Fee	Total
OC LCT	MUP-183J-01 TBA Required: Stu		\$252.00	\$26.00	\$450.00	\$728.00		INDIVIDUAL College-level p tes: MUS-189			ONIUM,	2 CREDIT	S
•	INDIVIDUAL College-level p res: MUS-189			PHONE,	2 CREDIT	S	OC LCT	MUP-189-01 G. MIDDLET( Required: Stu		\$252.00	\$26.00	\$450.00	\$728.00
OC LCT	MUP-184-01 G. HARRIS Required: Stu	<b>334645</b> udent Peti	\$252.00	\$26.00	\$450.00	\$728.00	•	INDIVIDUAL College-level p tes: MUS-189			., 2 CREI	DITS	
Required:	INDIVIDUAL College-level p	performan	ce ability	SAXOPH	HONE, 2 CI	REDITS	OC LCT	MUP-190-01 TBA Required: Stu	334673	\$252.00	\$26.00	\$450.00	\$728.00
OC LCT	MUP-184J-01 G. HARRIS Required: Stu		\$252.00	\$26.00	\$450.00	\$728.00		INDIVIDUAL College-level p	LESSON	S: PERC	USSION	, 2 CREDI	TS
•	INDIVIDUAL College-level p tes: MUS-189			00N, 2 (	CREDITS		OC LCT	tes: MUS-189 MUP-191-01 B. GARDINEI Required: Stu		\$252.00	\$26.00	\$450.00	\$728.00
OC LCT	MUP-185-01 N. BUETTI Required: Stu	334652 udent Peti	\$252.00	\$26.00	\$450.00	\$728.00		J INDIVIDUAL College-level p	LESSON	S: JAZZ	PERCU	SSION, 2 C	REDITS
	INDIVIDUAL College-level p ces: MUS-189			IPET, 2 C	REDITS		OC LCT	MUP-191J-01 C. DOGGETT Required: Stu	Г	\$252.00	\$26.00	\$450.00	\$728.00
OC LCT	MUP-186-01 J. KLAUSE Required: Stu	<b>334656</b> udent Peti	\$252.00	\$26.00	\$450.00	\$728.00		R INDIVIDUAL CREDITS College-level p			(, BLUE	6, POP DR	UMSET, 2
	INDIVIDUAL College-level p			TRUMPE	ET, 2 CREE	DITS	oc	MUP-191R-0 C. DOGGETT	1 337958 T	<b>TBA</b> \$252.00	\$26.00	\$450.00	\$728.00
OC LCT	MUP-186J-01 Q. WALKER Required: Stu		\$252.00	\$26.00	\$450.00	\$728.00		Required: Stu <b>INDIVIDUAL</b> College-level p	LESSON	S: AUDIO	О ТЕСН,	2 CREDIT	S
-	INDIVIDUAL College-level p es: MUS-189			CH HOR	N, 2 CRED	DITS	oc	MUP-192T-01 M. BAIRD Required: Stu		\$252.00		\$450.00 Jsic Lessor	\$728.00 ns.
OC LCT	MUP-187-01 R. OLASON Required: Stu	<b>334662</b> udent Peti	\$252.00	\$26.00	\$450.00	\$728.00	oc	MUP-192T-02 D. BADSTUB Required: Stu MUP-192T-03	NER udent Peti	\$252.00 tion. Aud		\$450.00 ding Lessor	\$728.00 ns.
	INDIVIDUAL College-level p es: MUS-189			IBONE, 2	2 CREDITS	;	Music	R. SOMMER Required: Stu	S udent Peti	\$252.00 tion. Live	Sound L	\$450.00 essons.	\$728.00
OC LCT	MUP-188-01 L. CAMPBEL Required: Stu	udent Peti	\$252.00 ition.	\$26.00	\$450.00	\$728.00	Second-y available	/ear private le to qualified n	essons re on-majoi	quired for rs. End-c	or music of-term j	uried	
oc	MUP-188-02 C. RENEAU Required: Stu	<b>339417</b> udent Peti	\$252.00	\$26.00	\$450.00	\$728.00		nce mandato					redits.
	INDIVIDUAL College-level p			TROMB	ONE, 2 CR	EDITS	Corequisi	ites: MUP-171 tes: MUS-189 Sophomore-le			vility		
OC LCT	MUP-188J-01 L. CAMPBEL Required: Stu	L	\$252.00	\$26.00	\$450.00	\$728.00	OC LCT	MUP-271-01 Y. MIYAMA MUP-271-02 T. STOJANO	334705 339418	<b>TBA</b> \$252.00 <b>TBA</b>	\$26.00	\$450.00 \$450.00	\$728.00 \$728.00
OC: Orego WILS: Wils	<b>cations:</b> nony Community n City Campus conville Training ( r Off-Campus Lo	Center	ONL: REM	Online Or Remote (	tion Notifica hly w/ scheduled plus online v	d meetings)	<b>TBA:</b> To be department f	g Translations: arranged: contact first class le credit class	t		<b>)L:</b> Enseñ w-Cost Te	ado en espa xt	ñol

Course							-						2025/WI
Course No	Course Title, Cre				_		Course No	Course Title, C		_			
	Section No C Instructor		ays (M,T,W,T uition F	H.F,S,SU) <b>ee</b>	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total
	INDIVIDUAL LE tes: MUP-171J (		JAZZ P	IANO, 2	2 CREDITS		OC LCT	MUP-276-01 H. OSEAS	334728		\$26.00	\$450.00	\$728.0
Required:	Sophomore-level	l performa	ance abili	ty			MUP-277	INDIVIDUAL I	ESSON	S: CELL	0, 2 CRE	DITS	
OC LCT	MUP-271J-01 3 K. POLITZER			\$26.00	\$450.00	\$728.00	Corequisit	tes: MUP-177 ( tes: MUS-189		, 			
MUP-271R	INDIVIDUAL LE	ESSONS:	ROCK,	BLUES	6, POP PIAI	NO, 2	OC LCT	Sophomore-lev	334730	ТВА		<b>\$</b> 450.00	<b>#</b> 700.0
•	tes: MUP-171R ( Sophomore-level	• • •		tv				C. AVERILL	50001		\$26.00		\$728.0
OC LCT	MUP-271R-01	334711 T	ВА		¢450.00	¢709.00	Prerequisi	INDIVIDUAL I ites: MUP-178 (			, 2 CREL	115	
ос	D. FLESCHNEF	339419 T	ВА		\$450.00	\$728.00		tes: MUS-189 Sophomore-lev	el perfori	mance ab	oility		
MI ID-272	K. HOLLINGSW					\$728.00	OC LCT	MUP-278-01 K. DEITZ	334732		\$26.00	\$450.00	\$728.0
Prerequisi Corequisit	tes: MUP-172 (6 es: MUS-189	i credits)			EDITS			INDIVIDUAL I ites: MUP-178J		S: JAZZ			
	Sophomore-level	•		ty			Required:	Sophomore-lev	el perforr	nance ab	oility		
OC LCT	MUP-272-01	334715 T \$2		\$26.00	\$450.00	\$728.00	OC LCT	MUP-278J-01 K. DEITZ		\$252.00	\$26.00	\$450.00	\$728.0
	INDIVIDUAL LI tes: MUP-174 (6		VOICE,	2 CRE	DITS		OC LCT	MUP-278J-02 T. WAKELING			\$26.00	\$450.00	\$728.0
Corequisit	es: MUS-189 Sophomore-level		ance abili	ty			MUP-278F	R INDIVIDUAL I CREDITS	ESSON	S: ROCK	K, BLUES	S, POP BAS	SS, 2
OC LCT	MUP-274-01 3	334718 T \$2		\$26.00	\$450.00	\$728.00	•	tes: MUP-178R Sophomore-lev		,	oility		
OC LCT	MUP-274-02 3 B. MICHAEL	334721 T \$2		\$26.00	\$450.00	\$728.00	ос	MUP-278R-01 K. DEITZ	337964		\$26.00	\$450.00	\$728.0
Prerequisi Corequisit	INDIVIDUAL LI tes: MUP-174J ( es: MUS-189 Sophomore-level	6 credits)		·	2 CREDITS		Prerequisi Corequisit	INDIVIDUAL I ites: MUP-179 ( ites: MUS-189 Sophomore-lev	6 credits	)		DITS	
OC LCT	MUP-274J-01	334722 T	ВА				OC LCT	MUP-279-01	334738		Jinty		
OC LCT	J. ISRAELS MUP-274J-02			\$26.00	\$450.00	\$728.00	00 201	TBA	334730		\$26.00	\$450.00	\$728.0
MUP-274R	B. MICHAEL				\$450.00 <b>5, POP VOI</b>	\$728.00 CE, 2	•	INDIVIDUAL I ites: MUP-180 ( ites: MUS-189			AR, 2 CR	EDITS	
Prereguisi	CREDITS tes: MUP-174R (	(6 credits)						Sophomore-lev	el perfori	mance ab	oility		
•	Sophomore-level	l performa	ance abili	ty			OC LCT	MUP-280-01 D. TUTMARK	334741		\$26.00	\$450.00	\$728.0
oc	MUP-274R-01 3 J. ISRAELS MUP-274R-02 3	\$2	252.00 \$	\$26.00	\$450.00	\$728.00					GUITAR	, 2 CREDIT	s
	B. MICHAEL			\$26.00	\$450.00	\$728.00	•	tes: MUP-180J Sophomore-lev	•	,	oility		
Prerequisi	INDIVIDUAL LI tes: MUP-175 (6		VIOLIN	2 CRE	DITS		OC LCT	MUP-280J-01 C. WOITACH	334743		\$26.00	\$450.00	\$728.0
	es: MUS-189 Sophomore-level	performa	ance abili	tv			MUP-280R		ESSON	S: ROCK	K, BLUES	, POP GU	ITAR, 2
OC LCT	•	334727 T	ВА		\$450.00	\$728.00		CREDITS ites: MUP-180R Sophomore-lev	•	,	oility		
Prerequisi	INDIVIDUAL LI tes: MUP-176 (6		VIOLA,	2 CRE	DITS		OC LCT	MUP-280R-01 A. CSIKOS		ТВА	\$26.00	\$450.00	\$728.0
	es: MUS-189 Sophomore-level	l performa	ance abili	ty			MUP-281	INDIVIDUAL I	LESSON	S: FLUT	E, 2 CRE	DITS	
•	cations:			-	tion Notifica	ion:	Other Coding	Translations:		ESPAÑO	DL: Enseña	ado en espai	ñol

Course No	Course Title, C	redits					Course No	o Course Title, Ci	redits				
	Section No Instructor		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
Corequisit	i <b>tes:</b> MUP-181 t <b>es:</b> MUS-189 Sophomore-lev	·	,	vility				J INDIVIDUAL L ites: MUP-186J			TRUMPI	ET, 2 CRE	DITS
OC LCT	MUP-281-01	334750		Jiiity				Sophomore-leve			oility		
00	K. GIFFORD MUP-281-02	339513	\$252.00 <b>TBA</b>		\$450.00	\$728.00	OC LCT	MUP-286J-01 Q. WALKER	334769		\$26.00	\$450.00	\$728.00
Prerequisi	S. TIEDEMAN INDIVIDUAL ites: MUP-181J Sophomore-lev	LESSON I (6 credit	IS: JAZZ	FLUTE,	\$450.00 2 CREDITS	\$728.00	Prerequis Corequisi	INDIVIDUAL L ites: MUP-187 (6 tes: MUS-189 Sophomore-leve	6 credits	)		N, 2 CREI	DITS
OC LCT	MUP-281J-01 G. HARRIS	334751		\$26.00	\$450.00	\$728.00	OC LCT	MUP-287-01 R. OLASON	334772		\$26.00	\$450.00	\$728.00
Prerequisi Corequisit	INDIVIDUAL ites: MUP-182 ites: MUS-189	(6 credits	;)	,	DITS		Prerequis Corequisi	INDIVIDUAL L ites: MUP-188 (6 tes: MUS-189	6 credits	)		2 CREDITS	6
•	Sophomore-lev			oility				Sophomore-leve			ollity		
OC LCT	MUP-282-01 C. LEE INDIVIDUAL	334754	\$252.00		\$450.00	\$728.00	OC LCT OC		334773 339509	\$252.00 <b>TBA</b>		\$450.00	\$728.00
Prerequisi	ites: MUP-183			iine I , 2	CREDITS		MUP-288	C. RENEAU J INDIVIDUAL L	.ESSON			\$450.00 ONE, 2 CF	\$728.00 REDITS
Required:	Sophomore-lev	el perfor	mance at	oility			•	ites: MUP-188J		,			
OC LCT	MUP-283-01 L. DE MARTII	334757 NO		\$26.00	\$450.00	\$728.00	OC LCT	Sophomore-leve MUP-288J-01 L. CAMPBELL	334776	ТВА		\$450.00	\$728.00
Prerequisi	ites: MUP-183J Sophomore-lev MUP-283J-01	l (6 credit /el perfor	ts) mance at <b>TBA</b>	oility			Prerequis Corequisi	INDIVIDUAL L ites: MUP-189 (6 tes: MUS-189 Sophomore-leve	6 credits	)		2 CREDIT	S
Prerequisi	TBA INDIVIDUAL ites: MUP-184 ites: MUS-189		IS: SAXC		\$450.00 , <b>2 CREDIT</b> S	\$728.00 <b>S</b>	OC LCT	MUP-289-01 G. MIDDLETO	<b>334779</b> N	<b>TBA</b> \$252.00	\$26.00	\$450.00 DITS	\$728.00
•	Sophomore-lev	el perfor	mance at	oility			•	ites: MUP-190 (6	6 credits	)			
OC LCT	MUP-284-01	334760	TBA					tes: MUS-189 Sophomore-leve	al porfor	manaa ah	, ility		
MI IP-284.I	G. HARRIS	LESSON			\$450.00	\$728.00	OC LCT	MUP-290-01 TBA	334781	ТВА		\$450.00	\$728.00
Prerequisi	ites: MUP-184J Sophomore-lev	I (6 credit	is)		10112, 2 01	LDITO	MUP-291		ESSON				,
OC LCT	MUP-284J-01 G. HARRIS	334762		\$26.00	\$450.00	\$728.00	Corequisi	ites: MUP-191 (6 tes: MUS-189 Sophomore-leve			oility		
Prerequisi	INDIVIDUAL ites: MUP-185 ites: MUS-189			500N, 2	CREDITS		OC LCT	MUP-291-01 B. Gardiner	334784		\$26.00	\$450.00	\$728.00
Required:	Sophomore-lev	el perfor	mance at	oility							PERCUS	SSION, 2 C	CREDITS
OC LCT	MUP-285-01 N. BUETTI	334764		\$26.00	\$450.00	\$728.00	Required:	ites: MUP-191J Sophomore-leve	el perfori	nance ab	oility		
Prerequisi	INDIVIDUAL ites: MUP-186 ites: MUS-189			IPET, 2 (	CREDITS		OC LCT	MUP-291J-01 C. Doggett R INDIVIDUAL L		\$252.00		\$450.00	\$728.00
•	Sophomore-lev	el perfor	mance at	oility				CREDITS			,	,	, -
OC LCT	MUP-286-01 J. KLAUSE	334766	ТВА		\$450.00	\$728.00	•	ites: MUP-191R Sophomore-leve		,	oility		
OC: Orego WILS: Wils	cations: nony Community n City Campus sonville Training C r Off-Campus Loc	Center	ONL: REM	: Online O : Remote (	tion Notifica nly (w/ schedulec n plus online v	d meetings)	TBA: To be department	g Translations: arranged: contact first class lle credit class			<b>)L:</b> Enseñ w-Cost Te:	ado en espa kt	iñol

	202	25/WI

Course No	Course Title, Cr	redits					Course No	Course Tit
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total		Section No Instructor
oc	MUP-291R-01 C. DOGGETT			\$26.00	\$450.00	\$728.00	HAR	NRS-111-0 C. BURT B. ELLISO

### MUP-292T INDIVIDUAL LESSONS: AUDIO TECH, 2 CREDITS

**Prerequisites:** MUP-192T (6 credits) **Required:** Sophomore-level performance ability

		initianee as			
ос	MUP-292T-01 33796	6 TBA			
	M. BAIRD	\$252.00	\$26.00	\$450.00	\$728.00
	Electronic Music Less	sons.			
oc	MUP-292T-02 33796	7 TBA			
	D. BADSTUBNER	\$252.00	\$26.00	\$450.00	\$728.00
	Audio Recording Les	sons.			
oc	MUP-292T-03 33796	8 TBA			
	R. SOMMERS	\$252.00	\$26.00	\$450.00	\$728.00
	Live Sound Lessons.				

### Nursing

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

Admission into the nursing program is by special application only. Acceptance to the nursing program allows for 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-111 FOUNDATIONS OF NURSING IN CHRONIC ILLNESS I, 3 CREDITS

This course introduces assessment and common interventions (including technical procedures) for patients with chronic illnesses common across the life span in multiple ethnic groups. The patient's and family's lived experience of the condition is explored. Clinical practice guidelines and research evidence are used to guide clinical judgments in care of individuals with chronic conditions. Multidisciplinary team roles and responsibilities are explored in the context of delivering safe, high quality health care to individuals with chronic conditions (includes practical and legal aspects of delegation). Cultural, ethical, legal and health care delivery issues are explored through case scenarios and clinical practice. Case exemplars include children with asthma, adolescents with a mood disorder, adults with type 2 diabetes, and older adults with dementia. The course includes classroom and clinical learning experiences.

Required: Acceptance into the CCC nursing program Prerequisites: NRS-110, NRS-110C, and NRS-230 Corequisites: NRS-111C, NRS-231, and NRS-232

# Course No Course Title, Credits Section No Crs Reg. Days (M,T,W,TH.F,S,SU) Time Tuition Fee Total HAR NRS-111-01 334853 M 9-11:50 AM 0 C. BURT \$378.00 \$39.00 \$400.00 \$817.00 B. ELLISON R. TARTER Same Area and Same Area

### NRS-111C FOUNDATIONS OF NURSING IN CHRONIC ILLNESS I CLINICAL, 3 CREDITS

This course introduces assessment and common interventions (including technical procedures) for clients with chronic illnesses common across the life span in major ethnic groups within Oregon. The client's and family's lived experience of the condition is explored. Clinical practice guidelines and research evidence are used to guide clinical judgments in care of individuals with chronic conditions. Multidisciplinary team roles and responsibilities are considered in the context of delivering safe, high quality health care to individuals with chronic conditions (includes practical and legal aspects of delegation). Cultural, ethical, legal and health care delivery issues are explored through case scenarios and clinical practice. Case exemplars include children with asthma, adolescents with a mood disorder, adults with type 2 diabetes, and older adults with dementia. The course includes classroom and clinical learning experiences with simulation experience as part of total clinical hours.

Required: Acceptance into the CCC nursing program Prerequisites: NRS-110, NRS-110C, and NRS-230 Corequisites: NRS-111, NRS-231, and NRS-232

HAR	NRS-111C-01	334856	T W		9-10:50 AM 9-1:00 PM	
	C. BURT B. ELLISON B. TARTER		\$378.00	\$39.00	\$350.00	\$767.00
HAR	NRS-111C-02	334857	Т		11-12:50 PM	
			W	1:30 -5:30 PM		
	C. BURT B. ELLISON R. TARTER		\$378.00	\$39.00	\$350.00	\$767.00
HAR	NRS-111C-03	334859	т		1:30 -3:20	D PM
			тн		9-1:00 PM	
	C. BURT B. ELLISON R. TARTER		\$378.00	\$39.00	\$350.00	\$767.00

### NRS-221 CHRONIC ILLNESS II AND END OF LIFE, 4 CREDITS

This course builds on NRS-111 and expands the student's knowledge related to family care giving, symptom management and end of life concepts. These concepts are a major focus and basis for nursing interventions with patients and families. Ethical issues related to advocacy, self-determination, and autonomy are explored. Complex skills associated with the assessment and management of concurrent illnesses and conditions are developed within the context of patient and family preferences and needs. Skills related to enhancing communication and collaboration as a member of an interprofessional team and across health care settings are further explored. Exemplars include patients with chronic mental illness and addictions as well as other chronic conditions and disabilities affecting functional status and family relationships. The course includes classroom and clinical learning experiences.

Required: Acceptance into the CCC nursing program

Corequisites: NRS-221C Prerequisites: NRS-222 and NRS-222C

IAR	NRS-221-01	334860	М		8:30 -10:20 AM				
			М		11-12:50 PM				
	G. CONNELL K. RICHARDS		\$504.00	\$52.00	\$312.00	\$868.00			

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

н

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

# NRS-221C CHRONIC ILLNESS II AND END OF LIFE CLINICAL, 5 CREDITS

This course builds on NRS-111 and expands the student's knowledge related to family care giving, symptom management and end of life concepts. These concepts are a major focus and basis for nursing interventions with patients and families. Ethical issues related to advocacy, self determination, and autonomy are explored. Complex skills associated with the assessment and management of concurrent illnesses and conditions are developed within the context of patient and family preferences and needs. Skills related to enhancing communication and collaboration as a member of an interdisciplinary team are further explored. Exemplars include patients with chronic mental illness and addictions as well as other chronic conditions and disabilities affecting functional status and family relationships. The course includes classroom and clinical learning experiences.

Required: Acceptance into the CCC nursing program Corequisites: NRS-221

Prerequisites: NRS-222 and NRS-222C

HAR       K. RICHARDS         HAR       NRS-221C-02       334864 TBA         G. CONNELL       \$630.00       \$65.00       \$175.00       \$870         K. RICHARDS       K. RICHARDS       \$630.00       \$65.00       \$175.00       \$870         HAR       NRS-221C-03       334866 TBA       \$630.00       \$65.00       \$175.00       \$870         K. RICHARDS       \$630.00       \$65.00       \$175.00       \$870         HAR       NRS-221C-04       339464 TBA       \$630.00       \$65.00       \$175.00       \$870         HAR       NRS-221C-05       339465 TBA       \$39465 TBA       \$39465 TBA       \$39465 TBA		
HAR       K. RICHARDS         HAR       NRS-221C-02       334864 TBA         G. CONNELL       \$630.00       \$65.00       \$175.00       \$870         K. RICHARDS       K. RICHARDS       \$630.00       \$65.00       \$175.00       \$870         HAR       NRS-221C-03       334866 TBA       \$630.00       \$65.00       \$175.00       \$870         K. RICHARDS       \$630.00       \$65.00       \$175.00       \$870         HAR       NRS-221C-04       339464 TBA       \$630.00       \$65.00       \$175.00       \$870         HAR       NRS-221C-05       339465 TBA       \$39465 TBA       \$39465 TBA       \$39465 TBA	HAR	NRS-221C-01 334862 TBA
HAR         NRS-221C-02         334864 TBA           G. CONNELL         \$630.00         \$65.00         \$175.00         \$870           K. RICHARDS           \$630.00         \$65.00         \$175.00         \$870           HAR         NRS-221C-03         334866 TBA          \$630.00         \$65.00         \$175.00         \$870           K. RICHARDS          \$630.00         \$65.00         \$175.00         \$870           HAR         NRS-221C-04         339464 TBA         \$630.00         \$65.00         \$175.00         \$870           K. RICHARDS          \$630.00         \$65.00         \$175.00         \$870           HAR         NRS-221C-05         339465 TBA         \$650.00         \$175.00         \$870		G. CONNELL \$630.00 \$65.00 \$175.00 \$870.00
G. CONNELL \$630.00 \$65.00 \$175.00 \$870 K. RICHARDS HAR NRS-221C-03 334866 TBA G. CONNELL \$630.00 \$65.00 \$175.00 \$870 K. RICHARDS HAR NRS-221C-04 339464 TBA G. CONNELL \$630.00 \$65.00 \$175.00 \$870 K. RICHARDS HAR NRS-221C-05 339465 TBA		
K. RICHARDS HAR NRS-221C-03 334866 TBA G. CONNELL \$630.00 \$65.00 \$175.00 \$870 K. RICHARDS HAR NRS-221C-04 339464 TBA G. CONNELL \$630.00 \$65.00 \$175.00 \$870 K. RICHARDS HAR NRS-221C-05 339465 TBA	HAR	NRS-221C-02 334864 TBA
HAR         NRS-221C-03         334866 TBA           G. CONNELL         \$630.00         \$65.00         \$175.00         \$870           K. RICHARDS           \$630.00         \$65.00         \$175.00         \$870           HAR         NRS-221C-04         339464 TBA          \$630.00         \$65.00         \$175.00         \$870           K. RICHARDS          \$630.00         \$65.00         \$175.00         \$870           HAR         NRS-221C-05         339465 TBA         \$39465 TBA         \$39465 TBA         \$39465 TBA		G. CONNELL \$630.00 \$65.00 \$175.00 \$870.00
G. CONNELL \$630.00 \$65.00 \$175.00 \$870 K. RICHARDS HAR NRS-221C-04 339464 TBA G. CONNELL \$630.00 \$65.00 \$175.00 \$870 K. RICHARDS HAR NRS-221C-05 339465 TBA		K. RICHARDS
K. RICHARDS HAR NRS-221C-04 339464 TBA G. CONNELL \$630.00 \$65.00 \$175.00 \$870 K. RICHARDS HAR NRS-221C-05 339465 TBA	HAR	NRS-221C-03 334866 TBA
HAR         NRS-221C-04         339464 TBA           G. CONNELL         \$630.00         \$65.00         \$175.00         \$870           K. RICHARDS           HAR         NRS-221C-05         339465 TBA		G. CONNELL \$630.00 \$65.00 \$175.00 \$870.00
G. CONNELL \$630.00 \$65.00 \$175.00 \$870 K. RICHARDS HAB NRS-221C-05 339465 TBA		K. RICHARDS
K. RICHARDS HAR NRS-221C-05 339465 TBA	HAR	NRS-221C-04 339464 TBA
HAR NRS-221C-05 339465 TBA		G. CONNELL \$630.00 \$65.00 \$175.00 \$870.00
		K. RICHARDS
	HAR	NRS-221C-05 339465 TBA
G. CONNELL \$630.00 \$65.00 \$175.00 \$870		G. CONNELL \$630.00 \$65.00 \$175.00 \$870.00
K. RICHARDS		K. RICHARDS

# NRS-231 CLINICAL PHARMACOLOGY II, 3 CREDITS

This sequel to NRS-230 continues to provide the theoretical background that enables students to provide safe and effective nursing care related to drugs and natural products to persons throughout the lifespan. Students will learn to make selected clinical decisions in the context of nursing regarding using current, reliable sources of information, monitoring and evaluating the effectiveness of drug therapy, teaching persons from diverse populations regarding safe and effective use of drugs and natural products, intervening to increase therapeutic benefits and reduce potential negative effects, and communicating appropriately with other health professionals regarding drug therapy. The course addresses additional classes of drugs and related natural products not contained in NRS-230.

Required: Acceptance into the CCC nursing program Prerequisites: NRS-110, NRS-110C, and NRS-230 Corequisites: NRS-111, NRS-111C, and NRS-232

HAR HYB	NRS-231-01	334867 F		8:30 -10:20 AM	
	K. RICHARDS	\$378.00	\$39.00	\$90.00	\$507.00

# NRS-232 PATHOPHYSIOLOGICAL PROCESSES I, 3 CREDITS

Section No Crs Reg. Days (M,T,W,TH.F,S,SU) Time Instructor Tuition Fee Crs. Fee Total This course introduces pathophysiological processes that contribute to many different disease states across the lifespan and human responses to those processes. It includes the foundational concepts of cellular adaptation, injury, and death; inflammation and tissue healing; fluid and electrolyte imbalances; and physiologic response to stressors, as well as additional pathophysiological processes. Students will learn to make selective 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. Required: Acceptance into the CCC nursing program

Prerequisites: NRS-110, NRS-110C, and NRS-230 Corequisites: NRS-111, NRS-111C, and NRS-231

Course No Course Title, Credits

HAR HYB	NRS-232-01	334868 M 12:30 -2:		20 PM	
	G. CONNELL	\$378.00	\$39.00	\$170.00	\$587.00

# NUR-100 NURSING ASSISTANT I, 6.5 CREDITS

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

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

# Corequisites: NUR-100C

HAR HYB	NUR-100-01	334872 TW		8-12:30	РМ
	M. BAKER	\$819.00	\$84.50	\$300.00	\$1,203.50
	S. ELLSBERG				
	K. STIPE				
	Required: Stu	dent Petition. Infor	mation s	ession de	tails will
	be posted to t	ne nursing assista	nt websi	te. Please	see
		plication & orienta			
	•	•			
HAR HYB	NUR-100-02	339461 TW		1-5:30 P	М
HAR HYB	NUR-100-02 M. BAKER		\$84.50		M \$1,203.50
HAR HYB		\$819.00	\$84.50		
HAR HYB	M. BAKER	\$819.00	\$84.50		
HAR HYB	M. BAKER S. ELLSBERG K. STIPE	\$819.00		\$300.00	\$1,203.50
HAR HYB	M. BAKER S. ELLSBERG K. STIPE Required: Stu	\$819.00 dent Petition. Infor	mation s	\$300.00	\$1,203.50 tails will
HAR HYB	M. BAKER S. ELLSBERG K. STIPE Required: Stud be posted to ti	\$819.00	mation s	\$300.00 session de te. Please	\$1,203.50 tails will

# 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.

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

www.clackamas.edu 73

Course No	Course Title, Credits						
	Section No Instructor	Crs Reg.	Days (M,T, Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total	
Corequisit	tes: NUR-100						
HAR	NUR-100C-01	334876	ттт				
	K. STIPE		\$0.00	\$0.00	\$0.00	\$0.00	
	Required: Stud	dent Pet	ition.				
HAR	NUR-100C-02	339462	TWTH				
	K. STIPE		\$0.00	\$0.00	\$0.00	\$0.00	
	Required: Stud	dent Pet	ition.				
HAR	NUR-100C-03	339463	TWTH				
	K. STIPE		\$0.00	\$0.00	\$0.00	\$0.00	
	Required: Stud	dent Pet	ition.				

# Philosophy

### PHILOSOPHICAL PROBLEMS, 4 CREDITS PHL-101

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	FPHL-101-01	335595	тн		10-11:50 A	M
	K. SEVERSON	1	\$504.00	\$52.00	\$0.00	\$556.00
	No textbook re	quired.				
ONL LCT	PHL-101-02	338060				
	K. HADDIX		\$504.00	\$52.00	\$0.00	\$556.00
ONL LCT	PHL-101-02	•		\$52.00	\$0.00	\$556.00

# PHL-102 ETHICS, 4 CREDITS

Introduces the study of morality with concepts of good, harm, habits, character, perception, behavior and action. Also considers the different theories of human capacity for responsibility.

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

ONL LCT	PHL-102-01 3	35596			
	M. BAILEY	\$504.00	\$52.00	\$0.00	\$556.00
	No textbook requ	uired.			

# PHL-103 CRITICAL REASONING, 4 CREDITS

Helps students identify and understand the process by which they themselves and others arrive at conclusions; improves their critical reasoning skills; introduces basic logical concepts of argument; and gives opportunity for students to apply course skills to relevant matters. Recommended Prerequisites: WRD-098 or placement in WR-121Z

ONL LCT HAR HYB LCT	PHL-103-01 K. Haddix PHL-103-15	335602 338061	\$504.00	\$52.00	\$0.00 <b>10-11:50</b>	\$556.00 <b>AM</b>
	M. BAILEY No textbook re		\$504.00	\$52.00	\$0.00	\$556.00

# Phlebotomy

# PHB-125 PROFESSIONALISM IN HEALTHCARE, 1 CREDIT

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

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

Corequisites: PHB-130
-----------------------

ONL	PHB-125-01	334878
	E. ZUNIGA	\$126.00 \$13.00 \$100.00 \$239.00
	Required: Stu	lent Petition.

# PHB-130 PHLEBOTOMY PRACTICUM, 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

Course N	lo Course Title, C	Credits				
	Section No Instructor	Crs Reg.	Days (M,T,) Tuition	W,TH.F,S,SU) Fee	Time Crs. Fee	Total
or clinical practical	nands-on experie I environment, pr skills and knowle nal experience ir	oviding the	ie opportu ied in pre	unity for s vious cou	students to	apply
students. 19. Comp card throu <b>Prerequi</b> s	I: Compliance wi Vaccination reco bleted criminal ba ugh the Americar sites: PHB-110, sites: PHB-125	ords for To ackground n Heart As	dap, MMF I check, d ssociatior	R, Varicel rug scree 1	la, Hep B,	COVID-
HAR	PHB-130-01 J. ALLISON	334880	<b>TBA</b> \$630.00	\$65.00	\$125.00	\$820.00

2025/W

# Physical Education

E. ZUNIGA

Required: Student Petition.

PE-185 Recomme	PHYSICAL ACTIVITY CLASSES, 1 CREDIT nded: Current physical examination before enrolling
oc	BASEBALL CONDITIONING II, 1 CREDIT           PE-185-008         339377         MWF         8-8:50 AM           J. HOPPEL         \$126.00         \$13.00         \$30.00         \$169.00           Required: Student Petition.         \$128.00         \$100         \$100         \$100
ос	BASEBALL HITTING II, 1 CREDIT           PE-185-010         339378 MWF         9-9:50 AM           J. HOPPEL         \$126.00         \$13.00         \$30.00         \$169.00           Required: Student Petition.         \$126.00         \$13.00         \$169.00
ONL	CROSS TRAINING V, 1 CREDIT           PE-185-050         339380           B. STAMME         \$126.00         \$13.00         \$30.00         \$169.00
ONL	CROSS TRAINING V, 1 CREDIT           PE-185-052         339582           B. STAMME         \$126.00         \$13.00         \$30.00         \$169.00
ос	SOFTBALL CONDITIONING II, 1 CREDIT           PE-185-088         339381         TTH         7:30 -8:50         AM           J. BUEL         \$126.00         \$13.00         \$30.00         \$169.00           Required: Student Petition.         \$1200         \$1000         \$1000         \$1000
ос	SOFTBALL HITTING II, 1 CREDIT           PE-185-090         339382 TTH         9-10:20 AM           J. BUEL         \$126.00         \$13.00         \$30.00         \$169.00           Required: Student Petition.         \$120.00         \$13.00         \$169.00
ос	TRACK CONDITIONING II, 1 CREDIT           PE-185-105         339383 MWF         2:30 -5:20 PM           K. MCHONE         \$126.00         \$13.00         \$169.00           Required: Student Petition.         \$120.00         \$100.00         \$169.00
ос	VOLLEYBALL, POWER II, 1 CREDIT           PE-185-030         339379 T         6:30 -9:20 PM           A. ITAMI         \$126.00         \$13.00         \$30.00         \$169.00           Required: Student Petition.         \$1200         \$1200         \$1200         \$1200
ONL	WALK, JOG, FITNESS II, 1 CREDIT           PE-185-002         335509           K. MCHONE         \$126.00         \$13.00         \$30.00         \$169.00
ONL	WEIGHT TRAINING II, 1 CREDIT           PE-185-064         335525           C. WEGNER         \$126.00         \$13.00         \$30.00         \$169.00
ос	WEIGHT TRAINING II, 1 CREDIT           PE-185-063 335520 TTH         10-11:20 AM           C. WEGNER         \$126.00         \$13.00         \$30.00         \$169.00
	Translations: ESPAÑOI : Enseñado en español

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,W,TH.F,S,SU) Tuition Fee	Time Crs. Fee	Total
ONL	YOGA II, 1 C PF-185-001	REDIT 335508	3		

	000000		
E. HANCOC	CK \$126.00	\$13.00 \$30.00	\$169.00

# PE-240 STRENGTH & CONDITIONING THEORY & TECHNIQUES, 3 CREDITS

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

OC HYB	PE-240-01	335539 W		11-11:	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	335542	
	K. MCHONE	\$378.00 \$39.00 \$0.00 \$417.00	)

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

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

## Corequisites: CWE-281

ONL	PE-280-01	335543			
	T. NELSON	\$756.00	\$78.00	\$45.00	\$879.00V
	and complete http://www.cla	dent Petition. Revi the online applicat ckamas.edu/CWE prequisite: Take th	tion to th -Student	e program s.aspx pri	at or to

# 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.

	BASKETBALI	SKILLS & STRA	TEGIES, 1 C	REDIT
ос	PE-294-02	339384 MWF	12-1	:50 PM
	C. WEGNER	\$126.00	\$13.00 \$30.	00 \$169.00
	Required: Stud	dent Petition.		
	BASKETBALI	SKILLS & STRA	TEGIES, 1 C	REDIT
ос		339385 MWF	3-4:	50 PM
C	PE-294-03	<b>339385 MWF</b> RF \$126.00	• • •	

# 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.

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/WI

Course No	Course Title, Cr	redits			
	Section No Instructor	Crs Reg.	Days (M,T,W,TH.F,S,SU) Tuition Fee	Time Crs. Fee	Total
Prerequisit MTH-095	<b>es:</b> MTH-065 o	r MTH-09	98 with a C or bett	er or placeme	ent in

# Corequisites: PH-121L

Prerequisites: WRD-090 or placement in WRD-098

ONL LCT	<b>PH-121-40</b> C. SHARON	335552	\$504.00	\$52.00	\$25.00	\$581.00
	Lab included.					

# PH-121L ASTRONOMY LAB, 0 CREDIT

Lab course for PH-121L

Corequisites: PH-121

ONL	PH-121L-40 33	5554			
	C. SHARON	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take	the following	PH-121-	40.	

# PH-122 GENERAL ASTRONOMY, 4 CREDITS

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

Prerequisites: PH-121 or GS-107

Corequisites: PH-122L

ONL	PH-122-40	335555			
	C. SHARON	\$504.00	\$52.00	\$20.00	\$576.00

# PH-122L GENERAL ASTRONOMY LAB, 0 CREDIT

Lab course f	for PH-122
--------------	------------

Corequisites: PH-122

ONL	PH-122L-40	335556			
	C. SHARON	\$0.00	\$0.00	\$0.00	\$0.00

# PH-202 GENERAL PHYSICS, 5 CREDITS

A lab course covering electricity, magnetism, DC and AC circuits, and electromagnetic radiation.

Prerequisites: PH-201

Corequisites: PH-202L and PH-202S

oc PH-202-01 335558 MW 11-12:20 PM T. STUFFLEBEAM \$630.00 \$65.00 \$50.00 \$745.00 Corequisite: Take 2 of the following PH-202L-01, PH-202L-02, PH-202L-03, PH-202S-01.

# PH-202L GENERAL PHYSICS LAB, 0 CREDIT

Lab course for PH-202

Corequisites: PH-202 and PH-202S

- oc
   PH-202L-01
   335562 T
   9-11:50 AM

   T. STUFFLEBEAM
   \$0.00
   \$0.00
   \$0.00

   Corequisite: Take the following PH-202-01, PH-202S-01.
   PH-202S-01.
   PH-202S-01.
- oc PH-202L-02 335564 TH 1-3:50 PM G. BOSTROM \$0.00 \$0.00 \$0.00 Corequisite: Take the following PH-202-01, PH-202S-01.
- oc PH-202L-03 335565 F 11-1:50 PM G. BOSTROM \$0.00 \$0.00 \$0.00 Corequisite: Take the following PH-202-01, PH-202S-01.

# PH-202S GENERAL PHYSICS SEMINAR, 0 CREDIT

Seminar course for PH-202

 Corequisites: PH-202 and PH-202L

 oc
 PH-202S-01
 335567 T
 12-12:50 PM

 T. STUFFLEBEAM
 \$0.00
 \$0.00
 \$0.00

 Corequisite: Take 2 of the following PH-202-01, PH-202L-01, PH-202L-02, PH-202L-03.
 PH-202L-03.
 PH-202L-03.

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

Course No	Course Title, Credits		
		Days (M,T,W,TH.F,S,SU) Tuition Fee	Time Crs. Fee Total
PH-212	GENERAL PHYSICS V	VITH CALCULUS	, 5 CREDITS
	se covering electricity, ma	agnetism, DC and	AC circuits, and
	gnetic radiation.		
	i <b>tes:</b> MTH-252 and PH-2 <sup>-</sup> t <b>es:</b> PH-212L and PH-212		
	nded Prerequisites: MT		
ос	PH-212-01 335568		11-12:20 PM
	G. BOSTROM Corequisite: Take 2 of t	\$630.00 \$65.00 be following PH-2	
	02, PH-212L-03, PH-21	•	
ос	PH-212-02 335570		1-2:20 PM
	G. BOSTROM Corequisite: Take 2 of t	\$630.00 \$65.00	
	02, PH-202L-03, PH-21		
PH-212L	GENERAL PHYSICS V	VITH CALCULUS	LAB, 0 CREDIT
Lab cours	e for PH-212		
Corequisi	tes: PH-212 and PH-212	S	
oc	<b>PH-212L-01 335571</b> T. STUFFLEBEAM	<b>T</b> \$0.00 \$0.00	<b>9-11:50 AM</b> \$0.00 \$0.00
	Corequisite: Take 2 of t		
	PH-212S-01, PH-212S-		
oc	<b>PH-212L-02 335572</b> G. BOSTROM	<b>TH</b> \$0.00 \$0.00	<b>1-3:50 PM</b> \$0.00 \$0.00
	Corequisite: Take 2 of t		
	PH-212S-01, PH-212S-	•	, ,
oc	PH-212L-03 335573		11-1:50 PM
	G. BOSTROM Corequisite: Take 2 of t	\$0.00 \$0.00 he following PH-2	\$0.00 \$0.00 12-01 PH-212-02
	PH-212S-01, PH-212S-	•	
PH-212S	GENERAL PHYSICS V CREDIT	VITH CALCULUS	SEMINAR, 0
Seminar c	ourse for PH-212		
	tes: PH-212 and PH-212	L	
oc .	PH-212S-01 335574	тн	11-11:50 AM
		\$0.00 \$0.00	\$0.00 \$0.00
	Corequisite: Take 2 of t PH-212L-01, PH-212L-		12-01, PH-212-02,
ос	PH-212L-01, PH-212L- PH-212S-02 335575		4-4:50 PM
		\$0.00 \$0.00	\$0.00 \$0.00
	Corequisite: Take 2 of t PH-212L-01, PH-212L-		12-01, PH-212-02,
ос	PH-212S-03 335576		2-2:50 PM
		\$0.00 \$0.00	\$0.00 \$0.00
	Corequisite: Take 2 of t PH-212L-01, PH-212L-	•	12-01, PH-212-02,
Politics	I Science		

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

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

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, 0	Credits				
	Section No Instructor	Crs Reg.	Days (M,T,) Tuition	N,TH.F,S,SU) Fee	Time Crs. Fee	Total
ONL	<b>PS-201-01</b> J. HITE	335605	\$504.00	\$52.00	\$0.00	\$556.00

2025/WI

# PS-280 POLITICAL SCIENCE/CWE, 2-6 CREDITS (VAR)

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

# oc PS-280-01 335608

J. HITE	\$756.00	\$78.00	\$45.00	\$879.00V
D. LOUGEE				
Required: Student F	Petition. Core	quisite:	Take the	following
CWE-281-06.		•		Ū

# PS-297 INTRODUCTION TO ENVIRONMENTAL POLITICS, 4 CREDITS

Explores and assesses the politics informing environmental policy; the tension between politics, policy and scientific expertise; the role of the legislative, executive, and judicial branches of government in crafting and implementing environmental policy; and the critical impact non-governmental institutions and pressure groups have on environmental policy development and outcomes.

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

OC HYB LCT PS-297-01	339505 T		1-2:50 PM	
J. HITE	\$504.00	\$52.00	\$0.00	\$556.00

# Psychology

# PSY-101 HUMAN RELATIONS, 3 CREDITS

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

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

OC LCT	PSY-101-01	335611 MW	/	8-9:20 AM	
	E. SAUBER	\$37	8.00 \$39.00	\$0.00	\$417.00
	Online textboo	k provided fi	rst day of clas	SS.	
ONL	PSY-101-02	335617			
	M. MALLATT	\$37	8.00 \$39.00	\$0.00	\$417.00
ONL	PSY-101-03	335618			
	M. MALLATT	\$37	8.00 \$39.00	\$0.00	\$417.00
HAR	PSY-101-15	335619 W		6-8:50 PM	
	J. VELEZ	\$37	8.00 \$39.00	\$0.00	\$417.00

# PSY-201Z INTRODUCTION TO PSYCHOLOGY I, 4 CREDITS

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

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

OC LCT	PSY-201Z-01	335620 TTH		8-9:50	АМ
	J. KISSLER	\$504.00	\$52.00	\$0.00	\$556.00
	Online textboo	ok provided first da	y of clas	s.	
OC LCT	PSY-201Z-02	339431 TTH		10-11:5	50 AM
OC LCT	PSY-201Z-02 J. KISSLER	<b>339431 TTH</b> \$504.00	\$52.00		50 AM \$556.00

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

Course	Listing												2025/WI
Course No	Course Title, C	redits					Course No	Course Title, C	redits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	N,TH.F,S,SU) Fee	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,⊺ Tuition	,W,TH.F,S,SU) Fee	Time Crs. Fee	Total
ONL	<b>PSY-201Z-03</b> S. TOBIN	335623		\$52.00	\$0.00	\$556.00	PSY-280	PSYCHOLOG	iY/CWE,	2-6 CRE	EDITS (VA	.R)	

# **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 335625	5 MW	1-2:50 PM	
	I. MANCINELLI-	\$504.00 \$52.00	\$0.00	\$556.00
	FRANCONI			
	Online textbook provid	ed first day of clas	s.	
ONL LCT	PSY-202Z-02 335629	)		
	I. MANCINELLI-	\$504.00 \$52.00	\$0.00	\$556.00
	FRANCONI			
	Online textbook provid	ed first day of clas	S.	

### **INTRODUCTION TO DEVELOPMENTAL PSYCHOLOGY, 4 PSY-215** CREDITS

Research and theories regarding the development of the individual from conception to death, including physical, social and cognitive changes.

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

# Recommended Prerequisite or Corequisite: FYE-101

OC LCT	PSY-215-01	335630 MW		1-2:50 PM	
	J. KISSLER	\$504.00	\$52.00	\$0.00	\$556.00
	Online textbo	ok provided first da	y of clas	s.	
ONL	PSY-215-02	335633			
	T. THOMAS	\$504.00	\$52.00	\$0.00	\$556.00
ONL	PSY-215-03	335634			
	K. KRASKA	\$504.00	\$52.00	\$43.75	\$599.75
	Online textbo	ok included in sect	ion fees.		
HAR	PSY-215-15	335635 MW		3-4:50 PM	
	J. VELEZ	\$504.00	\$52.00	\$0.00	\$556.00

### **PSY-219 INTRODUCTION TO ABNORMAL PSYCHOLOGY, 4** CREDITS

Introduction to abnormal psychology, including disorders and approaches to treatment.

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

OC LCT	<b>PSY-219-01</b> E. SAUBER	335636 TTH	\$52.00	1-2:50 PM	l \$556.00
			4	+	\$550.00
		ok provided first d	ay or clas	S.	
ONL LCT	PSY-219-02	335639			
	E. SAUBER	\$504.00	\$52.00	\$0.00	\$556.00
	Online textbo	ok provided first d	ay of clas	s.	
ONL	PSY-219-03	339432			
	S. KISER	\$504.00	\$52.00	\$0.00	\$556.00
HAR HYB	PSY-219-15	335640 TH		1-2:50 PM	1
	S. KISER	\$504.00	\$52.00	\$0.00	\$556.00

# PSY-231 INTRODUCTION TO HUMAN SEXUALITY, 4 CREDITS

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

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

OC LCT	PSY-231-01	335641 MW		10-11:	50 AM
	E. SAUBER	\$504.00	\$52.00	\$0.00	\$556.00
	Online textbo	ok provided first da	y of clas	s.	

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

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

00 PSY-280-01 335643 \$756.00 \$78.00 \$45.00 J. KISSLER \$879 00V Required: Student Petition. Corequisite: Take the following CWE-281-06.

# Religion

### R-103 **ASIAN RELIGIONS, 4 CREDITS**

An introduction to the history, ideas, and philosophy of Asian religions including Hinduism, Buddhism, Jainism, Sikhism, Taoism, Confucianism, and Shintoism. Examine Asian religions' impact on contemporary culture. Recommended Prerequisites: WRD-090 or placement in WRD-098

ONL	R-103-01	338064
	J. SHELTON	\$504.00 \$52.00 \$0.00 \$556.00

### HISTORY OF THE OLD TESTAMENT, 4 CREDITS **R-211**

An introduction to the Old Testament/Tanakh that covers the early developments of the Hebrew community: Patriarchs, Abraham, Moses, and Sinai. Examines Old Testament monarchy, prophets, and wisdom literature. Examines modern theories of biblical interpretation.

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

HAR	R-211-15	335648 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

с	R-280-01	335649			
	D. LOUGEE	\$756.00	\$78.00	\$45.00	\$879.00V
	J. SHELTON				
	Required: Stuc CWE-281-06.	dent Petition. Core	equisite:	Take the fo	ollowing

# 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.

### **RENEWABLE ENERGY SYSTEMS, 2 CREDITS RET-200**

This course provides a survey of various renewable energy systems. Participants will learn about the benefits and limitations of each type of energy source as well as their functional principles. Students will participate in several field learning exercises related to energy systems. The intended audiences are technical students wishing to explore the Renewable Energy field and students from the humanities and social sciences wanting a better understanding of this socially important technology.

ос	RET-200-01	335578 M	1-4:50 PM		
	TBA	\$252.00	\$26.00	\$87.50	\$365.50

**RET-215 RENEWABLE ENERGY IV: SYSTEMS DESIGN, 3** CREDITS

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

Course	Listing	
Course No.		Credite

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

This fourth course in the series will concentrate on systems design for renewable energy applications. Students will work together and apply concepts to evaluate, design and select one or more renewable energy systems for solar, wind or micro-hydro installations. Topics will include site surveys, structural elements, electrical generators, energy storage and electrical inversion.

Prerequisites: RET-213

oc	RET-215-01	335579 TTH	3-5:50 PM		
	TBA	\$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 335583 C. CONNORS \$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 <u>bizcenter@clackamas.edu</u> 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: <u>www.oregonsbdc.org/clackamas</u>

# 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-0	SBM-011-	339482	Т		6-7:50 PM	
	01WI					
	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- 05WI	339469 T		6:30 -9:2	20 PM
REM	06WI J. SELBY	\$0.00 <b>339470 T</b>	\$0.00	\$0.00 <b>6:30 -9:2</b>	\$0.00 <b>PM</b>
REM		\$0.00 <b>339471 T</b>	\$0.00	\$0.00 <b>6:30 -9:2</b>	\$0.00 <b>PM</b>
	07WI J. SELBY	\$0.00	\$0.00	\$0.00	\$0.00

Course No Course Title, Credits Section No Crs Reg. Days (M,T,W,TH.F,S,SU) Time Instructor Tuition Fee Crs. Fee Total REM SBM-020-339472 T 6:30 -9:20 PM 08WI J. SELBY \$0.00 \$0.00 \$0.00 \$0.00

2025/W

# SBM-021 SMALL BUSINESS MANAGEMENT I, 0 CREDIT

Part 1 of a multi-year program to help owners and managers of established businesses manage more effectively and achieve success. Course consists of class meetings, individual business counseling, peer networking, and work in/on the business. Class topics emphasize financial analysis, goals, and communication.

REM	SBM-021-	339578 T			6:30 -7	:50 PM
	03WI					
	D. TOURNEY		\$0.00	\$0.00	\$0.00	\$0.00

# SBM-021B 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	HAR SBM-021B- 01WI		ТН		1-3:50 PM	
	R. CAMPBELL	-	\$0.00	\$0.00	\$0.00	\$0.00

# SBM-024B 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-024B- 01WI	339488 TH				
	D. TOURNEY		\$0.00	\$0.00	\$0.00	\$0.00

# SBM-028B SMALL BUSINESS MANAGEMENT I FOR CONSTRUCTION CONTRACTORS, 0 CREDIT

Provides information on starting and growing a successful construction business. Teaches students marketing techniques, estimating methods, tax strategies and recordkeeping. Discusses best practices of working with subcontractors and hiring and managing employees.

ONL	SBM-028B- 01WI D. TOURNEY	339489	\$0.00	\$0.00	\$0.00	\$0.00
REM	SBM-028B- 02WI	339490	TH		6-7:20 PM	
	D TOURNEY		\$0.00	\$0.00	\$0.00	\$0.00

# SBM-029B SMALL BUSINESS MANAGEMENT II FOR CONSTRUCTION CONTRACTORS, 0 CREDIT

Provides information on continuing to grow a successful construction business. Teaches students technology and software options and intermediate marketing techniques and strategies. Discusses construction math and conversions.

REM	SBM-029B-	339491	W		6-7:20 PM	
	01WI					
	D. TOURNEY		\$0.00	\$0.00	\$0.00	\$0.00

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

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

## SBM-030 BUSINESS RECOVERY SMALL BUSINESS MANAGEMENT I, 0 CREDIT

Provides education for assessment of existing business model, diagnosis of the business and a prescriptive action plan to improve the business. Teaches students to research, study and apply content learned in class

REM	SBM-030-		т		6:30 -7:50 PM	Л
	01WI					
	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- 01WI	339479	тн		6:30 -9:20 PM	Λ
REM	J. SELBY XSBM-0003-	339480	\$0.00 <b>TH</b>	\$0.00	\$0.00 6:30 -9:20 PM	\$0.00 <b>/</b>
BEM	02WI J. SELBY XSBM-0003-	339481	\$0.00	\$0.00	\$0.00 6:30 -9:20 PM	\$0.00
	03WI J. SELBY	000401	\$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	AR XSBM-0011- 3	339483	W		6-8:50 PM	
	21WI C. WEESNER		\$0.00	\$0.00	\$0.00	\$0.00
	O. MELONEN		φ0.00	φ0.00	φ0.00	φ0.00

# Social Science

# SSC-160 FAITH & REASON, 4 CREDITS

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

Recommended Prerequisites: WRD-098 or placement in WR-1212							
ONL	SSC-160-01 J. SHELTON	<b>335687</b> \$504.00 \$52.00 \$0.00 \$556.00					
ONL							

# Sociology

# SOC-204 INTRODUCTION TO SOCIOLOGY, 4 CREDITS

This course offers an introduction to the field of sociology. Sociology is the scientific study of human behavior in society. In this course we will introduce and discuss issues including the sociological imagination, culture, socialization, deviance, authority, religion, science and methods of sociological research. Various sociological theories will be introduced and utilized to explore and enhance our understanding of these issues. **Recommended Prerequisites:** WRD-098 or placement in WR-121Z

			P		
OC HYB	SOC-204-01	335651 TH		10-11:50 A	۹M
	E. PFEIFER	\$504.00	\$52.00	\$0.00	\$556.00
OC HYB	SOC-204-02	335654 W		1-2:50 PM	
	E. PFEIFER	\$504.00	\$52.00	\$0.00	\$556.00

Course No	Course Title, Cr	redits				
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	V,TH.F,S,SU) <b>Fee</b>	Time Crs. Fee	Total
ONL LCT	SOC-204-03	339433				
	J. LOVELESS		\$504.00	\$52.00	\$0.00	\$556.00
	Online textboo	k provide	ed first da	y of class	s.	

2025/WI

# 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 нув	SOC-205-01	335656 W		10-11:50 A	M
	E. PFEIFER	\$504.00	\$52.00	\$0.00	\$556.00
OC HYB	SOC-205-02	335659 TH		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	335661
---------	------------	--------

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-210-01 335	664	
	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	335667				
	J. LOVELESS	9	\$504.00	\$52.00	\$0.00	\$556.00

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

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

Corequisites: CWE-281

oc

SOC-280-01	335669		
E. PFEIFER	\$756.00	\$78.00 \$45	5.00 \$879.00V
Required: Stud CWE-281-06.	dent Petition. Core	equisite: Take	e the following

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					C
	Section No Instructor	Crs Reg.	Days (M,T,) Tuition	W,TH.F,S,SU)	Time Crs. Fee	Total	
	instructor		Tultion	ree	CIS. Fee	TOLAI	

# 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 

Recomme	Recommended Prerequisites: WRD-098 or placement in WR-121Z					
OC LCT	STAT-243Z-01 335688	MW		10-11:50 A	M	
	M. PRICE	\$504.00	\$52.00	\$20.00	\$576.00	
OC LCT	STAT-243Z-02 335691	TTH		10-11:50 A	M	
	M. PRICE	\$504.00	\$52.00	\$20.00	\$576.00	
OC HYB LCT	STAT-243Z-03 335692	2 T		1-2:50 PM		
	K. AMREIN	\$504.00	\$52.00	\$20.00	\$576.00	
OC LCT	STAT-243Z-04 338054	MW		1-2:50 PM		
	K. MERCER	\$504.00	\$52.00	\$20.00	\$576.00	
ONL LCT	STAT-243Z-10 335694					
	K. AMREIN	\$504.00	\$52.00	\$20.00	\$576.00	

# Theatre Arts

### FUNDAMENTALS OF TECHNICAL THEATRE, 4 CREDITS TA-112

Second class of a three-part series. Intermediate 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 an independent journal/study (12 total hours) of outside class activity and observations of Technical Theatre applications.

OC LCT	TA-112-01	334744 TTH		1-3:50 PM	
	C. WHITTEN	\$504.00	\$52.00	\$35.00	\$591.00

### **COSTUMING II, 3 CREDITS** TA-122

Second 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** 

OC LCT	TA-122-01	334749 MW	10-12:50 P		50 PM
	A. HEMLOCK	\$378.00	\$39.00	\$0.00	\$417.00

### **ACTING II, 4 CREDITS** TA-142

Further studies the methods, techniques, and theories of acting as an art form. Workshop, discussion, and performance of exercises and monologues/scenes from dramatic literature with written assignments to include response and analysis papers. Intermediate work on vocal, physical, and script analysis skills with special focus on language. Second in a series.

Recommended Prerequisites: TA-141 and WRD-098 or placement in WR-121Z

OC LCT	TA-142-01	334753	MW		10-11:50	AM
	A. MOON		\$504.00	\$52.00	\$35.00	\$591.00
	_ocations:				tion Notifie	cation:
	rmony Community	Campus		Online O		
OC: Oreg	gon City Campus		REM:	Remote	w/ schedul	ed meetings)

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

HYB: In-person plus online work

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

2025/W

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

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

Required: Successful audition/interview

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

OC LCT	TA-153-01	334756 MWF		6-8:50	РМ
	TBA	\$378.00	\$39.00	\$25.00	\$442.00V
	Required: Stu	udent Petition.			

### **STUDENT PERFORMANCE SHOWCASE, 1-3 CREDITS** TA-195 (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	334765 N	WF		12-2:50	PM
	C. WHITTEN	\$	378.00	\$39.00	\$35.00	\$452.00V
	Meets: Improv -2:50pm.	12-12:50p	om, One	-Acts 1-	1:50pm, \$	Stand-Up 2

### **TA-212 TECHNICAL THEATRE STUDY, 4 CREDITS**

Second class of a three part series. Comprehensive study and practice in presentational graphics, scene design, lighting design and chromatics. The full creative process of staging a production will be explored through aesthetic research and design projects. Includes hands-on participation in CCC's main stage productions. 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 activities 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-212-01	334771 TTH		1-3:50 PM	
	C. WHITTEN	\$504.00	\$52.00	\$35.00	\$591.00

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

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

### Required: Successful audition/interview Personmended Prerequisites: TA 152

necomm	enueu Frerequ	isites. TA-155			
OC LCT	TA-253-01	334775 MWF		6-8:50 F	PM
	TBA	\$378.00	\$39.00	\$25.00	\$442.00V
	Required: St	udent Petition.			

### THEATRE/CWE, 2-6 CREDITS (VAR) TA-280

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

OC LCT	TA-280-01	334782	1			
	C. WHITTEN		\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Stue	dent Pet	ition.			

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,) Tuition	W,TH.F,S,SU)	Time Crs. Fee	Total			
	Instructor		Tullion	гее	CIS. Fee	TOTAL			

# 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	334789 MWF	12-2:50 PM		
	C. WHITTEN	\$378.00	\$39.00 \$35.0	0 \$452.00V	
	Meets: Improv -2:50pm.	12-12:50pm, One	e-Acts 1-1:50pm	i, 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.

ос	XATH-0001-01 337972	MWF		3-5:50 PM	
	TBA	\$0.00	\$0.00	\$35.00	\$35.00
XATH- 0002	STAGECRAFT, 0 CRI	EDIT			

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	3 MWF		3-5:50 PM	
	TBA	\$0.00	\$0.00	\$35.00	\$35.00

# Water & Environmental Technology

# WET-020 WASTEWATER OPERATIONS II, 3 CREDITS

For professional upgrade only. Does not meet the requirements for the certificate or degree. Secondary wastewater treatment alternatives with municipal application. Fixed and suspended film systems and clarification process. Includes biological sludge treatment.

Prerequisites: WET-010

oc	WET-020-01	335589	М		6-8:50	PM
	M. LAFORCE		\$378.00	\$39.00	\$15.00	\$432.00
	Remote optior	ns availal	ble with th	nis sectio	n.	

# WET-021 WATERWORKS OPERATIONS II, 3 CREDITS

For professional upgrade only. Does not meet the requirements for the certificate or degree. Basic hydrology, ground water and surface water sources, well construction and operation, introduction to water chemistry, waterworks hydraulics, and fundamentals of pumps and pumping.

OC	WET-021-01	335591 T		6-8:50	РМ
	J. NURMI	\$378.00	\$39.00	\$15.00	\$432.00
	Remote optio	ns available with th	nis sectio	n.	

# WET-108 CROSS-CONNECTION CONTROL PROGRAM SPECIALIST, 3 CREDITS

Specialized training for those who want to be involved in administering cross-connection control programs. Elements of a cross-connection control program, basic hydraulics, state specific regulations, identifying possible cross-connections and site surveys in order to determine proper type of backflow protection, if needed.

oc	WET-108-01	335592 MTWTH		8-4:50	PM
	J. NURMI	\$378.00	\$39.00	\$0.00	\$417.00
	Meets: 3/17-3/	/20.			

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

						-0-0-	
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	То	tal

2025/W

# WET-109 BACKFLOW ASSEMBLY OPERATION AND TESTING, 4 CREDITS

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

oc	WET-109-01	335594 MTWTH	F	8-4:50 PM	N
	M. LAFORCE	\$504.00	\$52.00	\$400.00	\$956.00
	Required: Stud	dent Petition. Mee	ts: 3/17-3	3/21.	

# WET-120 WASTEWATER OPERATIONS II, 3 CREDITS

Secondary wastewater treatment alternatives with municipal application. Fixed and suspended film systems with the associated clarification process will be presented.

# Corequisites: MTH-082C

Prerequisites: WET-110

OC	WET-120-01	335597 M		6-8:50 F	PM
	M. LAFORCE	\$378.00	\$39.00	\$15.00	\$432.00
	Remote option	ns available with th	nis sectio	n.	

# WET-121 WATERWORKS OPERATIONS II, 3 CREDITS

An introduction to water distribution, with a focus on water regulations, operator math, water chemistry, and specific water distribution processes. Also examines distribution system design, water mains, hydrants and valves, water pumps, water system supply security, and public relations. Everything you need to know to pass the water distribution grade 1 state certification.

# Corequisites: MTH-082D

Prerequisites: WET-111

ос	WET-121-01	335598 T		6-8:50 F	РМ
	J. NURMI	\$378.00	\$39.00	\$15.00	\$432.00
	Remote option	is available with th	nis sectio	n.	

# WET-122 WATER DISTRIBUTION AND WASTEWATER COLLECTION SYSTEMS, 3 CREDITS

Elementary engineering aspects of water distribution and wastewater collection systems. System components, construction materials, pump station design, maintenance, operations, and other related topics. **Prerequisites:** WET-110

Corequisites: WET-120

oc	WET-122-01	335599 T		12:30 -	3:20 PM
	M. LAFORCE	\$378.00	\$39.00	\$15.00	\$432.00
	Remote option	ns available with th	nis sectio	n.	

# WET-123 ENVIRONMENTAL CHEMISTRY I, 3 CREDITS

Theory and applied laboratory techniques for testing water and wastewater. Students will test wastewater for NPDES required tests. **Corequisites:** WET-123L

OC LCT	WET-123-01	335601 M		12-1:50	PM
	M. LAFORCE	\$378.00	\$39.00	\$50.00	\$467.00
oc	WET-123-02	335603 W		12-1:50	PM
	M. LAFORCE	\$378.00	\$39.00	\$50.00	\$467.00

# WET-123L ENVIRONMENTAL CHEMISTRY LAB, 0 CREDIT

Lab course for WET-123

Corequisit	(es: WEI-123				
OC LCT	WET-123L-01	335604 M		2-4:50 PM	
	M. LAFORCE	\$0.00	\$0.00	\$28.00	\$28.00
oc	WET-123L-02	335606 W		2-4:50 PM	
	M. LAFORCE	\$0.00	\$0.00	\$28.00	\$28.00

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

# WET-135 HIGH PURITY WATER PRODUCTION II, 4 CREDITS

A lab course focusing on the operation of equipment and unit processes in the production of high purity water. Emphasis on process equipment sizing and design, process control and troubleshooting.

Prerequisites: WET-125 and MTH-082E

REM	WET-135-01	335607 M		1-3:50 PM	
		М		4-6:50 PM	
	G. CARR	\$504.0	0 \$52.00	\$0.00	\$556.00

# WET-180 WATER & ENVIRONMENTAL PROJECTS I, 5 CREDITS

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

# Corequisites: CWE-281

ONL LCT	WET-180-01	335609			
	M. LAFORCE	\$630.0	00 \$65.00	\$45.00	\$740.00
	Required: Stud	dent Petition.			

# WET-280 WATER & ENVIRONMENTAL PROJECTS II, 5 CREDITS

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

# Corequisites: CWE-281

ONL LCT	WET-280-01	335612			
	M. LAFORCE	\$630.00	\$65.00	\$45.00	\$740.00
	Required: Stud	dent Petition.			

# XWET- 1-DAY CROSS CONNECTION SPECIALIST UPDATE, 0.60 C001 CEUS

Update on code information or any changes in the program.

LCT	XWET-C001- 31	335784 F		8-3:50 PM	
	J. NURMI	\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 3/7. Re	gister on www.c	cc-wet.ev	entbrite.com.	

# XWET- 1-DAY TESTER RENEWAL, 0.60 CEUS

C002

oc

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

OC LCT	XWET-C002- 335 11	786 F		8-4:50 PM	
	M. LAFORCE	\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 2/7. Registe	er at https://o	cc-wet.ev	ventbrite.com	<i>I</i> .
oc	XWET-C002- 335	789 F		8-4:50 PM	
	13				
	M. LAFORCE	\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 3/7. Registe	er at https://o	cc-wet.ev	ventbrite.com	/.
XWET-	2-DAY TESTER R	ETRAIN/RE	NEWAL,	1.20 CEUS	

C003

# 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/W

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

ос	XWET-C003- 21	335790 T	ΉF		8-4:50 PM	
	M. LAFORCE	\$0	0.00	\$0.00	\$0.00	\$0.00
	Meets: 1/16 & wet.eventbrite.		ister at h	ttps://cco	C-	
ос	XWET-C003-	335792 T	ΉF		8-4:50 PM	
	22					
	M. LAFORCE	\$0	0.00	\$0.00	\$0.00	\$0.00
	Meets: 2/20-2/	21. Regist	er at http	os://ccc-v	wet.eventbrite.	com/.

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

Presentation of backflow prevention assemblies used for water/wastewater system cross connection control. Class will include overview of hydraulics and degree of hazards, proper backflow installation procedures, and approved testing/troubleshooting procedures. Students will learn to identify common, actual, and potential cross connection hazards; students will be introduced to the basic requirements for carrying out a cross connection program. Students will be able to apply to Oregon Health Authority for Certification by that agency.

ос	XWET-C005- 51		MTWI	THF	8-4:50 I	PM
	M. LAFORCE Meets: 3/17-3/		\$0.00 ster at	\$0.00 https://ccc	+	\$0.00 tbrite.com/.

# Welding Technology

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

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

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

ос	WLD-100-01	335613	W		2-4:50 PM	
	D. PODKOWA		\$378.00	\$39.00	\$219.00	\$636.00
OC	WLD-100-02	335614	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.

OC	WLD-102-01	335615 F		6-9:50 PM	
	A. TOWN	\$252.00	\$26.00	\$146.00	\$424.00

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, Cr	redits				
	Section No Instructor	Crs Reg.	Days (M,T,W Tuition	/,TH.F,S,SU) Fee	Time Crs. Fee	Total
OC	WLD-102-02	335621	S		9-12:50 PI	М
	K. DRURY		\$252.00	\$26.00	\$146.00	\$424.00
oc	WLD-102-03	335622	S		2-5:50 PM	
	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-	335624	S		6-9:50 PM	l
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.

oc	WLD-103-01	335627 F		6-9:50 PM	Л
	TBA	\$252.00	\$26.00	\$146.00	\$424.00
oc	WLD-103-02	335628 SU		10-1:50 F	PM
	TBA	\$252.00	\$26.00	\$146.00	\$424.00

# WLD-110 WELDER CERTIFICATION, 4 CREDITS

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

ос	WLD-110-01 33563	2 MW		8-11:50 AM	Л
	D. PODKOWA		\$52.00	\$432.00	\$988.00
	Required: Student Pe				
oc	WLD-110-02 33563	37 MW		1-4:50 PM	
	D. PODKOWA	\$504.00	\$52.00	\$432.00	\$988.00
	Required: Student Pe	etition.			
oc	WLD-110-03 33563	8 MW		6-9:50 PM	
	M. TIZO	\$504.00	\$52.00	\$432.00	\$988.00
	Required: Student Pe	etition.			
oc	WLD-110-04 33564	2 TTH		8-11:50 AM	Λ
	D. BATES	\$504.00	\$52.00	\$432.00	\$988.00
	Required: Student Pe	etition.			
OC	WLD-110-05 33564	4 TTH		6-9:50 PM	
	B. MULLIGAN	\$504.00	\$52.00	\$432.00	\$988.00
	Required: Student Pe	etition.			
oc	WLD-110-06 33564	6 TTH		1-4:50 PM	
	B. MULLIGAN	\$504.00	\$52.00	\$432.00	\$988.00
	Required: Student Pe			,	

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

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

Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: 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,V Tuition	V,TH.F,S,SU) Fee	Time Crs. Fee	Total
oc	WLD-113-01 J. PHELPS		<b>MTWTH</b> \$1,008.0 0	\$104.00	<b>6-9:50 P</b> I \$584.00	<b>M</b> \$1,696.00

2025/WI

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

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

oc	WLD-113A-01 J. PHELPS	335650	<b>MW</b> \$504.00	\$52.00	<b>6-9:50 PM</b> \$292.00	\$848.00
OC	WLD-113A-02	335652	MTWTH		7:30 -9:20	AM
	R. ABBOTT		\$504.00	\$52.00	\$292.00	\$848.00
oc	WLD-113A-03	335655	MTWTH		1:15 -3:05	PM
	R. ABBOTT		\$504.00	\$52.00	\$292.00	\$848.00
oc	WLD-113A-04	335658	MTWTH		3:30 -5:20	PM
	R. ABBOTT		\$504.00	\$52.00	\$292.00	\$848.00

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

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

# Prerequisites: WLD-113A

oc	WLD-113B-01	335662	ттн		6-9:50 PM	
	J. PHELPS		\$504.00	\$52.00	\$292.00	\$848.00
oc	WLD-113B-02	335663	MTWTH		7:30 -9:20	AM
	R. ABBOTT		\$504.00	\$52.00	\$292.00	\$848.00
oc	WLD-113B-03	335666	MTWTH		1:15 -3:05	PM
	R. ABBOTT		\$504.00	\$52.00	\$292.00	\$848.00
oc	WLD-113B-04	335670	MTWTH		3:30 -5:20	PM
	R. ABBOTT		\$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.

ос	WLD-115-01	335673 MTWTH	8-11:50	АМ
	R. THOMAS	\$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	335675 MW		8-11:50	AM
	R. THOMAS	\$504.00	\$52.00	\$292.00	\$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

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	/,TH.F,S,SU) Fee	Time Crs. Fee	Total	
ос	WLD-115B-01 R. THOMAS	335677		\$52.00	<b>8-11:50 A</b> \$292.00	M \$848.00	

# WLD-150 WELDING PROCESSES, 4 CREDITS

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

OC	WLD-150-01	335681 MW		6-9:50 PI	Ν
	M. TIZO	\$504.00	\$52.00	\$292.00	\$848.00
OC	WLD-150-02	335685 MW		8-11:50 A	AM
	D. PODKOWA	\$504.00	\$52.00	\$292.00	\$848.00

# 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

ос	WLD-200-01	335686	М		2-4:50 PM	
	D. PODKOWA		\$378.00	\$39.00	\$219.00	\$636.00
oc	WLD-200-02	335689	TH		6-8:50 PM	
	M. TIZO		\$378.00	\$39.00	\$219.00	\$636.00

# WLD-203 BLACKSMITHING & TRADITIONAL IRON WORKING II, 2 CREDITS

This course builds on the WLD-103 course and expands on the process of forged metal work. Instruction includes power hammer use, tooling design, traditional joinery, and intermediate projects. Welding experience helpful, but not required.

oc	WLD-203-01	335690 SU	2-5:50 PM		
	TBA	\$252.00	\$26.00	\$146.00	\$424.00

# WLD-210 PIPE WELDING, 4 CREDITS

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

Prereguisites: 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-210-01 335	693 MW		1-4:50 PN	1
	D. PODKOWA	\$504.00	\$52.00	\$292.00	\$848.00
	Required: Student	Petition.			

# 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

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			
00	WLD-212-01	335696	MW		1-4:50 PM				
	D. PODKOWA		\$504.00	\$52.00	\$292.00	\$848.00			
	Required: Student Petition.								

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

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

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

00	WLD-213-01	335699	TTH		6-9:50 PM	
	B. MULLIGAN		\$504.00	\$52.00	\$292.00	\$848.00

# 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

ос	WLD-215-01	335700 TTH	8-11:50 AM		
	D. BATES	\$504.00	\$52.00	\$292.00	\$848.00

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

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

# Prerequisites: WLD-111, WLD-113, or WLD-115

WLD-250-01	335701 TTH		1-4:50 P	М
B. MULLIGAN	\$504.00	\$52.00	\$292.00	\$848.00

### WLD-251 WELDING FABRICATION II INTERMEDIATE PROJECT, 4 CREDITS

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

# Prerequisites: WLD-250

oc

ос	WLD-251-01	335705 TTH	1-4:50 PM			
	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	335707 TTH	1-4:50 PM			
	B. MULLIGAN	\$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

ESPAÑOL: Enseñado en español LCT: Low-Cost Text

2025/WI

ос	WLD-213-01	335699 TTH		6-9:50 PM	
	<b>B. MULLIGAN</b>	\$504.00	\$52.00	\$292.00	\$848.00

Course No	Course Title, Credits					Course No	Course Title, C	redits				
	Section No Instructor	Crs Reg.	Days (M,T,W Tuition	,TH.F,S,SU) <b>Fee</b>	Time Crs. Fee	Total		Section No Instructor	Crs Reg.	Days (M,T,) Tuition	N,TH.F,S,SU) Fee	Time Crs. Fe
WLD-261	WELDING SP	PECIAL F	ROJECT	'S, 1-2 C	REDITS (	VAR)	OC	XWLD-0002- 01	335809	TBA		
	dents to improve approved projec		0		0			B. MULLIGAN Required: Stu		\$0.00	\$0.00	\$280.0
ос	WLD-261-01	335719	•		8-11:50			nequired. Stu				
	R. THOMAS Required: Stu		\$252.00	\$26.00		\$424.00V	XWLD- 0003	AMERICAN V RETAKE TES			Y CERT	IFICAT
oc	WLD-261-02 D. PODKOWA Required: Stu	4	\$252.00	\$26.00	<b>1-4:50 P</b> \$146.00	<b>M</b> \$424.00V		tification on rete udents enrolled tition.				
oc	WLD-261-03 J. PHELPS	335728	<b>M</b> \$252.00	\$26.00	<b>6-9:50 P</b> \$146.00	<b>M</b> \$424.00V	oc	XWLD-0003- 01	335812	ТВА		
ос	Required: Stu WLD-261-04 J. PHELPS		т	\$26.00	<b>6-9:50 P</b> \$146.00	<b>M</b> \$424.00V		B. MULLIGAN Required: Stu		\$0.00 tion.	\$0.00	\$25.00
	Required: Stu	dent Peti		+		•	Womer	n's Studies				
ос	WLD-261-05				8-11:50	АМ	Wollie					
	R. THOMAS Required: Stu	dont Poti		\$26.00	\$146.00	\$424.00V	WS-101	INTRODUCTI	он то и	VOMEN'S	STUDIE	ES, 4 C
ос	WLD-261-06				1-4:50 P	м	Examines t	he history of th	e represe	entation o	f women.	, the his
	D. PODKOWA			\$26.00		\$424.00V		nd the develop				
	Required: Stu		•	<b>\$</b> _0.00	<b>\$0</b> .000	¢		Critically explore				
ос	WLD-261-07	335735	W		6-9:50 P	Μ		ender-expression				uction,
	J. PHELPS		•	\$26.00	\$146.00	\$424.00V		status and the e				
	Required: Stu							nded Prerequis			rplacem	
OC	WLD-261-08 J. PHELPS	335736		¢06.00	6-9:50 P		OC HYB LCT	WS-101-01	335817		¢50.00	10-11
	Required: Stu	dent Peti	•	\$20.00	\$146.00	\$424.00V		K. SEVERSON Online textboo		\$504.00		
ос	WLD-261-09	335737			6-9:50 P	м	ONL LCT	WS-101-02	335819	eu ilist ua	ly of clas	5.
	M. TIZO			\$26.00		\$424.00V		T. BOYLE-		\$504.00	\$52.00	\$0.00
	Required: Stu	dent Peti	tion.					GALESTIANT			+	+
oc	WLD-261-10	335738			9-12:50			No textbook re	equired.			
	K. DRURY			\$26.00		\$424.00V	المراجعا ا					
oc	WLD-261-11	339466		¢06.00	2-5:50 P		vvoria L	.anguages	5			
ос	K. DRURY WLD-261-12	335739	•	φ∠0.00	\$146.00 <b>10-1:50</b>	\$424.00V PM						
	TBA	333739		\$26.00		\$424.00V	ASL-101	FIRST-YEAR	AMERIC	AN SIGN	LANGU	JAGE I,
	Required: Stu	dent Peti	•	, <b>.</b>		,		of a three-term i				
ос	WLD-261-13	335740	SU		2-5:50 P	М		erpiece of each				
	ТВА			\$26.00	\$146.00	\$424.00V		about ourselve in context, with				
	Required: Stu							skills. Strategie				
oc	WLD-261-15	335741		<b>*••••</b>	8-11:50		conversatio		- 2.0 010			
00	R. THOMAS	005740	•	\$26.00		\$424.00V	Recommer	nded Prerequis	sites: WF	RD-098 oi	r placem	ent in V
OC	WLD-261-16 R. THOMAS	335743		\$26.00	8-11:50 /	<b>AM</b> \$424.00V	oc	ASL-101-01	335020		1	1-2:50
			φ252.00	φ20.0U	φ140.00	φ <del>4</del> 24.00V	00	A FLUS			\$52.00	

### 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.

### ос XWLD-0001- 335807 TBA 01 **B. MULLIGAN** \$0.00 \$0.00 \$140.00 \$140.00 Required: Student 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.

# . Fee Total 30.00 \$280.00

# ATION

ce with AWS equired:

oc	XWLD-0003- 3358 01	812 TBA			
	B. MULLIGAN Required: Student I	\$0.00 Petition.	\$0.00	\$25.00	\$25.00

# 4 CREDITS

history of US academic nen's lives, on, sexuality,

# n WR-121Z

OC HYB LCT	WS-101-01	335817	М		10-11:50	АМ
	K. SEVERSO	N	\$504.00	\$52.00	\$0.00	\$556.00
	Online textboo	ok provid	ed first da	y of clas	s.	
ONL LCT	WS-101-02	335819	)			
	T. BOYLE-		\$504.00	\$52.00	\$0.00	\$556.00
	GALESTIANT	_				
	No textbook re	equired.				

# E I, 4 CREDITS

ommunication sharing nar is estion and dent maintain a

n WR-121Z

ос	ASL-101-01	335020 MW	1-2:50 PM	Λ
	A. ELLIS	\$504.00	\$52.00 \$10.00	\$566.00
	One-time text	book purchase for	ASL-101 - ASL-102	2.
ONL	ASL-101-02	335025		
	A. ELLIS	\$504.00	\$52.00 \$10.00	\$566.00
	One-time text	book purchase for	ASL-101 - ASL-102	2.

# 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	335026 MW		10-11:50 A	M
	A. ELLIS	\$504.00	\$52.00	\$10.00	\$566.00
	One-time text	book purchase for	ASL-101	- ASL-102.	

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

2025/W

Course No	Course Title, Credits							
	Section No Instructor	Crs Reg.	Days (M,T,V Tuition	/,TH.F,S,SU) Fee	Time Crs. Fee	Total		
ONL	ASL-102-02	335031						
	A. ELLIS		\$504.00	\$52.00	\$10.00	\$566.00		
	One-time text	book pur	chase for	ASL-101	& ASL-102			

# ASL-202 SECOND-YEAR AMERICAN SIGN LANGUAGE II, 4 CREDITS

Continuation of ASL-201. Emphasizes active communication in sign language. Increased emphasis on exploring, analyzing the rules, and presenting stories and literature in sign language.

Prerequisites: ASL-201 with a C or better

REM	ASL-202-01	335033 TTH	10-11:50	AM (
	A. ELLIS	\$504.00	\$52.00 \$10.00	\$566.00
	One-time text	book purchase for	ASL-202 - ASL-20	3.

# FR-102 FIRST-YEAR FRENCH II, 4 CREDITS

Second 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-101

OC LCT	FR-102-01	102-01 335288 TTH			10-11:5	0 AM
	E. HERNAND	EZ	\$504.00	\$52.00	\$10.00	\$566.00
	All materials provided first day of			f class.		

# GER-102 FIRST-YEAR GERMAN II, 4 CREDITS

Second 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-101 or Student Petition

OC LCT	GER-102-01	335366	MW		1-2:50 PM	
	T. NIKOLOPO	ULOS	\$504.00	\$52.00	\$10.00	\$566.00
	All materials p	rovided	first day o	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

OC LCT	SPN-101-01	335671 TTH		1-2:50 PM	
	E. RONICK	\$504.00	\$52.00	\$10.00	\$566.00
	All materials p	provided first day o	f class.		
ONL LCT	SPN-101-02	338065			
	V. SHORT	\$504.00	\$52.00	\$10.00	\$566.00
	All materials p	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.

# Prerequisites: SPN-101

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

	20/	2:5/

Course No	Course Title, Cred	its				
	Section No Cr Instructor	s Reg.	Days (M,T,V Tuition	/,TH.F,S,SU) <b>Fee</b>	Time Crs. Fee	Total
OC LCT	SPN-102-01 33	85674	ттн		10-11:50 A	M
	A. METHADZOVI	C	\$504.00	\$52.00	\$10.00	\$566.00
	All materials prov	ided fi	rst day of	class.		
ONL LCT	SPN-102-02 33	85676				
	E. HERNANDEZ	:	\$504.00	\$52.00	\$10.00	\$566.00
	All materials prov	ided fi	rst day of	class.		
ONL LCT	SPN-102-03 33	35678				
	V. SHORT	:	\$504.00	\$52.00	\$10.00	\$566.00
	All materials prov	ided fi	rst day of	class.		

# SPN-202 SECOND-YEAR SPANISH II, 4 CREDITS

Second 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-201

ONL LCT	SPN-202-01	335684			
	V. SHORT	\$504.00	\$52.00	\$10.00	\$566.00
	All materials	provided first day o	f 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	335698	т		1-2:50 PM	
	C. ZIMMERLY	-BECK	\$504.00	\$52.00	\$19.00	\$575.00
ONL LCT	WR-101-02	335702				
	P. CRUMRINE		\$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	335704	MW		10-11:50 A	M
	J. BRYANT-TF	RERISE	\$504.00	\$52.00	\$19.00	\$575.00
OC LCT	WR-121Z-02	335706	MW		10-11:50 A	М
	C. BURNELL		\$504.00	\$52.00	\$19.00	\$575.00
OC LCT	WR-121Z-03	335708	MW		1-2:50 PM	
	C. BURNELL		\$504.00	\$52.00	\$19.00	\$575.00
OC LCT	WR-121Z-04	335709	TTH		10-11:50 A	M
	R. DAVIS		\$504.00		\$19.00	
OC LCT	WR-121Z-05	335710	TTH		1-2:50 PM	
	R. DAVIS				\$19.00	
OC HYB LCT	WR-121Z-06	335711	М		10-11:50 A	М
	R. MURPHY		\$504.00	\$52.00	\$19.00	\$575.00
OC HYB LCT	WR-121Z-07	335712	М		10-11:50 A	М
	M. SCHUMAC	HER	\$504.00	\$52.00	\$19.00	\$575.00
OC HYB LCT	WR-121Z-08	335713	т		10-11:50 A	М
	T. DONNELLY					\$575.00
OC HYB LCT	WR-121Z-09	335714	т		1-2:50 PM	
	S. NIZIOLEK		\$504.00	\$52.00	\$19.00	\$575.00
OC HYB LCT	WR-121Z-10	335715	W		1-2:50 PM	
	W. DAWKINS		\$504.00	\$52.00	\$19.00	\$575.00
ONL LCT	WR-121Z-11	335716				

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, Cre	edits				
	Section No Instructor	Crs Reg.	Days (M,T,W Tuition	/,TH.F,S,SU) Fee	Time Crs. Fee	Total
ONL LCT	WR-121Z-12	335717	,			
	R. DAVIS		\$504.00	\$52.00	\$19.00	\$575.00
ONL LCT	WR-121Z-13	335718				
	T. DODGE		\$504.00	\$52.00	\$19.00	\$575.00
ONL LCT	WR-121Z-14	335720				
	T. DODGE		+	\$52.00		\$575.00
HAR	WR-121Z-15	339556			1-2:50 PM	
	J. PONS		•	\$52.00	•	\$575.00
HAR HYB	WR-121Z-16	339557			6-7:50 PM	
	M. SCHUMAC		\$504.00	\$52.00	\$19.00	\$575.00
ONL LCT	WR-121Z-17	335721				
	T. DODGE		•	\$52.00	\$19.00	\$575.00
ONL LCT	WR-121Z-18	335722		<b>*</b> - <b>•</b> ••	<b>*</b> • • • • •	<b>* *</b> *
	A. WARREN	~~==~		\$52.00	\$19.00	\$575.00
ONL LCT	WR-121Z-19	335723		<b>\$50.00</b>	<b>\$10.00</b>	<b>AF75 00</b>
0111 1 07	M. WARREN			\$52.00	\$19.00	\$575.00
ONL LCT	WR-121Z-20	335724		<b>\$50.00</b>	¢10.00	
0.11	N. ROSEVEAF	-		\$52.00	\$19.00	\$575.00
ONL	WR-121Z-21	339558		¢50.00	¢10.00	¢575.00
	N. ROSEVEAF	1	\$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	335734	MW		10-11:50 A	M
	J. DAVIS		\$504.00	\$52.00	\$19.00	\$575.00
OC LCT	WR-122Z-02	335742	TTH		10-11:50 A	M
	J. BRYANT-TF	RERISE	\$504.00	\$52.00	\$19.00	\$575.00
OC LCT	WR-122Z-03	335745	TTH		3-4:50 PM	
	J. BRYANT-TF	RERISE	\$504.00	\$52.00	\$19.00	\$575.00
OC HYB LCT	WR-122Z-04	335747	М		1-2:50 PM	
	R. MURPHY		\$504.00	\$52.00	\$19.00	\$575.00
OC HYB LCT	WR-122Z-05	335749	т		10-11:50 A	M
	C. ZIMMERLY					\$575.00
OC HYB LCT	WR-122Z-06	335750	т		3-4:50 PM	
	S. NIZIOLEK		\$504.00	\$52.00	\$19.00	\$575.00
ONL LCT	WR-122Z-07	335751				
	P. CRUMRINE		\$504.00	\$52.00	\$19.00	\$575.00
ONL LCT	WR-122Z-08	335753				
	S. WARREN		\$504.00	\$52.00	\$19.00	\$575.00
ONL LCT	WR-122Z-09	335754				
	E. WILDER-TA	ACK	\$504.00	\$52.00	\$19.00	\$575.00
ONL LCT	WR-122Z-10	335756				
	A. WICKERT		\$504.00	\$52.00	\$19.00	\$575.00
HAR HYB	WR-122Z-15		М		6-7:50 PM	
	TBA		\$504.00	\$52.00	\$19.00	\$575.00

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

2025/W

Course No	Course Title, Cr	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 «lluvia de ideas» para generar ideas hasta cómo corregir e editar un escrito. A la vez, se desarrollarán respuestas originales-en forma escrita-a reseñas y reportajes sobre temas controversiales y a los ensayos académicos difíciles. La clase enfatizará la alfabetización de la información, así como: cómo encontrar y evaluar materiales, recursos relevantes y obras originales; cómo integrarlos en una redacción académica y cómo citarlos.

**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 335760 ESPAÑOL

A. DEFREESE	\$504.00	\$52.00	\$19.00	\$575.00

# WR-127 SCHOLARSHIP ESSAY WRITING, 1 CREDIT

Introduces scholarship resources and the application process. Examines and applies the concept of 'telling the story of me,' and drafting, revising, and editing a complete scholarship application essay.

ONL LCT	WR-127-01	335761				
	J. DAVIS	\$	126.00	\$13.00	\$19.00	\$158.00
	Meets: 1/20-2	/28.				

# 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

NL LCT	WR-128-01 3357	764			
	S. PESZNECKER	\$0.00	\$0.00	\$19.00	\$19.00

# WR-227Z TECHNICAL WRITING, 4 CREDITS

ON

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	335766	TTH		1-2:50 PM	
	L. ORMANDY		\$504.00	\$52.00	\$19.00	\$575.00
OC HYB LCT	WR-227Z-02	335771	М		3-4:50 PM	
	S. WARREN		\$504.00	\$52.00	\$19.00	\$575.00
ONL LCT	WR-227Z-03	335773				
	R. DAVIS		\$504.00	\$52.00	\$19.00	\$575.00
ONL LCT	WR-227Z-04	335774				
	J. MCALPINE		\$504.00	\$52.00	\$19.00	\$575.00
ONL LCT	WR-227Z-05	335775				
	R. DAVIS		\$504.00	\$52.00	\$19.00	\$575.00
HAR HYB	WR-227Z-15	339553	W		6-7:50 PM	
	L. ORMANDY		\$504.00	\$52.00	\$19.00	\$575.00

WR-241 FICTION WRITING I, 4 CREDITS

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

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 theory, art and creative practice of fiction writing, with specific emphasis on short prose forms.

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

OC HYB LCT WR-241-01	335778 T		1-2:50 F	PM
N. ROSEVEAF	R \$504.00	\$52.00	\$19.00	\$575.00

# WR-242 POETRY WRITING I, 4 CREDITS

Provides the basic skills for writing and revising poems following contemporary trends in form and content; provides a supportive environment and the critical abilities to read and discuss poems confidently.

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

OC LCT	WR-242-01	335781 MW	1-2:50 PM		l
	A. COFFEY	\$504.00	\$52.00	\$19.00	\$575.00

# WR-246 EDITING & PUBLISHING, 4 CREDITS

This course is for students with an interest in creative writing and/or literary journal design, layout, and publication who wish to develop editing and publishing skills. Students work collaboratively as editors to contribute to the production of a literary journal. May be repeated for up to 8 credits.

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

REM LCT	WR-246-01	335785 TTH	TTH 10-11:50 AM		0 AM
	M. WARREN	\$504.00	\$52.00	\$60.00	\$616.00

# 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	335791 MW		10-11:50	AM
	W. DAWKINS	\$504.00	\$52.00	\$19.00	\$575.00
OC LCT	WRD-090-02	335795 TTH		10-11:50	AM
	A. WARREN	\$504.00	\$52.00	\$19.00	\$575.00

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

Preparation for writing in college-level courses. Students discuss a variety of early-college-level readings, and develop and refine their own essays (up to three pages) through a process of revision and multiple drafts. Other topics include becoming a confident reader, finding and using information, and giving credit to sources through informal citations. **Prerequisites:** WRD-090 or placement in WRD-098

OC LCT	WRD-098-01	335797 TTH		10-11:50	AM
	J. DAVIS	\$504.00	\$52.00	\$19.00	\$575.00
OC LCT	WRD-098-02	335802 MW		1-2:50 PM	l
	J. DAVIS	\$504.00	\$52.00	\$19.00	\$575.00
ONL LCT	WRD-098-03	335805			
	M. WARREN	\$504.00	\$52.00	\$19.00	\$575.00
ONL LCT	WRD-098-04	335808			
	A. WARREN	\$504.00	\$52.00	\$19.00	\$575.00
ONL LCT	WRD-098-05	335811			
	M. WARREN	\$504.00	\$52.00	\$19.00	\$575.00
HAR	WRD-098-15	339554 MW		10-11:50	AM
	J. PONS	\$504.00	\$52.00	\$19.00	\$575.00

# XWR-0001 CHRYSALIS WOMEN WRITERS, 0 CREDIT

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

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

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

OC HYB LCT XWR-0001-01	335826 W		12-1:50	PM
P. LICHEN	\$0.00	\$0.00	\$0.00	\$0.00

# Zoology

# Z-202 GENERAL ZOOLOGY, 4 CREDITS

A lab course covering the maintenance of the cellular, tissue, & organ levels of invertebrates, evolution of animal systems and the diversity of the invertebrate animal phyla.

Prerequisites: MTH-095 with a C or better or placement in MTH-111Z Coreauisites: Z-202L

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

ос	Z-202-01	335816 MW	V 1		10:30 -11:50 AM	
	J. BOWN	\$504.00	\$52.00	\$55.00	\$611.00	

# Z-202L GENERAL ZOOLOGY LAB, 0 CREDIT

Lab course for Z-202

Corequisites: Z-202
---------------------

oc .	Z-202L-01	335818 W		1-3:50 PM	
	J. BOWN	\$0.00	\$0.00	\$0.00	\$0.00

# Our community partners provide programming for all ages!



Have you wanted to learn more about yoga or get a few extra dance steps in your day? Perhaps you are thinking about writing your memoir or learning more about parenting or computers. You may simply be wondering what family, youth or adult activities and services are available to you locally. Clackamas **Community College Community** Education partners with many local programs to bring a wide variety of class offerings at a location near you. Please see our partner websites for more information on course offerings and registration.

# 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.

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

# 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

# **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

Jan. 1 New Years Day, Jan. 20 MLK Jr. Day, Feb. 17 Presidents 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** Jan. 6-Mar. 22 M-F 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/

# Library

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 - Mar. 21, 2025

# PAULING CENTER

# Workforce Development Services M-F 8 a.m.-5 p.m.

Jan. 6-Mar. 22

# **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

# 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-person appointments available, contact counseling@clackamas.edu or call 503-594-3176. Office Hours M-Th 9 a.m.-4 p.m. Remote working hours M-F 8 a.m.-5 p.m.

# **Disability Resource Center**

Office Hours M-Th 9 a.m.-4 p.m. Remote working hours M-F 8 a.m.-5 p.m.

**Enrollment Services & Graduation Services** Office Hours M-Th 9 a.m.-4 p.m. Remote working hours M-F 8 a.m.-5 p.m.

**Financial Aid Resource Lab** Available M-Th Drop-In Zoom hours: MW

11 a.m.-2 p.m. **Financial Aid & Scholarships** Office Hours M-Th 9 a.m.-4 p.m.

8 a.m.-5 p.m. Remote working hours M-F

10 a.m.-1 p.m. or by appt.

# Student Life & Leadership

M-Th Office Hours 9 a.m.-4 p.m. Remote working hours M-F 8 a.m.-5 p.m.

# **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.

# Winter term dates to remember:

Textbook sales begin online and in-store – Dec. 16, 2024 Last day for textbook refunds – Jan. 10, 2025 without drop; Jan. 31 with proof of drop Rental books due back – March 21, 2025

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.

	ADVISOR	PHONE	ROOM	EMAIL
Accounting	Joan San-Claire	. 503-594-3013		joan.san-claire@clackamas.edu
Administrative Assistant/Professional	Beverly Forney	. 503-594-3115		beverlyf@clackamas.edu
Adult High School Diploma	Lisa Nielson	. 503-594-3401	D144	lisan@clackamas.edu
Anthropology	Keely Baca	. 503-594-3409	M223	keely.baca@clackamas.edu
Apprenticeship	Katelyn Karch	. 503-594-6201		kkarch@clackamas.edu
Arboriculture	April Chastain	. 503-594-3055	C124	april.chastain@clackamas.edu
Art	Nora Brodnicki	. 503-594-3036	AC106	norab@clackamas.edu
Automotive	Dustin Bates	. 503-594-3973	B259	dustinb@clackamas.edu
Business Administration	Sharon Parker	. 503-594-3075	S123	sharonp@clackamas.edu
Career Technical Education Licensure Prep	Megan Helzerman	. 503-594-0976	F108c	meganh@clackamas.edu
Clinical Lab Assistant/Phlebotomy	Marilyn Braught	. 503-594-0634	H350	marilyn.braught@clackamas.edu
Communications/Speech	Kerrie Hughes	. 503-594-3155	N137	kerrieh@clackamas.edu
Computer Science: Transfer	Rich Albers	. 503-594-3166	\$126	richa@clackamas.edu
Computer Science: Application Support & Web Design .	Debra Carino	. 503-594-31/0	\$125	dcarino@clackamas.edu
Computer Science: Network Administration		. 503-594-3167		rcarino@clackamas.edu
Computer Science: Transfer	Jen Miller	. 503-594-3138		jen.miller@clackamas.edu
Criminal Justice/Corrections		. 503-594-6229	HVV315	joanna.crawford@clackamas.edu
Customized Training & Development Services	Staπ	. 503-594-3200		training@clackamas.edu
Dental Assistant	Kari Hiatt	. 503-594-06/4	H385	Kari.niatt@clackamas.edu
Digital Media Communications		. 503-594-3030	AC106	norab@clackamas.edu
Early Childhood Education		. 505-574-0150		
Economics	Derek Lougee	. 503-594-3408	IVIZI3	derek.lougee@clackamas.edu
Education	Ada Echavarria	503-574-584U	E112	ada echevarria@clackamas.edu
Electronics and Microelectronics	Mike Matteon	503-374-1020 503-59/ 2222	⊢⊥⊥∠  217	matteonm@clackamas.edu
Emergency Medical Technology	Tana Sawzak	503-574-5322 503-59/ 4025	∠ I/I H382	tanas@clackamas.odu
Engineering	Fric Lee	503-594-6023	D 1212	
Engineering	Matt LaForce	503-594-3148	D 1210	laforce@clackamas.edu
English	Amanda Coffey	503-594-3257	RR2/12	amandac@clackamas.edu
English for Speakers of Other Languages		503 594-3718	D146	laurai@clackamas.edu
Environmental Safety and Health	Mike Mattson	503-594-3322	1217	mattsonm@clackamas.edu
Fire Science	Iordan Gulley	503-594-3683	C141	wildlandfire@clackamas.edu
GED/ABE	Lisa Nielson	503-594-3401	D144	lisan@clackamas.edu
Geography	Derek Lougee	503-594-3408	M213	derek lougee@clackamas.edu
Gerontology	Yvonne Smith	. 503-594-3207	HW315	vvonnes@clackamas.edu
GIS	Angela Armen	. 503-594-3678	M223	. angela.armen@clackamas.edu
History	Jackie Flowers.	. 503-594-3405	M217	. jackief@clackamas.edu
Horticulture	April Chastain	. 503-594-3055		april.chastain@clackamas.edu
Human Resource Management.	Michael Moiso	. 503-594-3770		mmoiso@clackamas.edu
Human Services	Yvonne Smith	. 503-594-3207	F119	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	April Chastain	. 503-594-3055	C124	april.chastain@clackamas.edu
Management	Sharon Parker	. 503-594-3075	S123	sharonp@clackamas.edu
Marketing	Beverly Forney	. 503-594-3115	S129	beverlyf@clackamas.edu
Math	Kelly Mercer	. 503-594-6154	S102	kelly.mercer@clackamas.edu
Medical Assistant.	Sarah Parker	. 503-594-6497	H381	sarah.parker@clackamas.edu
Music	Lars Campbell	. 503-594-3384	N131	lars.campbell@clackamas.edu
Music Technology	David Badstubner	. 503-594-6368	N131	david.badstubner@clackamas.edu
Nursing				
Organic Farming	April Chastain	. 503-594-3055	C124	april.chastain@clackamas.edu
Philosophy	Derek Lougee	. 503-594-3408	M213	derek.lougee@clackamas.edu
Physical Education/Health	Jim Martineau	. 503-594-3271	R101c	jmartineau@clackamas.edu
Political Science	Derek Lougee	. 503-594-3408	M213	derek.lougee@clackamas.edu
Pre-Professional (medical, dental, pharmacy)	Eden Francis	. 503-594-3352	P124k	edenf@clackamas.edu
Project Management	Frank Corona	. 503-594-6498	\$130	trancisco.corona@clackamas.edu
Psychology	Jessica Kissler	. 503-594-6625	M210	jessica.kissler@clackamas.edu
Religion	Derek Lougee	. 503-594-3408	M213	derek.lougee@clackamas.edu
Reading/Study Skills	Lisa Nielson	. 503-594-3401		lisan@clackamas.edu
Renewable Energy	Mike Mattson	. 503-594-3322		mattsonm@clackamas.edu
Retail Management	Beverly Forney	. 503-594-3115		beverlyt@clackamas.edu
Science	Kelly Mercer	. 503-594-6154		kelly.mercer@clackamas.edu
Search and Rescue				
Skills Development		. 303-374-3401		iisan@ciackamas.edu
Small Business Development Center				
		. 5U3-574-34U8	IVI∠IJ	derek.lougee@clackamas.edu
	Chris Whitter	. 303-374-380Z	IVIZZ5	ericnp@clackamas.edu
Theatre Arts.	Chris Whitten	. 503-574-3153	IN152	cwnitten@ciackamas.edu
Indecided Major of Study	Student Support Services .	. 503-574-34/5		advising@clackamas.edu
	ADDOLD Armon	. 303-574-36/8		
Uncrewed Aircraft Systems			D 1010	
Uncrewed Aircraft Systems	Matt LaForce	. 503-594-3148		laforce@clackamas.edu
Undecided Major of Study Uncrewed Aircraft Systems Water & Environmental Technology Water & Environmental Technology	Matt LaForce	. 503-594-3148 . 503-594-3813		jamesn@clackamas.edu
Uncrewed Aircraft Systems	Matt LaForce Jim Nurmi Dustin Bates	. 503-594-3148 . 503-594-3813 . 503-594-3973		jamesn@clackamas.edu dustinb@clackamas.edu

94 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	503-594-3027
D	Adult High School Diploma – Oregon City	
Aca	demic Advising	
WC	Oregon City	
Н	Harmony	
W	Wilsonville	503-594-0959
Boo	kstore	
М	Bookstore – Oregon City	503-594-6500
Test	ing/Assessment Center	
WC	Öregon City	
Н	Harmony	503-594-0636
W	Wilsonville	503-594-0940
В	Account Receivable	
WC	Admissions & Recruitment/Welcome Center	503-594-3284
WC	Advanced College Credit	
Т	Apprenticeship	
Ċ	Arboriculture	
AC	Art	
WC	Associated Student Government	
R	Athletics	
В	Automotive	
S	Business	
HW	Business Development Center	
В	Business Office	
WC	Cafeteria	
WC	Campus Tours	
WC	Career Center	
1	Career Technical Education.	
F	Child Care Center	
1	Child Care Info & Referral	
Р	The Clackamas Print Newspaper	
M	College Safety Office	
N	Communication Studies	
H	Communication Studies	
	Community Garden.	503-574-5040
D S	Computer Lab (Academic) Computer Lab (Open)	503-574-0052
S		
S WC	Computer Science Cooperative Work Experience	
D	Cooperative work Experience	
D WC		
	Counseling Criminal Justice/Corrections	502 504 2202
HW P	Customized Training & Development	
AC	Digital Media Communications.	
WC	Disability Resource Center	
F	Education and Early Childhood Education	
 -	Electronics & Microelectronics	
Т	Emergency Management	
DJ	Engineering	
* Find	building code key on the campus map on the back cover	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	
B	Environmental Safety & Health	
G	Events & Conference Services - Oregon City	
H	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	
Н	Health Sciences.	
п WC	High School Connections	
С	Horticulture	
В	Human Resources/Employment Opportunity	
F	Human Services.	
I	Industrial Technology	
В	Instructional Media Services	
С	Landscape	
D	Learning Center	
D	Library - Circulation	
D	Library - Reference	
WC	Life & Career Options	
S	Math	. 503-594-3395
D	Moodle Help	. 503-594-6632
Ν	Music	. 503-594-3337
Н	Nursing	
WC	Office of Education Partnerships	. 503-594-3161
С	Organic Farming	
S	Online Learning & Educational Technology	
Р	Pauling Center Gallery	
R	Physical Education	
RR	President's Office	
WC	Registration and Records	
1	Renewable Energy Technology	
DJ	Science	
D	Skills Development	
M	Social Science	
WC	Student Life & Leadership.	
WC	Student Support Services	
N	Theater/Performing Arts	
D	Tutoring Services.	
WC	Veterans Educational Benefits.	
WC	Veterans Education & Training Center	
RR	Vice President, College Services.	
RR	Vice President, Instructional & Student Services.	
DJ	Water & Environmental Technology	
Т	Welding	
Т	Wildland Fire	
W	Wilsonville Registration/Information	
Р	Workforce Development Services	
Μ	World Languages	
D	Writing Center.	

\* 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.





# 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.



### Clackamas Town Center Clackamas Johnson City Gladstone Clackamas Johnson City Clackamas Domison City Dom

#ClackCo CONNECTS CCC Xpress

Southbound											
Α	Clackamas Town Center	5:55	7:15	8:35	9:55	11:55	1:15	2:35	3:55	5:55	7:15
В	CCC Harmony Campus	6:05	7:25	8:45	10:05	12:05	1:25	2:45	4:05	6:05	7:25
с	Oregon City Transit Center	6:25	7:45	9:05	10:25	12:25	1:45	3:05	4:25	6:25	7:45
D	Clairmont Dr. CCC Campus	6:40	8:00	9:20	10:40	12:40	2:00	3:20	4:40	6:40	8:00
Northbound											
E	CCC Oregon City Campus	6:45	8:05	9:25	10:45	12:45	2:05	3:25	4:45	6:45	8:05
В	CCC Harmony Campus	7:00	8:20	9:40	11:00	1:00	2:20	3:40	5:00	7:00	8:20
Α	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

# CLACKAMAS FREE CLINIC

# **VOLUNTEERS IN MEDICINE**

**Clackamas Volunteers in Medicine** is located in **Clairmont Hall** and offers free health care services.

# **SERVICES OFFERED** -

- Primary Care
- Optometry
- Diabetes Management and Education
- Asthma and C.O.P.D.
- Lab Services
- Specialty Referrals
- Screenings and Education

HOURS: Mon - Thur, 10 a.m. - 5 p.m. PHONE: (503) 722-4400





# WE WELCOME ALL AT CCC!

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 College



# **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

**CCC** Wilsonville Campus 29353 SW Town Center Loop E Wilsonville, OR 97070