



Schedule



Fall 2024

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

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3 Convenient Campuses

Oregon City

19600 Molalla Ave.
Oregon City, OR 97045

Wilsonville

29353 SW Town Center Loop E.
Wilsonville, OR 97070

Harmony

7738 SE Harmony Road
Milwaukie, OR 97222

Non-Discrimination

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



IMPORTANT DATES TO REMEMBER

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

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

HOLIDAYS AND CAMPUS CLOSURES

FALL TERM: Nov. 11 Veterans Day, Nov. 28 & 29 Thanksgiving, Dec. 24 & 25 Winter Holiday
WINTER TERM: Jan. 1 New Years Day, Jan. 20 MLK Jr Day, Feb. 17 Presidents Day
SPRING TERM: May 26 Memorial Day

FINAL EXAM SCHEDULE

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



GETTING STARTED AT CCC

New Students

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

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

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

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

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

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

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



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



Returning Students

Returning CCC student? Start here.

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

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

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

3 REVIEW YOUR EDUCATION PLAN with an academic advisor.

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

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

How much will I owe? Tuition and Fees

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



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

Credit for prior learning

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

How do I pay?

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

Deferred Payment: Account balances must be paid by Nov. 8 or you will be charged a non-payment fee of \$100 and a hold will be put on your account that will prevent future registration.

How do I get a refund?

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

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

Financial Aid: How do I apply?

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

Financial Aid questions?
Email us at finaid@clackamas.edu



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

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

College Services Fee

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

Refunds

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

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

myClackamas

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

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

If you applied for admission and:

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

If you are a current CCC student and:

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

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

Registration

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

Registration times:

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

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

2024-25 CHANGES:

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

Don't forget!

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

REGISTRATION AND IMPORTANT INFORMATION

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

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

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

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

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

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

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

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



GRADUATION

Apply to Graduate

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

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

Graduation Ceremonies

The GED/Adult High School Diploma graduation ceremony will take place Friday, June 13, 2025, and the certificate and degree graduation ceremony will be held Friday evening, June 13, 2025.

Information for both ceremonies will be available at www.clackamas.edu/graduation in early spring. For questions related to the ceremony, contact GradCeremony@clackamas.edu.

SI USTED HABLA ESPAÑOL

Información en español

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

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

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

Clases de ESOL (Inglés para hablantes de otras lenguas)

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

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

GED en español

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

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

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

Ayuda Financiera

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

Para más información, llame al 503-594-6082

Servicios de Workforce

WorkSource Clackamas ofrece servicios gratuitos que pueden ayudar con:

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

Para más información, llame al 503-594-6246

Para tomar clases de crédito

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

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

VETERANS SERVICES

Veterans Education and Training Center

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

vetinfo@clackamas.edu

www.clackamas.edu/veterans

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

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

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

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

WORKFORCE SERVICES

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



Job Search and Training Help

Are you looking for a job?

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

Interested in working and learning on the job?

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

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

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

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

Consult the experts!

NO-COST CAREER WORKSHOPS AT WORKSOURCE CLACKAMAS

506 High Street, Oregon City 97045

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

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

Building skills and growing businesses!

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

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

ONLINE LEARNING

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

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

New to Online Learning?

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

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

Get Started in Online Learning

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

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

Still need help?

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

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

ONLINE COURSES

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

REMOTE COURSES

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

HYBRID COURSES

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

ALL COURSES

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



CLACKAMAS IN YOUR COMMUNITY

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

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

CCC at Harmony Community Campus

7738 SE Harmony Road, Milwaukie, OR 97222

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 Sept. 2, Nov. 11, 28, and 29. The College will open after 1pm due to In-Service training on Tuesday, September 24th & Wednesday, September 25th.

Building Hours

Sept. 3-27	M-F	7:00 a.m.-8 p.m.
Sept. 30-Dec. 14	M-Th	7:00 a.m.-10 p.m.
	F	7:00 a.m.-10 p.m.
	S	8 a.m.-5 p.m.

Student Services

Sept. 3-27	M -Th	9 a.m.-6 p.m.
	F	Remote Services
Sept 30-Oct. 4	M- W	9 a.m.-6:30 p.m.
	Th	9 a.m.-6 p.m.
	F	Remote Services
Oct. 7-Dec. 13	M-Th	9 a.m.-6 p.m.
	F	Remote Services

Advising

Sept. 3-27	M	Remote Services
	T -Th	10 a.m.-4:30 p.m.
	F	Remote Services
Sept. 30-Oct. 4	M- W	10 a.m.-6:30 p.m.
	Th	10 a.m.-4:30 p.m.
	F	Remote Services
Oct. 7-Dec. 13	M	Remote Services
	T -Th	10 a.m.-4:30 p.m.
	F	Remote Services

Testing & Assessment

Sept. 30-Dec. 14	TBD
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ITS

Sept. 30-Dec. 14	TBD
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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

Sept. 30-Dec. 14	M-Th	7 a.m.-6:30 p.m.
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Student Services

By appointment only. Please call 503-594-0940 or email wilsonvilleinfo@clackamas.edu

Sept. 30-Dec. 14	M-Th	7 a.m.-6:30 p.m.
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Advising Center

Advising by appointment. Please call 503-594-0959 or e-mail apprenticeship.advising@clackamas.edu

Sept. 30-Dec. 14	Th	10 a.m.-7 p.m.
	MTWF	by appointment

Testing & Assessment Center

Testing by appointment. Please call 503-594-0940 or e-mail testing.wilsonville@clackamas.edu

Sept. 30-Dec. 14	M-Th	9 a.m.-5 p.m.
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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.



Cougar Alert!

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 Fall 2024

Harmony Community Campus

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

Biology

BI-112	GENERAL BIOLOGY FOR HEALTH SCIENCES	4 CREDITS
BI-112L	GENERAL BIOLOGY FOR HEALTH SCIENCES LAB	0 CREDIT
BI-120	INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY	4 CREDITS
BI-120L	INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY LAB	0 CREDIT
BI-231	HUMAN ANATOMY & PHYSIOLOGY I	4 CREDITS
BI-231L	HUMAN ANATOMY & PHYSIOLOGY I LAB	0 CREDIT

Business Administration

BA-211Z	PRINCIPLES OF FINANCIAL ACCOUNTING	4 CREDITS
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Chemistry

CH-112	CHEMISTRY FOR HEALTH SCIENCES	4 CREDITS
CH-112L	CHEMISTRY FOR HEALTH SCIENCES LAB	0 CREDIT
CH-114	CHEMISTRY IN ART	4 CREDITS
CH-114L	CHEMISTRY IN ART LAB	0 CREDIT

College and Career Guidance

HD-144	ASSERTIVENESS	1 CREDIT
HD-145	STRESS MANAGEMENT	1 CREDIT

Communication Studies

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

Criminal Justice

CJA-101	CRIMINOLOGY	4 CREDITS
CJA-110	INTRODUCTION TO LAW ENFORCEMENT	3 CREDITS
CJA-122	CRIMINAL LAW	4 CREDITS
CJA-206	TRAUMA INFORMED PRACTICES	3 CREDITS
CJA-210	CRIMINAL INVESTIGATION I	3 CREDITS

CJA-214	INTIMATE PARTNER VIOLENCE	3 CREDITS
CJA-223	CRIMINAL JUSTICE ETHICS	3 CREDITS
CJA-252	INTRODUCTION TO RESTORATIVE JUSTICE	3 CREDITS
CJA-280	CRIMINAL JUSTICE/CORRECTIONS/CWE	2-6 CREDITS
CJA-281	CRIMINAL JUSTICE/CORRECTIONS/CWE	2-6 CREDITS

Dental Assistant

DA-101	DENTAL RADIOLOGY I	2 CREDITS
DA-101L	DENTAL RADIOLOGY I LAB	1 CREDIT
DA-104	CLINICAL PROCEDURES I	2 CREDITS
DA-104L	CLINICAL PROCEDURES I LAB	1 CREDIT
DA-107	DENTAL MATERIALS I	2 CREDITS
DA-107L	DENTAL MATERIALS I LAB	1 CREDIT
DA-110	CLINICAL PRACTICUM I	1 CREDIT
DA-115	DENTAL SCIENCE	2 CREDITS
DA-125	DENTAL INFECTION CONTROL	2 CREDITS

Economics

EC-201	PRINCIPLES OF ECONOMICS: MICRO	4 CREDITS
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Emergency Medical Technology

EMT-101	EMERGENCY MEDICAL TECHNICIAN PART I	6 CREDITS
EMT-105	INTRODUCTION TO EMERGENCY MEDICAL SERVICES	3 CREDITS

English for Speakers of Other Languages

ESOL-012	BEGINNING ESOL	0 CREDIT
ESOL-015	BEGINNING READING, WRITING, AND GRAMMAR	0 CREDIT
ESOL-020	UPPER BEGINNING GRAMMAR	0 CREDIT
ESOL-022	UPPER BEGINNING CONVERSATION	0 CREDIT
ESOL-024	UPPER BEGINNING READING & WRITING	0 CREDIT
ESOL-030	INTERMEDIATE GRAMMAR A	0 CREDIT
ESOL-032	INTERMEDIATE CONVERSATION 1	0 CREDIT
ESOL-034	INTERMEDIATE READING & WRITING	0 CREDIT
ESOL-042	UPPER INTERMEDIATE CONVERSATION 1	0 CREDIT
ESOL-046	EDITING FOR BETTER WRITING	0 CREDIT
ESOL-052	ADVANCED COMMUNICATION SKILLS 1	0 CREDIT
ESOL-054	ADVANCED READING & WRITING	0 CREDIT
ESOL-055	ADVANCED GRAMMAR C	0 CREDIT
ESOL-082	ASSESS/EVALUATE NEW STUDENTS	0 CREDIT
ESOL-083	EDUCATIONAL PLANNING FOR RETURNING STUDENTS	0 CREDIT

Environmental Science

ESR-171	INTRODUCTION TO ENVIRONMENTAL SCIENCE	4 CREDITS
ESR-171L	INTRODUCTION TO ENVIRONMENTAL SCIENCE LAB	0 CREDIT

Food & Nutrition

FN-110	PERSONAL NUTRITION	3 CREDITS
FN-225	NUTRITION	4 CREDITS

General Development Education (GED)

GED-011	GED IN ESPAÑOL	0 CREDIT
GED-015	GED PREPARATION	0 CREDIT
GED-049	LATINO GED & LIFE SKILLS	0 CREDIT

Geology

G-101	GENERAL GEOLOGY	4 CREDITS
G-101L	GENERAL GEOLOGY LAB	0 CREDIT
G-201	GENERAL GEOLOGY	4 CREDITS
G-201L	GENERAL GEOLOGY LAB	0 CREDIT

Gerontology

GRN-181	ISSUES IN AGING	3 CREDITS
GRN-280	GERONTOLOGY/CWE	2-6 CREDITS

Health Professions

HP-100	HEALTHCARE PROVIDER BLS/CPR, FIRST AID/BLOODBORNE PATHOGENS	1 CREDIT
HP-110	MEDICAL TERMINOLOGY	4 CREDITS
HP-120	INTRODUCTION TO HEALTH SCIENCES	3 CREDITS

High School Diploma (AHSD)

XASE-0001	BASIC ESSENTIAL SKILLS SUPPORT	0 CREDIT
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Human Services

HS-206	TRAUMA INFORMED PRACTICES	3 CREDITS
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Mathematics

MTH-020	FUNDAMENTALS OF ARITHMETIC II	4 CREDITS
MTH-020ES	FUNDAMENTOS DE ARITMÉTICA II	4 CREDITS
MTH-060	ALGEBRA I	4 CREDITS
MTH-065	ALGEBRA II	4 CREDITS
MTH-095	ALGEBRA III	4 CREDITS
MTH-105Z	MATH IN SOCIETY	4 CREDITS
MTH-111Z	PRECALCULUS I: FUNCTIONS	4 CREDITS
MTH-112Z	PRECALCULUS II: TRIGONOMETRY	4 CREDITS
MTH-213	FUNDAMENTALS OF ELEMENTARY MATH III	4 CREDITS

Medical Assistant

MA-150	MEDICAL OFFICE PRACTICES	4 CREDITS
MA-152	EXAMINATION ROOM TECHNIQUES I	3 CREDITS

MA-152L	EXAMINATION ROOM TECHNIQUES I LAB	1 CREDIT
MA-154	BODY SYSTEMS AND PHARMACOLOGY	4 CREDITS
MA-158	SEMINAR I	2 CREDITS

Nursing

NRS-110	FOUNDATIONS OF NURSING - HEALTH PROMOTION	5 CREDITS
NRS-110C	FOUNDATIONS OF NURSING - HEALTH PROMOTION CLINICAL	4 CREDITS
NRS-222	NURSING IN ACUTE CARE II & END OF LIFE	4 CREDITS
NRS-222C	NURSING IN ACUTE CARE II & END OF LIFE CLINICAL	5 CREDITS
NRS-230	CLINICAL PHARMACOLOGY I	3 CREDITS
NUR-100	NURSING ASSISTANT I	6.5 CREDITS
NUR-100C	NURSING ASSISTANT I CLINICAL	0 CREDIT

Philosophy

PHL-102	ETHICS	4 CREDITS
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Phlebotomy

PHB-110	FUNDAMENTALS OF PHLEBOTOMY	5 CREDITS
PHB-112	PHLEBOTOMY TECHNIQUES	2 CREDITS
PHB-115	PROFESSIONALISM FOR PHLEBOTOMISTS	1 CREDIT

Psychology

PSY-101	HUMAN RELATIONS	3 CREDITS
PSY-215	INTRODUCTION TO DEVELOPMENTAL PSYCHOLOGY	4 CREDITS
PSY-219	INTRODUCTION TO ABNORMAL PSYCHOLOGY	4 CREDITS

Religion

R-210	WORLD RELIGIONS	4 CREDITS
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Small Business 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-021A	SMALL BUSINESS MANAGEMENT I	0 CREDIT
SBM-024	SUCCESSION PLANNING	0 CREDIT
SBM-024A	SUCCESSION PLANNING	0 CREDIT
SBM-028	SMALL BUSINESS MANAGEMENT I FOR CONSTRUCTION CONTRACTORS	0 CREDIT
SBM-028A	SMALL BUSINESS MANAGEMENT I FOR CONSTRUCTION CONTRACTORS	0 CREDIT
SBM-029	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

Sociology

SOC-206 INSTITUTIONS & SOCIAL CHANGE 4 CREDITS

Writing

WR-121Z COMPOSITION I 4 CREDITS

WR-122Z COMPOSITION II 4 CREDITS

WR-227Z TECHNICAL WRITING 4 CREDITS

WRD-098 INTRODUCTORY COLLEGE
READING & WRITING 2 4 CREDITS

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

Credit and non-credit Courses offered Fall 2024

Adult Basic Education (ABE)

ABE-012 ADULT BASIC EDUCATION, 0 CREDIT

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

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

Required: Student Petition.

Anthropology

ANT-101 PHYSICAL ANTHROPOLOGY, 4 CREDITS

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

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

OC LCT	ANT-101-01	333461	TTH	1-2:50 PM					
	K. BACA	\$504.00	\$52.00	\$0.00	\$556.00				

Online textbook provided first day of class.

ANT-102 ARCHAEOLOGY & PREHISTORY, 4 CREDITS

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

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

OC LCT	ANT-102-01	333464	TTH	10-11:50 AM					
	K. BACA	\$504.00	\$52.00	\$0.00	\$556.00				

Online textbook provided first day of class.

ONL LCT	ANT-102-02	337614							
	K. BACA	\$504.00	\$52.00	\$0.00	\$556.00				

Online textbook provided first day of class.

ANT-103 CULTURAL ANTHROPOLOGY, 4 CREDITS

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

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

ONL LCT	ANT-103-01	333467							
	K. BACA	\$504.00	\$52.00	\$0.00	\$556.00				

Online textbook provided first day of class.

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

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

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VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Corequisites: CWE-281

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

OC	ANT-280-01	333471							
	K. BACA	\$756.00	\$78.00	\$45.00	\$879.00V				

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

Art

ART-100A JEWELRY MAKING TECHNIQUES, 1 CREDIT

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

OC	ART-100A-01	337612	T	6-8:50 PM					
	J. IJIMA	\$126.00	\$13.00	\$125.00	\$264.00				

Meets: 10/15-11/26. Focus: Chain Making.

ART-101 ART APPRECIATION, 3 CREDITS

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

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

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

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

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

ART-119 TIME-BASED ART, 4 CREDITS

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

ONL LCT	ART-119-01	333591							
	K. SIMMONS	\$504.00	\$52.00	\$80.00	\$636.00				

Required: Pick up supplies on campus 10/2, 10:00-12:00pm.

ART-131 INTRODUCTION TO DRAWING, 4 CREDITS

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

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total	Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total	
	Instructor		Tuition	Fee	Crs. Fee			Instructor		Tuition	Fee	Crs. Fee		
ONL LCT	ART-131-01 333596 A. SCHROER		\$504.00	\$52.00	\$80.00	\$636.00								
	Required: Pick up supplies on campus 10/1, 10:00-12:00pm.													
OC LCT	ART-131-02 333600 MW R. KALMAN		\$504.00	\$52.00	\$80.00	\$636.00						9-11:50 AM		
OC LCT	ART-131-03 333602 MW R. KALMAN		\$504.00	\$52.00	\$80.00	\$636.00						1-3:50 PM		
ONL	ART-131-04 339061 A. SCHROER		\$504.00	\$52.00	\$80.00	\$636.00								
ART-161 PHOTOGRAPHY I, 4 CREDITS														
Introduction to basic camera operation and basic darkroom processes in developing and printing film. Elements of composition, content, and historical reference will be explored.														
Required: Access to a 35mm black and white camera with adjustable exposure controls (no digital cameras)														
oc	ART-161-01 337916 TTH C. GIFFEN		\$504.00	\$52.00	\$150.00	\$706.00						1-3:50 PM		
Required: Access to a 35mm black and white camera with adjustable exposure controls (no digital cameras).														
ART-162 PHOTOGRAPHY II, 4 CREDITS														
This course is the second of a sequence of three darkroom photography courses. This course explores camera operation and darkroom processes in developing and printing film. Photography II explores the photo processes and elements of composition, content, and historical/contemporary references at an intermediate level.														
Prerequisites: ART-161														
Required: Access to a 35mm black and white camera with adjustable exposure controls (no digital cameras)														
oc	ART-162-01 337923 TTH C. GIFFEN		\$504.00	\$52.00	\$150.00	\$706.00						1-3:50 PM		
ART-204 HISTORY OF ART/ANCIENT THROUGH MEDIEVAL, 4 CREDITS														
Examines art, cultures, and history from the Paleolithic era through the early Medieval eras. This is a broad overview of art history that promotes an understanding of art and its history through readings, discussion, papers and exams.														
Recommended Prerequisites: WR-121Z														
ONL LCT	ART-204-01 333147 J. SIMONE		\$504.00	\$52.00	\$21.00	\$577.00								
ART-250 CERAMICS/BEGINNING, 4 CREDITS														
This course is a broad general introduction to fundamental ceramic skills and clay experience to foster artistic growth. Students explore different methods of working with clay, including pinching, coiling, slab construction, and throwing on the wheel and are introduced to glazing and firing methods. Students research the history of ceramics and its connection to culture and society.														
OC LCT	ART-250-01 333616 TTH N. BRODNICKI		\$504.00	\$52.00	\$79.00	\$635.00						9-11:50 AM		
OC LCT	ART-250-02 333619 TTH N. BRODNICKI		\$504.00	\$52.00	\$79.00	\$635.00						1-3:50 PM		
OC LCT	ART-250-03 333623 TTH N. WARRENS		\$504.00	\$52.00	\$79.00	\$635.00						6-8:50 PM		
ART-253 CERAMICS/INTERMEDIATE, 4 CREDITS														
In this course, students further develop ceramic skills and clay experience to foster artistic growth. Students explore and develop different methods of working with clay, including pinching, coiling, slab construction, and throwing on the wheel and refine glazing and firing methods. Students research the history of ceramics and its connection to culture and society.														
Prerequisites: ART-250, ART-251, or ART-252, or Student Petition														
OC LCT	ART-253-01 333626 TTH N. BRODNICKI		\$504.00	\$52.00	\$79.00	\$635.00						9-11:50 AM		
OC LCT	ART-253-02 333628 TTH N. BRODNICKI		\$504.00	\$52.00	\$79.00	\$635.00						1-3:50 PM		
OC LCT	ART-253-03 333631 TTH N. WARRENS		\$504.00	\$52.00	\$79.00	\$635.00						6-8:50 PM		
ART-257 METALSMITHING/JEWELRY, 4 CREDITS														
This course examines basic techniques in metalsmithing and jewelry-making. Students will learn basic techniques and processes of metalsmithing such as sawing, cold connection, soldering, metal inlay, fabrication, forming, surface treatments and casting. The focus of this class will be placed on creating forms for body adornment. Critiques, discussions and presentations are included in this course.														
OC LCT	ART-257-01 333633 TTH J. IJIMA		\$504.00	\$52.00	\$80.00	\$636.00						2-4:50 PM		
ART-258 METALSMITHING/JEWELRY: INTERMEDIATE, 4 CREDITS														
This course continues the study of applied design principles in metalsmithing and jewelry-making, with an emphasis on creating original designs. Students will learn more advanced technical processes and engage in discussions about the relationship between jewelry/art metal and different fields. Students who aspire to pursue a career in the jewelry and metalsmithing trades will receive practical guidelines to help them achieve their goals.														
Prerequisites: ART-257														
oc	ART-258-01 337928 TTH J. IJIMA		\$504.00	\$52.00	\$20.00	\$576.00						2-4:50 PM		
ART-261 PHOTOGRAPHY III, 4 CREDITS														
This course is the third of a sequence of three darkroom photography courses. This course explores camera operation and darkroom processes in developing and printing film. Photography III explores the photo processes and elements of composition, content, and historical/contemporary references at an advanced level.														
Prerequisites: ART-161 and ART-162														
Required: Access to a 35mm black and white camera with adjustable exposure controls (no digital cameras)														
oc	ART-261-01 337924 TTH C. GIFFEN		\$504.00	\$52.00	\$80.00	\$636.00						1-3:50 PM		
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														
OC LCT	ART-262-01 333637 TTH D. OLSEN		\$504.00	\$52.00	\$80.00	\$636.00						9-11:50 AM		
ONL LCT	ART-262-02 333644 S. ELIOT		\$504.00	\$52.00	\$80.00	\$636.00								
Adobe Photoshop is used.														

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

ART-281 PAINTING: STILL LIFE/BEGINNING, 4 CREDITS
 Introduces basic painting tools, materials, techniques, and elements of composition, color, value, and space. Projects involve observational painting with a focus on Still Life and its relationship to volume and form on a two-dimensional plane. Course includes painting, readings and group critiques.

Prerequisites: ART-131 or Student Petition

OC LCT	ART-281-01	333647 F			9-2:50 PM	
	D. ANDERSEN	\$504.00	\$52.00	\$95.00	\$651.00	

ART-284 PAINTING: STILL LIFE/INTERMEDIATE, 4 CREDITS
 Learn intermediate painting tools, materials, techniques, and elements of composition, color, value and space. Projects involve observational painting with a focus on Still Life and its relationship to volume and form on a two-dimensional plane. Course includes painting, readings and group critiques.

Prerequisites: ART-281 or Student Petition

OC LCT	ART-284-01	333650 F			9-2:50 PM	
	D. ANDERSEN	\$504.00	\$52.00	\$95.00	\$651.00	

ART-291 SCULPTURE, 4 CREDITS
 Introduction to the processes and concepts of sculpture; the elements of form and space will be explored. Clay, plaster, mold making, carving, and assemblage will be introduced. Reference to historical and aesthetic content will be presented.

OC LCT	ART-291-01	333652 MW			1-3:50 PM	
	K. SIMMONS	\$504.00	\$52.00	\$80.00	\$636.00	

Auto Body/Collision Repair and Refinishing

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

AB-101 AUTO RESTORATION, 3 CREDITS
 Designed for students interested in auto body repair and painting their own vehicles. Includes dent removal, panel replacement, welding and painting. May be repeated for up to 12 credits.

OC LCT	AB-101-01	333501 S			8-7:50 PM	
	A. DANIEK	\$378.00	\$39.00	\$175.00	\$592.00	
	Meets: 10/5, 10/19, 11/2, 11/16, & 12/7.					
OC LCT	AB-101-02	333503 S			8-7:50 PM	
	P. NESBITT	\$378.00	\$39.00	\$175.00	\$592.00	
	Meets: 10/12, 10/26, 11/9, 11/23 & 12/14.					

AB-105 STREET ROD CONSTRUCTION TECHNIQUES, 3 CREDITS
 In this course, students will learn panel forming, welding, basic body work and repair of individual projects. Includes shop safety, chemical hazard safety, proper and safe use of tools, basic metal work and finishing, and paint preparation and application.

OC LCT	AB-105-01	333512 THF			6:30 -9:20 PM	
	F. DAVIS	\$378.00	\$39.00	\$175.00	\$592.00	

AB-112 COLLISION REPAIR WELDING I, 2 CREDITS
 This class focuses on auto collision damage repair. Emphasis is on Metal Inert Gas (MIG), Gas Metal Arc Welding (GMAW), welding on light gauge metals, and oxygen-acetylene cutting.

OC LCT	AB-112-01	333513 F			8-12:20 PM	
	C. DAHLSTRUD-RIVERA	\$252.00	\$26.00	\$170.00	\$448.00	

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AB-113 COLLISION REPAIR I/NONSTRUCTURAL, 6 CREDITS
 Provides basic instruction in collision repairs, including shop safety and chemical hazard safety; proper and safe use of tools; basic metal work and finishing; use of filler; door removal, replacement and alignment; and replacement and alignment of bolt-on front end sheet metal parts.

Prerequisite or Corequisite: AB-112 and ABR-125

OC LCT	AB-113-01	333515 MT			7-12:20 PM	
	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 (STRSW), and other advanced welding techniques specific to collision damage repair.

Prerequisites: AB-112

OC LCT	AB-123-01	333518 F			8-12:20 PM	
	C. DAHLSTRUD-RIVERA	\$252.00	\$26.00	\$158.00	\$436.00	

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 LCT	AB-133-01	333519 MT			7-12:20 PM	
	M. HOUSE	\$756.00	\$78.00	\$337.00	\$1,171.00	

AB-149 COLLISION REPAIR ESTIMATING I, 2 CREDITS
 This course provides instruction in procedure and terminology used in the collision repair estimating field. Body part component identification and the effects of a collision on a vehicle will be studied.

OC LCT	AB-149-01	333520 M			1:30 -3:50 PM	
	A. YAGER-ROUNDS	\$252.00	\$26.00	\$120.00	\$398.00	

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 LCT	AB-222-01	333522 MT			7-12:20 PM	
	M. HOUSE	\$756.00	\$78.00	\$337.00	\$1,171.00	

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

OC LCT	AB-224-01	333524 MT			7-12:20 PM	
	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.

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total	Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
	Instructor		Tuition	Fee	Crs. Fee			Instructor		Tuition	Fee	Crs. Fee	
Prerequisites: AB-224							OC LCT	ABR-227-01	333539	WTH		7-12:20 PM	
OC LCT	AB-226-01	333525	MT		7-12:20 PM		M. HOUSE		\$756.00	\$78.00	\$337.00	\$1,171.00	
	M. HOUSE		\$756.00	\$78.00	\$337.00	\$1,171.00							
Automotive Service Technology													
<i>Must have ANSI approved eye protection first day and comply with College safety policy.</i>													
AM-100 AUTOMOTIVE FUNDAMENTALS, 4 CREDITS													
An introductory automotive service class intended to provide fundamental knowledge and basic experience about automobiles. The course covers automotive systems, preventive maintenance and performing basic repairs. Also covered in the course is SP2 safety and pollution prevention training, communication skills, tool identification and general automotive maintenance and repair.													
OC	AM-100-01	333541	MTWTH		10-11:50 AM		L. BLAHUTA		\$504.00	\$52.00	\$114.00	\$670.00	
AM-101 INTRO TO AUTOMOTIVE SERVICE TECHNOLOGY, 2 CREDITS													
This course will prepare students for success in the Automotive Service Technology Program. Shop orientation and automotive industry safety training will be provided. Students can earn industry-recognized certificates. Students will be exposed to industry-recognized online service information. Students will also be introduced to tasks that align with the Auto Service Excellence Education Foundation (ASEEF) Master Automotive Service Technician (MAST) program accreditation.													
Corequisites: AM-129, AM-130, AM-131, AM-133, AM-135, or AM-142													
Prerequisites: MTH-020 or placement in MTH-050, and placement in WRD-090													
OC	AM-101-01	333544	MTWTHF		1-5:50 PM		N. ROBERTS		\$252.00	\$26.00	\$5.00	\$283.00	
							Meets: 9/30/10/4.						
AM-106 FIX YOUR OWN CAR, 2 CREDITS													
A do-it-yourself course for students who want to work on their own cars. Includes: oil change, lubrication, fluid checks, brakes, cooling system, electrical system, safety, and other quick services. May be repeated for up to 12 credits.													
OC LCT	AM-106-02	333546	S		8-4:20 PM		T. SHOCKLEY		\$252.00	\$26.00	\$63.00	\$341.00	
							Meets: 10/12, 10/26, 11/9, 11/23 & 12/14.						
AM-118 SMALL ENGINE REPAIR, 4 CREDITS													
This course is designed to provide an overview of basic small engine maintenance, operation and repair. It covers safety, small engine theory, electrical systems, and troubleshooting. Classroom instruction covering theory of operation, 2 cycle and 4 cycle designs and applications, combined with hands-on live projects provides the student the opportunity to learn basic principles of small engine operation, including outdoor equipment, motorcycles, and A.T.V.'s.													
OC LCT	AM-118-01	333560	THF		6-9:50 PM		T. CARLSON		\$504.00	\$52.00	\$121.00	\$677.00	
OC LCT	AM-118-02	333564	MTWTH		7:30 -9:20 AM		L. BLAHUTA		\$504.00	\$52.00	\$121.00	\$677.00	
OC	AM-118-03	337736	MTWTH		1-2:50 PM		L. BLAHUTA		\$504.00	\$52.00	\$121.00	\$677.00	
AM-129 ELECTRICAL SYSTEMS I, 5 CREDITS													

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
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OFF: Other Off-Campus Location

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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

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

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

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

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

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

AM-130 BRAKE SYSTEMS, 5 CREDITS

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

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

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

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

AM-201 AUTOMOTIVE INTERNSHIP, 3 CREDITS

Students will be completing a portfolio project to present to companies in the automotive industry. Students will learn best practices for interview preparedness and resume development. There will be a scheduled interview day with partners in industry to help place students in the workforce for internship. Students will prepare for Auto Service Excellence (ASE) certification tests.

Prerequisites: AM-101

oc LCT	AM-201-01	333574	F		7-12:20 PM	
	N. ROBERTS	\$378.00	\$39.00	\$5.00	\$422.00	
	Meets: 10/4-11/8.					

AM-224 COMFORT SYSTEMS, 5 CREDITS

In this course, students will learn design, construction, testing, maintenance, and repair of automotive heating and air conditioning systems. Prepares a student to take the Section 609 Environmental Protection Agency certification test.

Prerequisites: AM-129

oc LCT	AM-224-01	333575	MTWTH		7-11:50 AM	
	TBA	\$630.00	\$65.00	\$134.00	\$829.00	
	Meets: 9/30-10/31.					
oc LCT	AM-224-02	333578	MTWTH		7-11:50 AM	
	TBA	\$630.00	\$65.00	\$134.00	\$829.00	
	Meets: 11/4-12/5.					

AM-229 ELECTRICAL SYSTEMS II, 5 CREDITS

In this course students will learn fundamentals of electronics, diagnosis, and repair of general electrical including, lighting systems, instrument cluster and driver information systems, and body electrical systems.

Prerequisites: AM-129

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

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HYB: In-person plus online work

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

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

oc	AM-229-01	333580	MTWTH		7-11:50 AM	
	N. ROBERTS	\$630.00	\$65.00	\$211.00	\$906.00	
	Meets: 9/30-10/31.					
oc	AM-229-02	333581	MTWTH		7-11:50 AM	
	N. ROBERTS	\$630.00	\$65.00	\$211.00	\$906.00	
	Meets: 11/4-12/5.					

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

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

Corequisites: CWE-281

oc LCT	AM-280-01	333582				
	N. ROBERTS	\$756.00	\$78.00	\$45.00	\$879.00V	
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

Biology

BI-101 GENERAL BIOLOGY; CELLULAR BIOLOGY, 4 CREDITS

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

Corequisites: BI-101L

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

oc	BI-101-01	333660	MW		1-2:20 PM	
	E. DEBEY	\$504.00	\$52.00	\$55.00	\$611.00	
	Corequisite: Take 1 of the following BI-101L-01, BI-101L-02, BI-101L-03.					
oc	BI-101-02	333664	TTH		9-10:20 AM	
	E. DEBEY	\$504.00	\$52.00	\$55.00	\$611.00	
	Corequisite: Take 1 of the following BI-101L-01, BI-101L-02, BI-101L-03.					
oc	BI-101-20	333667	MW		6-7:20 PM	
	K. OSTLUND	\$504.00	\$52.00	\$55.00	\$611.00	
	Corequisite: Take the following BI-101L-20.					
ONL	BI-101-40	333668				
	E. DEBEY	\$504.00	\$52.00	\$55.00	\$611.00	
	Corequisite: Take the following BI-101L-40.					
ONL	BI-101-41	333670				
	A. KAPILA	\$504.00	\$52.00	\$55.00	\$611.00	
	Corequisite: Take the following BI-101L-41.					

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

Lab course for BI-101

Corequisites: BI-101

oc	BI-101L-01	333672	MW		2:30 -3:50 PM	
	E. DEBEY	\$0.00	\$0.00	\$0.00	\$0.00	
	Corequisite: Take 1 of the following BI-101-01, BI-101-02.					
oc	BI-101L-02	333674	TTH		10:30 -11:50 AM	
	E. DEBEY	\$0.00	\$0.00	\$0.00	\$0.00	
	Corequisite: Take 1 of the following BI-101-01, BI-101-02.					
oc	BI-101L-03	333676	TTH		1-2:20 PM	
	E. DEBEY	\$0.00	\$0.00	\$0.00	\$0.00	
	Corequisite: Take 1 of the following BI-101-01, BI-101-02.					
oc	BI-101L-20	333677	MW		7:30 -8:50 PM	
	K. OSTLUND	\$0.00	\$0.00	\$0.00	\$0.00	
	Corequisite: Take the following BI-101-20.					

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
ONL LCT	BI-101L-40 333679 E. DEBEY Corequisite: Take the following BI-101-40.					\$0.00	\$0.00	\$0.00		\$0.00
ONL LCT	BI-101L-41 333681 A. KAPILA Corequisite: Take the following BI-101-41.					\$0.00	\$0.00	\$0.00		\$0.00
BI-102	GENERAL BIOLOGY; ANIMAL SYSTEMS, 4 CREDITS An inquiry-based laboratory course focusing on human and animal body systems; including teratogens, Hox genes and hormone mimics in embryonic development. Activities emphasize comparisons across animal phyla to better understand the diversity of life. The class uses student centered activities in a collaborative learning environment to enhance appreciation of the animal kingdom. Corequisites: BI-102L Recommended Prerequisites: MTH-060 or MTH-098 or placement in MTH-065; and WRD-098 or placement in WR-121Z									
ONL	BI-102-40 333682 N. SEFCIKOVA					\$504.00	\$52.00	\$55.00		\$611.00
BI-102L	GENERAL BIOLOGY; ANIMAL SYSTEMS LAB, 0 CREDIT Lab course for BI-102 Corequisites: BI-102									
ONL	BI-102L-40 333685 N. SEFCIKOVA					\$0.00	\$0.00	\$0.00		\$0.00
BI-103	GENERAL BIOLOGY; PLANTS & THE ECOSYSTEM, 4 CREDITS An inquiry-based laboratory course focusing on plants and the ecosystem; including plant identification, population dynamics, productivity and energy flow. Activities include an integrated approach to understanding environmental issues and the impact of humans on the biosphere. The class uses student centered activities in a collaborative learning environment to enhance appreciation of the biological world. Corequisites: BI-103L Recommended Prerequisites: MTH-060 or MTH-098 or placement in MTH-065; and WRD-098 or placement in WR-121Z									
ONL	BI-103-40 333688 K. OSTLUND					\$504.00	\$52.00	\$55.00		\$611.00
BI-103L	GENERAL BIOLOGY; PLANTS & THE ECOSYSTEM LAB, 0 CREDIT Lab course for BI-103 Corequisites: BI-103									
ONL	BI-103L-40 333690 K. OSTLUND					\$0.00	\$0.00	\$0.00		\$0.00
BI-112	GENERAL BIOLOGY FOR HEALTH SCIENCES, 4 CREDITS A one-term preparatory course that introduces the Health Occupations student to the scientific method, molecular and cellular biology, principles of inheritance, homeostasis, natural selection, tissues, and organ systems. Topics and skills covered prepare students to enter BI-231 and BI-234. Corequisites: BI-112L Recommended Corequisite: CH-112 Recommended Prerequisites: MTH-060 or MTH-098 or placement in MTH-065, and WRD-098 or placement in WR-121Z									
oc	BI-112-01 333691 TTH J. BOWN Corequisite: Take 1 of the following BI-112L-01, BI-112L-02.					\$504.00	\$52.00	\$55.00		\$611.00
BI-112-15	GENERAL BIOLOGY FOR HEALTH SCIENCES LAB, 0 CREDIT Lab course for BI-112 Corequisites: BI-112									
HAR	BI-112-15 333694 MW P. JONES Corequisite: Take the following BI-112L-15.					\$504.00	\$52.00	\$55.00		\$611.00
ONL	BI-112-20 337663 S. KELSEY Corequisite: Take the following BI-112L-20.					\$504.00	\$52.00	\$55.00		\$611.00
ONL	BI-112-40 333696 M. ANDURI-FLYNN Corequisite: Take the following BI-112L-40.					\$504.00	\$52.00	\$55.00		\$611.00
BI-112L	GENERAL BIOLOGY FOR HEALTH SCIENCES LAB, 0 CREDIT Lab course for BI-112 Corequisites: BI-112									
oc	BI-112L-01 333698 T J. BOWN Corequisite: Take the following BI-112-01.					\$0.00	\$0.00	\$0.00		\$0.00
oc	BI-112L-02 333701 TH J. BOWN Corequisite: Take the following BI-112-01.					\$0.00	\$0.00	\$0.00		\$0.00
HAR	BI-112L-15 333703 MW P. JONES Corequisite: Take the following BI-112-15.					\$0.00	\$0.00	\$0.00		\$0.00
oc	BI-112L-20 337664 T S. KELSEY Corequisite: Take the following BI-112-20.					\$0.00	\$0.00	\$0.00		\$0.00
ONL	BI-112L-40 333705 M. ANDURI-FLYNN Corequisite: Take the following BI-112-40.					\$0.00	\$0.00	\$0.00		\$0.00
BI-120	INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY, 4 CREDITS This course is designed to serve students as an overview introductory course to human anatomy and physiology. Material covered includes the structure and function of the human body. Basic chemistry and cell structures are covered, as well as the organization of tissues, organs, and organ systems. Correlations can then be made between this material and disease states commonly encountered in health care. Dissection of animal tissues is required. Corequisites: BI-120L									
HAR	BI-120-15 333707 MW P. JONES This class is intended as a pre-requisite for the Medical Assistant and Medical Coding and Billing Programs.					\$504.00	\$52.00	\$55.00		\$611.00
BI-120L	INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY LAB, 0 CREDIT Lab course for BI-120 Corequisites: BI-120									
HAR	BI-120L-15 333709 MW P. JONES					\$0.00	\$0.00	\$0.00		\$0.00
BI-165C	NATURAL HISTORY OF THE OREGON COAST, 3 CREDITS Explores the natural processes that form our Northwest coastal environment: geologic development, shoreline processes, oceanography, and environmental hazards. Topics include the ecology of marine mammals, fish, birds, estuaries, tidepools, sand dunes, and coastal forests.									
oc	BI-165C-20 333713 T J. BOWN					\$378.00	\$39.00	\$20.00		\$437.00

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Other Coding Translations:
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ESPAÑOL: Enseñado en español
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Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total	Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total	
		Instructor		Tuition	Fee	Crs. Fee			Instructor		Tuition	Fee	Crs. Fee	Total
BI-165CL	NATURAL HISTORY OF THE OREGON COAST WITH LAB, 4 CREDITS						HAR	BI-231-15	333735 TTH				9-10:20 AM	
	Explores the natural processes that form our Northwest coastal environment: geologic development, shoreline processes, oceanography, and environmental hazards. Topics include the ecology of marine mammals and birds, estuaries, tide pools, sand dunes and coastal forests. Lab included with field trips and lab activities.							M. PATTERSON		\$504.00	\$52.00	\$55.00	\$611.00	
								Corequisite: Take the following BI-231L-15.						
							OC HYB	BI-231-20	333734 M				6:30 -9:00 PM	
								B. KOP		\$504.00	\$52.00	\$55.00	\$611.00	
								Corequisite: Take the following BI-231L-20.						
							BI-231L	HUMAN ANATOMY & PHYSIOLOGY I LAB, 0 CREDIT						
								Lab course for BI-231						
								Corequisites: BI-231						
							OC	BI-231L-01	333738 M				1-3:50 PM	
								M. PATTERSON		\$0.00	\$0.00	\$0.00	\$0.00	
								Corequisite: Take 1 of the following BI-231-01, BI-231-02.						
							OC	BI-231L-02	333745 T				3:30 -6:20 PM	
								J. GALLEGOS		\$0.00	\$0.00	\$0.00	\$0.00	
								Corequisite: Take 1 of the following BI-231-01, BI-231-02.						
							OC	BI-231L-03	333747 W				9-11:50 AM	
								M. PATTERSON		\$0.00	\$0.00	\$0.00	\$0.00	
								Corequisite: Take 1 of the following BI-231-01, BI-231-02.						
							HAR	BI-231L-15	333752 TTH				10:30 -11:50 AM	
								M. PATTERSON		\$0.00	\$0.00	\$0.00	\$0.00	
								Corequisite: Take the following BI-231-15.						
							OC	BI-231L-20	333748 W				6:30 -9:20 PM	
								J. GALLEGOS		\$0.00	\$0.00	\$0.00	\$0.00	
								Corequisite: Take the following BI-231-20.						
							BI-232	HUMAN ANATOMY & PHYSIOLOGY II, 4 CREDITS						
								Lab course covering structure and function of the muscular, cardiovascular, lymphatic, and respiratory systems. Animal organ dissection required.						
								Prerequisites: BI-231 with a C or better						
								Corequisites: BI-232L						
							OC HYB	BI-232-01	333757 T				9-10:50 AM	
								B. KOP		\$504.00	\$52.00	\$55.00	\$611.00	
								This section has in-person lecture and lab requirements and online lecture assignments. Corequisite: Take the following BI-232L-01.						
							BI-232L	HUMAN ANATOMY & PHYSIOLOGY II LAB, 0 CREDIT						
								Lab course for BI-232						
								Corequisites: BI-232						
							OC	BI-232L-01	333760 T				11:30 -2:20 PM	
								J. GALLEGOS		\$0.00	\$0.00	\$0.00	\$0.00	
								Corequisite: Take the following BI-232-01.						
							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	333763 M				1-2:50 PM	
								B. KOP		\$504.00	\$52.00	\$55.00	\$611.00	
								This section has in-person lecture and lab requirements and online lecture assignments. Corequisite: Take the following BI-233L-01.						
							BI-233L	HUMAN ANATOMY & PHYSIOLOGY III LAB, 0 CREDIT						
								Lab course for BI-233						
								Corequisites: BI-233						

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Instructor	Tuition	Fee	Crs. Fee			
OC	BI-233L-01 333766 M M. PATTERSON Corequisite: Take the following BI-233-01.				4-6:50 PM	\$0.00 \$0.00 \$0.00 \$0.00

BI-234 INTRODUCTORY MICROBIOLOGY, 4 CREDITS

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

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

Corequisites: BI-234L

OC LCT	BI-234-01 333768 TTH M. PLUMMER Corequisite: Take the following BI-234L-01.				1-2:20 PM	\$504.00 \$52.00 \$55.00 \$611.00
OC LCT	BI-234-20 333772 TTH M. PLUMMER Corequisite: Take the following BI-234L-20.				6-7:20 PM	\$504.00 \$52.00 \$55.00 \$611.00
ONL LCT	BI-234-40 333770 A. KAPILA Corequisite: Take the following BI-234L-40.					\$504.00 \$52.00 \$170.00 \$726.00

BI-234L INTRODUCTORY MICROBIOLOGY LAB, 0 CREDIT

Lab course for BI-234

Corequisites: BI-234

OC	BI-234L-01 333774 TTH M. PLUMMER Corequisite: Take the following BI-234-01.				2:30 -3:50 PM	\$0.00 \$0.00 \$0.00 \$0.00
OC	BI-234L-20 333778 TTH M. PLUMMER Corequisite: Take the following BI-234-20.				7:30 -8:50 PM	\$0.00 \$0.00 \$0.00 \$0.00
ONL	BI-234L-40 333777 A. KAPILA Corequisite: Take the following BI-234-40.					\$0.00 \$0.00 \$0.00 \$0.00

Business Administration

BA-101Z INTRODUCTION TO BUSINESS, 4 CREDITS

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

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

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

Campus Locations:
HAR: Harmony Community Campus
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Distance Education Notification:
ONL: Online Only
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HYB: In-person plus online work

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
Instructor	Tuition	Fee	Crs. Fee			
ONL	BA-101Z-06 333781 S. PARKER					\$504.00 \$52.00 \$5.00 \$561.00
ONL LCT	BA-101Z-07 333783 M. MOISO Online textbook included in section fees.					\$504.00 \$52.00 \$48.75 \$604.75
ONL LCT	BA-101Z-08 333784 S. RAHN Online textbook included in section fees.					\$504.00 \$52.00 \$48.75 \$604.75

BA-104 BUSINESS MATH, 3 CREDITS

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

Prerequisites: Placement in MTH-020 or higher

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

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

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

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 337725 J. SAN-CLAIRE Online textbook included in section fees.					\$504.00 \$52.00 \$124.99 \$680.99
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BA-119 PROJECT MANAGEMENT PRACTICES, 2 CREDITS

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

ONL LCT	BA-119-01 333792 C. PLOWMAN					\$252.00 \$26.00 \$0.00 \$278.00
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Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
ONL LCT	BA-119-02 333795 C. PLOWMAN					\$252.00	\$26.00	\$0.00		\$278.00

BA-120 PROJECT MANAGEMENT FUNDAMENTALS, 4 CREDITS

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

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

OC HYB	BA-120-01 333797 W S. RAHN					\$504.00	\$52.00	\$0.00		\$556.00
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BA-125 PROJECT MANAGEMENT PREP, 5 CREDITS

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

Prerequisite or Corequisite: BA-120

OC HYB	BA-125-01 333799 T S. RAHN					\$630.00	\$65.00	\$0.00		\$695.00
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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.

REM	BA-128-01 333804 TH S. RAHN					\$504.00	\$52.00	\$20.00		\$576.00
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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

OC HYB	BA-131-01 333805 W F. MEYERS					\$504.00	\$52.00	\$130.00		\$686.00
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Office 2021 version is used. Online textbook included in section fees.

OC HYB	BA-131-02 333807 W F. MEYERS					\$504.00	\$52.00	\$130.00		\$686.00
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Office 2021 version is used. Online textbook included in section fees.

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
OC HYB	BA-131-03 333810 T M. SORRENTINO					\$504.00	\$52.00	\$130.00		\$686.00

Office 2021 version is used. Online textbook included in section fees.

REM	BA-131-04 333811 M J. AMAN					\$504.00	\$52.00	\$130.00		\$686.00
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Office 2021 version is used. Online textbook included in section fees.

ONL	BA-131-05 333813 D. HEINIG					\$504.00	\$52.00	\$130.00		\$686.00
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Office 2021 version is used. Online textbook included in section fees.

ONL	BA-131-06 333814 B. FORNEY					\$504.00	\$52.00	\$130.00		\$686.00
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Office 2021 version is used. Online textbook included in section fees.

ONL	BA-131-07 333815 K. HEINIG					\$504.00	\$52.00	\$130.00		\$686.00
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Office 2021 version is used. 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 333817 J. HERNANDEZ					\$504.00	\$52.00	\$52.80		\$608.80
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Online textbook included in section 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 337745 S. PARKER					\$504.00	\$52.00	\$0.00		\$556.00
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BA-207 PREPPING FOR BUSINESS SUCCESS, 4 CREDITS

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

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

ONL LCT	BA-207-01 337563 C. CHATTERTON					\$504.00	\$52.00	\$0.00		\$556.00
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Students must be in second year of their program to register.

BA-211Z PRINCIPLES OF FINANCIAL ACCOUNTING, 4 CREDITS

Campus Locations:

HAR: Harmony Community Campus
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ESPAÑOL: Enseñado en español

LCT: Low-Cost Text

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		Instructor		Tuition Fee	Crs. Fee	

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	333818 M			9-11:50 AM	
	I. SETO	\$504.00	\$52.00	\$60.00		\$616.00
	Online textbook included in section fees.					
ONL	BA-211Z-02	333825				
	J. SAN-CLAIRE	\$504.00	\$52.00	\$60.00		\$616.00
	Online textbook included in section fees.					
HAR HYB	BA-211Z-03	337726 S			9-11:50 AM	
	I. SETO	\$504.00	\$52.00	\$60.00		\$616.00
	Online textbook included in section fees.					

BA-213Z PRINCIPLES OF MANAGERIAL ACCOUNTING, 4 CREDITS

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

Prerequisites: BA-211Z

OC HYB	BA-213Z-01	333831 M			1-3:50 PM	
	I. SETO	\$504.00	\$52.00	\$124.99		\$680.99
	Online textbook included in section fees.					
ONL	BA-213Z-02	337566				
	J. SAN-CLAIRE	\$504.00	\$52.00	\$124.99		\$680.99
	Online textbook included in section fees.					

BA-217 BUDGETING FOR MANAGERS, 3 CREDITS

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

Prerequisites: BA-211Z
Recommended Prerequisites: BA-213Z or some experience in budgeting

ONL LCT	BA-217-01	333833				
	T. FRANK	\$378.00	\$39.00	\$5.00		\$422.00

BA-218 PERSONAL FINANCE, 4 CREDITS

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

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

ONL	BA-218-01	333836				
	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

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		Instructor		Tuition Fee	Crs. Fee	

ONL	BA-223-01	333838				
	S. PARKER	\$504.00	\$52.00	\$5.00		\$561.00
ONL	BA-223-02	337746				
	C. CHATTERTON	\$504.00	\$52.00	\$5.00		\$561.00

BA-224 HUMAN RESOURCE MANAGEMENT, 4 CREDITS

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

ONL LCT	BA-224-01	333843				
	M. MOISO	\$504.00	\$52.00	\$48.75		\$604.75
	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	333846				
	M. MOISO	\$504.00	\$52.00	\$58.43		\$614.43
	Online textbook included in section fees.					
ONL	BA-226-02	333848				
	M. MOISO	\$504.00	\$52.00	\$58.43		\$614.43
	Online textbook included in section fees.					

BA-228 COMPUTERIZED ACCOUNTING, 3 CREDITS

An introductory, hands-on experience with computer applications that are used for accounting, including transaction entry for a full accounting cycle, from business setup through month-end close. This course features instruction for Quickbooks Online.

Prerequisites: BA-111 or BA-211Z

OC LCT	BA-228-01	333849 TH			1-3:50 PM	
	T. FRANK	\$378.00	\$39.00	\$111.25		\$528.25
	Online textbook included in section fees.					
ONL	BA-228-02	333850				
	T. FRANK	\$378.00	\$39.00	\$111.25		\$528.25
	Online textbook included in section fees.					

BA-249 RETAILING, 3 CREDITS

Provides an understanding of the types of retail businesses, strategies, operations, formats and environments through which retailing is carried out, including a multi-disciplinary approach to understand the structure of effective retail management.

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

ONL	BA-249-01	337565				
	T. FRANK	\$378.00	\$39.00	\$5.00		\$422.00

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	333851				
	D. HEINIG	\$378.00	\$39.00	\$43.75		\$460.75
	Online textbook included in section fees.					

BA-270 SOCIAL MEDIA MARKETING, 4 CREDITS

Other Coding Translations:
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ESPAÑOL: Enseñado en español
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	Instructor		Tuition	Fee	Crs. Fee	

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	333854				
	C. CHATTERTON		\$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 LCT	BA-280-01	333855				
	S. PARKER		\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

ONL	BA-280-02	333860				
	B. FORNEY		\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

BA-285 HUMAN RELATIONS IN BUSINESS, 4 CREDITS

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

ONL	BA-285-01	333861				
	S. PARKER		\$504.00	\$52.00	\$5.00	\$561.00

ONL	BA-285-02	333862				
	J. HERNANDEZ		\$504.00	\$52.00	\$48.75	\$604.75
	Online textbook included in section fees.					

Business Technology

BT-120 PERSONAL KEYBOARDING, 2 CREDITS

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

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

ONL	BT-120-02	333866				
	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	333868				
	S. SIMMONS		\$126.00	\$13.00	\$10.00	\$149.00

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

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	Instructor		Tuition	Fee	Crs. Fee	

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	333872				
	S. SIMMONS		\$252.00	\$26.00	\$10.00	\$288.00

ONL	BT-122-02	333876				
	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 LCT	BT-124-01	333878				
	S. SIMMONS		\$378.00	\$39.00	\$10.00	\$427.00

BT-160 WORD I, 3 CREDITS

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

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

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

ONL	BT-160-01	333882				
	F. MEYERS		\$378.00	\$39.00	\$106.49	\$523.49
	Office 2021 version is used. Online textbook included in section fees.					

BT-262 INTEGRATED PROJECTS, 4 CREDITS

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

Prerequisites: BA-131 and BT-160

ONL	BT-262-01	333888				
	B. FORNEY		\$504.00	\$52.00	\$53.75	\$609.75

Office 2021 version is used. Online textbook included in section fees.

Chemistry

CH-104 INTRODUCTORY CHEMISTRY, 5 CREDITS

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

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total	Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
	Instructor		Tuition	Fee	Crs. Fee			Instructor		Tuition	Fee	Crs. Fee	
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							CH-112L CHEMISTRY FOR HEALTH SCIENCES LAB, 0 CREDIT Lab course for CH-112 Corequisites: CH-112						
OC LCT	CH-104-01	333786 MW			2-3:20 PM		OC	CH-112L-01	333803 W			1-3:50 PM	
	G. BURGESS	\$630.00	\$65.00	\$50.00	\$745.00			N. DAS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take the following CH-104S-01, CH-104L-01.								Corequisite: Take the following CH-112-01.				
ONL LCT	CH-104-40	333789					OC	CH-112L-02	337667 TH			9-11:50 AM	
	G. BURGESS	\$630.00	\$65.00	\$50.00	\$745.00			S. MCDONALD	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take the following CH-104S-40, CH-104L-40.								Corequisite: Take the following CH-112-01.				
CH-104L INTRODUCTORY CHEMISTRY LAB, 0 CREDIT Lab course for CH-104 Corequisites: CH-104 and CH-104S							CH-112L-15 333806 W S. MCDONALD \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take the following CH-112-15.						
OC	CH-104L-01	333790 TBA				\$0.00	OC	CH-112L-20	337666 W			6-8:50 PM	
	TBA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		D. PAUL	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Open Lab: Students must spend 3 hours per week in Chemistry Tutorial Lab. Lab Hours: Wed: 9 AM-4PM, Thursday: 9 AM-8 PM, & Friday: 9 AM-4 PM. Corequisite: Take the following CH-104-01, CH-104S-01.								Corequisite: Take the following CH-112-20.				
OC	CH-104L-40	333793 TBA				\$0.00	ONL	CH-112L-40	333808				
	TBA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		D. PAUL	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Open Lab: Students must spend 3 hours per week in Chemistry Tutorial Lab. Lab Hours: Wed: 9 AM-4 PM, Thursday: 9 AM-8 PM, & Friday: 9 AM-4 PM Corequisite: Take the following CH-104-40, CH-104S-40.								Corequisite: Take the following CH-112-40.				
CH-104S INTRODUCTORY CHEMISTRY SEMINAR, 0 CREDIT Seminar course for CH-104 Corequisites: CH-104 and CH-104L							CH-114 CHEMISTRY IN ART, 4 CREDITS An introductory laboratory science course designed specifically for the non-science student. Offers a broad, non-quantitative descriptive survey of scientific principles relevant to art and art-related topics such as light, color, pigments, dyes, solubility, acidity, oxidation, and polymers. Emphasizes an interdisciplinary perspective on chemistry. Corequisites: CH-114L Recommended Prerequisites: WRD-090 or placement in WRD-098						
OC	CH-104S-01	333794 TH			1-1:50 PM	\$0.00	HAR LCT	CH-114-15	333809 TTH			9-10:20 AM	
	G. BURGESS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		E. FRANCIS	\$504.00	\$52.00	\$50.00	\$606.00	\$606.00
	Corequisite: Take the following CH-104-01, CH-104L-01.								Corequisite: Take the following CH-114L-15.				
OC	CH-104S-40	333796 TH			2-2:50 PM	\$0.00	CH-114L CHEMISTRY IN ART LAB, 0 CREDIT Lab course for CH-114 Corequisites: CH-114						
	G. BURGESS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		HAR	CH-114L-15	333812 TTH		10:30 -11:50 AM	
	Corequisite: Take the following CH-104-40, CH-104L-40.								E. FRANCIS	\$0.00	\$0.00	\$0.00	\$0.00
									Corequisite: Take the following CH-114-15.				
CH-112 CHEMISTRY FOR HEALTH SCIENCES, 4 CREDITS One-term preparatory chemistry course for students who want to take BI-231 and/or BI-234. Includes measurement; atomic structure; periodic table; bonding; nomenclature; heat; molecular and ionic interactions in solids; liquids and solutions; chemical reactions including acid-base; organic chemistry; and biochemistry. Corequisites: CH-112L Prerequisites: MTH-065 or MTH-098 with a C or better or placement in MTH-095 Prerequisites: WRD-090 or placement in WRD-098 Recommended Corequisite: BI-112							CH-150 PREPARATORY CHEMISTRY, 4 CREDITS One term preparatory course for students who must take the general chemistry sequence (CH-221/222/223) but have no chemistry background. Corequisites: CH-150S Prerequisites: MTH-095 or placement in MTH-111Z						
OC	CH-112-01	333798 MW			10-11:20 AM	\$606.00	OC	CH-150-01	333816 MWF			10-10:50 AM	
	S. MCDONALD	\$504.00	\$52.00	\$50.00	\$606.00	\$606.00		N. DAS	\$504.00	\$52.00	\$20.00	\$576.00	\$576.00
	Corequisite: Take 1 of the following CH-112L-01, CH-112L-02.								Corequisite: Take the following CH-150S-01.				
ONL	CH-112-15	333800				\$606.00	ONL	CH-150-02	333819				
	S. MCDONALD	\$504.00	\$52.00	\$50.00	\$606.00	\$606.00		D. MYERS	\$504.00	\$52.00	\$20.00	\$576.00	\$576.00
	Corequisite: Take the following CH-112L-15.								Corequisite: Take the following CH-150S-02.				
ONL	CH-112-20	337665				\$606.00	ONL	CH-150-03	333820				
	D. PAUL	\$504.00	\$52.00	\$50.00	\$606.00	\$606.00		X. DONG	\$504.00	\$52.00	\$20.00	\$576.00	\$576.00
	Corequisite: Take the following CH-112L-20.								This section includes an in-person seminar requirement. Corequisite: Take the following CH-150S-03.				
ONL	CH-112-40	333801				\$606.00	CH-150S PREPARATORY CHEMISTRY SEMINAR, 0 CREDIT Seminar course for CH-150 Corequisites: CH-150						
	D. PAUL	\$504.00	\$52.00	\$50.00	\$606.00	\$606.00							
	Corequisite: Take the following CH-112L-40.												

Campus Locations:
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HYB: In-person plus online work

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
oc	CH-150S-01 333821 TH 9-9:50 AM N. DAS \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take the following CH-150-01.									
oc	CH-150S-02 333822 W 2-2:50 PM D. MYERS \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take the following CH-150-02.									
oc	CH-150S-03 333823 TH 11-11:50 AM X. DONG \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take the following CH-150-03.									

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 HYB	CH-221-01 333824 MWF 10-10:50 AM D. MYERS \$630.00 \$65.00 \$45.00 \$740.00 Corequisite: Take 2 of the following CH-221S-01, CH-221S-02, CH-221L-01, CH-221L-02.									
oc	CH-221-20 333827 T 6-8:50 PM J. DU BOULAY \$630.00 \$65.00 \$45.00 \$740.00 This class has an in-person lab requirement. Corequisite: Take 2 of the following CH-221S-20, CH-221L-20.									
ONL	CH-221-40 333828 J. DU BOULAY \$630.00 \$65.00 \$45.00 \$740.00 This section has an in-person lab requirement and seminar requirement. Corequisite: Take the following CH-221L-40, CH-221S-40.									

CH-221L GENERAL CHEMISTRY LAB, 0 CREDIT

Lab course for CH-221

Corequisites: CH-221 and CH-221S

oc	CH-221L-01 333829 TH 9-11:50 AM D. MYERS \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take 2 of the following CH-221-01, CH-221S-01, CH-221S-02.									
oc	CH-221L-02 333830 TH 1-3:50 PM D. MYERS \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take 2 of the following CH-221-01, CH-221S-01, CH-221S-02.									
oc	CH-221L-20 333832 TH 7-9:50 PM J. DU BOULAY \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take 2 of the following CH-221-20, CH-221S-20.									
oc	CH-221L-40 333834 F 2-4:50 PM J. DU BOULAY \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take the following CH-221-40, CH-221S-40.									

CH-221S GENERAL CHEMISTRY SEMINAR, 0 CREDIT

Seminar course for CH-221

Corequisites: CH-221 and CH-221L

oc	CH-221S-01 333835 W 11-11:50 AM D. MYERS \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take 2 of the following CH-221-01, CH-221L-01, CH-221L-02.									
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Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
oc	CH-221S-02 333837 W 1-1:50 PM D. MYERS \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take 2 of the following CH-221-01, CH-221L-01, CH-221L-02.									
oc	CH-221S-20 333839 TH 6-6:50 PM J. DU BOULAY \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take 2 of the following CH-221-20, CH-221L-20.									
oc	CH-221S-40 333840 F 1-1:50 PM J. DU BOULAY \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take the following CH-221-40, CH-221L-40.									

CH-241 ORGANIC CHEMISTRY I, 5 CREDITS

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

Prerequisites: CH-223

Corequisites: CH-241L and CH-241S

oc	CH-241-01 333841 MW 1-2:20 PM E. FRANCIS \$630.00 \$65.00 \$50.00 \$745.00 Corequisite: Take the following CH-241L-01, CH-241S-01.									
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CH-241L ORGANIC CHEMISTRY I LAB, 0 CREDIT

Lab course for CH-241

Corequisites: CH-241 and CH-241S

oc	CH-241L-01 333842 F 9-11:50 AM E. FRANCIS \$0.00 \$0.00 \$0.00 \$0.00 Corequisite: Take the following CH-241-01, CH-241S-01.									
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CH-241S ORGANIC CHEMISTRY I SEMINAR, 0 CREDIT

Seminar course for CH-241

Corequisites: CH-241 and CH-241L

ONL	CH-241S-01 333844 E. FRANCIS \$0.00 \$0.00 \$0.00 \$0.00 This section has in-person lecture and lab requirements. Corequisite: Take the following CH-241L-01, CH-241-01.									
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College and Career Guidance**EL-103 TAKING EFFECTIVE NOTES, 1 CREDIT**

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

Prerequisites: WRD-080 or placement in WRD-090

ONL LCT	EL-103-13 333952 B. MALONEY \$126.00 \$13.00 \$0.00 \$139.00									
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EL-111 COLLEGE STUDY SKILLS, 3 CREDITS

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

Prerequisites: WRD-080 or placement in WRD-090

OC HYB LCT	EL-111-01 333953 T 1-2:20 PM B. MALONEY \$378.00 \$39.00 \$15.00 \$432.00									
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HD-102 SERVICE LEARNING EXPERIENCE, 1-6 CREDITS

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

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

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

HD-121 COLLEGE SUCCESS, 3 CREDITS

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

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

OC LCT	HD-121-02	333928	MTWTHF	10-11:50 AM		
	E. PFEIFER	\$378.00	\$39.00	\$0.00		\$417.00
	Meets: 9/9-9/27. Required: Student Petition.					

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

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

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

HD-140 CAREER EXPLORATION, 3 CREDITS

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

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

HD-144 ASSERTIVENESS, 1 CREDIT

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

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

HD-145 STRESS MANAGEMENT, 1 CREDIT

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

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

HD-154 BUILDING SELF-CONFIDENCE, 1 CREDIT

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

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ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

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

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

HD-220 INTRODUCTION TO STUDENT LEADERSHIP, 2 CREDITS

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

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

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

Communication Studies

COMM-100Z INTRODUCTION TO COMMUNICATION, 4 CREDITS

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

OC LCT	COMM-100Z-01	333221	MW	3-4:50 PM		
	L. HANN	\$504.00	\$52.00	\$0.00		\$556.00

OC LCT	COMM-100Z-02	333225	TTH	10-11:50 AM		
	L. HANN	\$504.00	\$52.00	\$0.00		\$556.00

OC LCT	COMM-100Z-03	337582	TTH	1-2:50 PM		
	L. HANN	\$504.00	\$52.00	\$0.00		\$556.00

COMM-111Z PUBLIC SPEAKING, 4 CREDITS

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

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

Recommended Prerequisite or Corequisite: FYE-101

OC LCT	COMM-111Z-01	333226	MW	8-9:50 AM		
	J. SMITH	\$504.00	\$52.00	\$20.00		\$576.00

REM LCT	COMM-111Z-02	333229	MW	8-9:50 AM		
	K. HUGHES	\$504.00	\$52.00	\$20.00		\$576.00

OC LCT	COMM-111Z-03	333231	TTH	8-9:50 AM		
	K. HUGHES	\$504.00	\$52.00	\$20.00		\$576.00

OC LCT	COMM-111Z-05	333235	MW	10-11:50 AM		
	J. SMITH	\$504.00	\$52.00	\$20.00		\$576.00

OC LCT	COMM-111Z-06	333238	MW	10-11:50 AM		
	J. HULT	\$504.00	\$52.00	\$20.00		\$576.00

REM LCT	COMM-111Z-07	333241	MW	10-11:50 AM		
	K. HUGHES	\$504.00	\$52.00	\$20.00		\$576.00

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
	Instructor		Tuition	Fee	Crs. Fee	
OC LCT	COMM-111Z- 333242 TTH				10-11:50 AM	
	K. HUGHES		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	COMM-111Z- 333245 TTH				10-11:50 AM	
	TBA		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	COMM-111Z- 333247 MW				1-2:50 PM	
	TBA		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	COMM-111Z- 333250 TTH				1-2:50 PM	
	TBA		\$504.00	\$52.00	\$20.00	\$576.00
OC LCT	COMM-111Z- 333252 T				6-9:50 PM	
	K. DOSS		\$504.00	\$52.00	\$20.00	\$576.00
HAR LCT	COMM-111Z- 333253 TTH				10-11:50 AM	
	J. SMITH		\$504.00	\$52.00	\$20.00	\$576.00
HAR LCT	COMM-111Z- 333256 MW				6-7:50 PM	
	J. NETZER		\$504.00	\$52.00	\$20.00	\$576.00

COMM-126 INTRO TO COMMUNICATION, GENDER, AND SEXUALITY, 4 CREDITS

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

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

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

COMM-140 INTRODUCTION TO INTERCULTURAL COMMUNICATION, 4 CREDITS

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

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

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

OC HYB LCT	COMM-140-01 333262 F				10-11:50 AM	
	TBA					
	K. HUGHES		\$504.00	\$52.00	\$0.00	\$556.00

Required: Student Petition. Students in this course will participate in the Ireland Study Abroad program Dec 8-20, 2024. Additional costs of program are not included in course fee.

COMM-212 MASS MEDIA & SOCIETY, 4 CREDITS

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

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

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
	Instructor		Tuition	Fee	Crs. Fee	
Recommended Prerequisites: WRD-098 or placement in WR-121Z						
OC LCT	COMM-212-01 333264 MW				10-11:50 AM	
	M. JONES		\$504.00	\$52.00	\$10.00	\$566.00
COMM-218Z	INTERPERSONAL COMMUNICATION, 4 CREDITS					
COMM-218Z increases the knowledge and use of competent communication skills to better understand oneself, others, and the role of communication in interpersonal relationships.						
Recommended Prerequisites: WRD-098 or placement in WR-121Z						
OC LCT	COMM-218Z- 333268 MW				10-11:50 AM	
	M. WILLIAMS		\$504.00	\$52.00	\$0.00	\$556.00
HAR	COMM-218Z- 333272 TTH				1-2:50 PM	
	J. SMITH		\$504.00	\$52.00	\$0.00	\$556.00
COMM-280	SPEECH/CWE, 2-6 CREDITS					
Cooperative work experience. Provides students with on-the-job experience in the field of communications. Required: Student Petition.						
Corequisites: CWE-281						
ONL LCT	COMM-280-01 333274					
	K. HUGHES		\$756.00	\$78.00	\$45.00	\$879.00V
Required: Student Petition.						

Computer Science

CS-120 SURVEY OF COMPUTING, 4 CREDITS

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

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

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

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

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

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

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

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

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LCT: Low-Cost Text

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

Begin exploring the power of server-side JavaScript using Node.JS, NPM, and Express. Students will: use server-side JavaScript to implement common packages and bundle their own applications for consumer use; build custom web server applications to respond directly to HTTP requests; create, query, and manage NoSQL databases; and create views to combine user requests, database data, and static content into responsive, data-driven web applications.

Prerequisites: CS-133J

OC HYB	CS-233W-01	337728	W			1-2:50 PM
			M			1-2:50 PM
	D. CARINO	\$504.00	\$52.00	\$0.00	\$556.00	
	Section meets Mondays remote via Zoom from 1-3:50pm.					
	Section meets in-person on campus on Wednesdays from 1-3:50pm.					

CS-240L LINUX ADMINISTRATION I, 4 CREDITS

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

Prerequisites: CS-140

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

CS-260 DATA STRUCTURES, 4 CREDITS

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

Prerequisites: CS-162

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

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

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

Corequisites: CWE-281

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

Computer-Aided Drafting Technology

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

CDT-102 SKETCHING & PROBLEM SOLVING, 3 CREDITS

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

oc	CDT-102-01	333780	TTH			12-2:50 PM
	A. FOUHY	\$378.00	\$39.00	\$153.75	\$570.75	

CDT-223 INVENTOR FUNDAMENTALS, 3 CREDITS

Campus Locations:

HAR: Harmony Community Campus
OC: Oregon City Campus
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Distance Education Notification:

ONL: Online Only
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HYB: In-person plus online work

Other Coding Translations:

TBA: To be arranged: contact department first class
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ESPAÑOL: Enseñado en español

LCT: Low-Cost Text

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

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

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

REM	CDT-223-01	333782	MW			4:30 -7:20 PM
	M. ROTUNDO	\$378.00	\$39.00	\$153.75	\$570.75	

Cooperative Work Experience

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

CWE-281 COOPERATIVE WORK EXPERIENCE SEMINAR, 0 CREDIT

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

Corequisites: Program specific CWE course

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

Criminal Justice

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

CJA-101 CRIMINOLOGY, 4 CREDITS

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

HAR HYB LCT	CJA-101-01	333155	M			1-2:50 PM
	T. MUSGRAVE	\$504.00	\$52.00	\$0.00	\$556.00	
ONL LCT	CJA-101-02	333156				
	TBA	\$504.00	\$52.00	\$0.00	\$556.00	

CJA-110 INTRODUCTION TO LAW ENFORCEMENT, 3 CREDITS

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

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

HAR HYB	CJA-110-01	333158 M			9-10:20 AM	
	J. JONES	\$378.00	\$39.00	\$20.00		\$437.00

CJA-122 CRIMINAL LAW, 4 CREDITS

This course examines the elements, purpose and functions of criminal, traffic, juvenile and liquor laws. Studies historical development, philosophy of law, and constitutional provisions. Examines definition and classification of crime, application of administration of justice, legal research, study of case law, methodology and concepts of law as a social force.

HAR LCT	CJA-122-01	333159 T			6-9:20 PM	
	S. HEALY	\$504.00	\$52.00	\$0.00		\$556.00
ONL LCT	CJA-122-02	333160				
	L. JOCHNOWITZ	\$504.00	\$52.00	\$0.00		\$556.00

CJA-206 TRAUMA INFORMED PRACTICES, 3 CREDITS

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

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

ONL LCT	CJA-206-01	333161				
	C. BAKER	\$378.00	\$39.00	\$0.00		\$417.00

CJA-210 CRIMINAL INVESTIGATION I, 3 CREDITS

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

Prerequisites: CJA-110 with a C or better

ONL LCT	CJA-210-01	333162				
	T. MUSGRAVE	\$378.00	\$39.00	\$0.00		\$417.00

CJA-214 INTIMATE PARTNER VIOLENCE, 3 CREDITS

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

Prerequisites: CJA-203 or HS-100

ONL LCT	CJA-214-01	333163				
	T. BOYLE- GALESTIANTZ	\$378.00	\$39.00	\$0.00		\$417.00

CJA-223 CRIMINAL JUSTICE ETHICS, 3 CREDITS

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

HAR HYB	CJA-223-01	333164 M			10:30 -11:50 AM	
	J. JONES	\$378.00	\$39.00	\$0.00		\$417.00

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Instructor	Tuition	Fee	Crs. Fee			

CJA-252 INTRODUCTION TO RESTORATIVE JUSTICE, 3 CREDITS
 Provides a critical introduction to restorative justice. Covers fundamental values and principles of restorative justice, and the experience and interests of key stakeholders (victims, offenders, communities, and systems).

ONL LCT	CJA-252-01	333165				
	G. RONNING	\$378.00	\$39.00	\$0.00		\$417.00

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

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

Prerequisites: CJA-170

Corequisites: CWE-281

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

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

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

Prerequisites: CJA-170 and CJA-280

Corequisites: CWE-281

ONL LCT	CJA-281-01	333167				
	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 healthsciences@clackamas.edu

DA-101 DENTAL RADIOLOGY I, 2 CREDITS

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

Required: Acceptance into Dental Assistant program

Corequisites: DA-101L

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

DA-101L DENTAL RADIOLOGY I LAB, 1 CREDIT

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

Required: Acceptance into Dental Assistant program

Corequisites: DA-101

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

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total	Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total	
	Instructor	Tuition	Fee		Crs. Fee			Instructor	Tuition	Fee		Crs. Fee		
HAR HYB	DA-101L-02 333177 T M. BUTKOVICH E. GORDON Required: Student Petition.	\$126.00	\$13.00		\$0.00	\$139.00	DA-110 CLINICAL PRACTICUM I, 1 CREDIT Clinical practicum begins in the seventh week of class. Students begin to apply basic dental assisting procedures taught in weeks one through six. OSHA, hazard communication and infection control are followed for student and patient safety. A minimum of 8 supervised unpaid hours per week is required for term one practicum. Students will participate in one seminar held prior to clinical practicum. Required: Student Petition. Required: Acceptance into Dental Assistant program	HAR HYB	DA-110-01 333184 W K. HIATT Required: Student Petition. Meets: 11/13, 11/20, 11/27, 12/4, 12/11. Mandatory orientation on Wednesday, October 23, 2024 from 9 AM - Noon on the Harmony Campus.	\$126.00	\$13.00		\$195.00	\$334.00
DA-104 CLINICAL PROCEDURES I, 2 CREDITS Discussion in the practice of patient care including the collection of patient medical and dental histories and maintenance of accurate treatment records. Explores the history of dentistry, dental ethics, law, and HIPAA. The dental healthcare team, dental office design and the dental profession will also be discussed. Required: Student Petition. Required: Acceptance into Dental Assistant program Corequisites: DA-104L	ONL	DA-104-01 333178 M. BUTKOVICH Required: Student Petition.	\$252.00	\$26.00	\$225.00	\$503.00	DA-115 DENTAL SCIENCE, 2 CREDITS Introduction and general study of anatomy, physiology, and oral pathology. An in-depth level course of study in oral anatomy, histology and embryology. Introduction to charting will also be covered. Required: Student Petition. Required: Acceptance into Dental Assistant program	ONL	DA-115-01 333185 R. MASCARENHAS Required: Student Petition.	\$252.00	\$26.00	\$125.00	\$403.00	
DA-104L CLINICAL PROCEDURES I LAB, 1 CREDIT This course prepares the student for basic chairside assisting and general procedures. Application of essential skills in seating and dismissing patients, ergonomics, taking and recording vital signs, and infection control are taught and practiced in a dental laboratory setting. Required: Student Petition. Required: Acceptance into Dental Assistant program Corequisites: DA-104	HAR HYB	DA-104L-01 333179 TH A. SLUITER Required: Student Petition.	\$126.00	\$13.00	\$0.00	\$139.00	DA-125 DENTAL INFECTION CONTROL, 2 CREDITS This course covers the introduction and general study of microbiology, major groups of microorganisms, viral and bacterial diseases. Disease transmission, infection prevention, disinfection and instrument processing techniques will also be covered. An in-depth level of the Bloodborne Pathogens Standards and Hazard Communication will be taught and integrated throughout the didactic, preclinical, laboratory and clinical course of study. Required: Student Petition. Required: Acceptance into Dental Assistant program	HAR HYB	DA-125-01 333186 TH K. HIATT Required: Student Petition.	\$252.00	\$26.00	\$240.00	\$518.00	
HAR HYB	DA-104L-02 333180 TH A. SLUITER Required: Student Petition.	\$126.00	\$13.00	\$0.00	\$139.00	DA-107 DENTAL MATERIALS I, 2 CREDITS This course is an in-depth level of instruction in the composition and manipulation of dental restorative materials, and dental cements. Examination of general dentistry and chairside assisting with direct permanent restorations such as amalgam and composite will also be covered. Required: Student Petition. Required: Acceptance into Dental Assistant program Corequisites: DA-107L	HAR HYB	DA-107-01 333181 F K. HIATT Required: Student Petition.	\$252.00	\$26.00	\$260.00	\$538.00		
DA-107L DENTAL MATERIALS I LAB, 1 CREDIT This course covers the application of the essential skills necessary in assisting with amalgam and composite restorations. Covers tray-set-ups, pre and post-operative instructions, instrument transfer, and oral evacuation with amalgam and composite procedures. The identification and application of dental cements used in general dentistry will also be covered. Includes manipulation, storage and disposal of hazardous dental materials and cements. Required: Student Petition. Required: Acceptance into Dental Assistant program Corequisites: DA-107	HAR HYB	DA-107L-01 333182 F M. BUTKOVICH Required: Student Petition.	\$126.00	\$13.00	\$0.00	\$139.00	OC LCT	DMC-100-01 333149 MW M. DEVENDORF	\$378.00	\$39.00	\$30.00	\$447.00		
HAR HYB	DA-107L-02 333183 F M. BUTKOVICH Required: Student Petition.	\$126.00	\$13.00	\$0.00	\$139.00	DMC-104 DIGITAL VIDEO EDITING, 4 CREDITS Students will utilize video editing skills. These skills will include logging and capturing raw video, assembly of shots on a time line, and the use of effects in the creation of a final video sequence. Along with text generation, audio balancing, audio sweetening and video compositing, this course will offer students an in-depth overview of the video editing process. Course will explore the history of film editing and the theory behind various forms of film and video editing. Lab component included. Recommended Prerequisites: WRD-090 or placement in WR-121Z	OC LCT	DMC-104-01 333845 MW M. DEVENDORF	\$504.00	\$52.00	\$106.00	\$662.00		

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DMC-106 ANIMATION & MOTION GRAPHICS I, 4 CREDITS
 Introduction to the fundamentals of animation and motion graphics design. This project-based course will explore experimental and new technological approaches to creating digital effects and animation for video and web-based applications. Students will learn the basics of industry standard 3D and compositing software to create successful VFX, 3D Animation, and Motion Graphics projects.

Recommended Prerequisites: DMC-104 or DMC-225

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

DMC-109 INTRODUCTION TO STOP MOTION ANIMATION, 4 CREDITS
 Introduces basic stop motion animation tools, materials, techniques and elements of storyboarding, scripting, narrative development, compositing, special effects and audio integration into a final group film. Assignments include character development, rigging, set creation, photography, video compositing, and audio recording and synching. Uses digital cameras and industry-standard stop motion software.

Recommended Prerequisites: DMC-106 and DMC-225

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

DMC-147 MUSIC, SOUND & MOVIE MAKING, 1 CREDIT
 Presents the basic components of designing, shooting, recording audio, and post production of movies as well as the history and theory that has led to contemporary film production.

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

DMC-225 COMPUTER GRAPHICS I, 4 CREDITS
 Introduction to the use of digital graphics programs. Photo manipulation, illustration, and compositing techniques will be explored. Design principles and creative composition will be emphasized. Historical and contemporary issues related to graphic design aesthetics will be considered.

Recommended Prerequisites: ART-115

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

DMC-247 SOUND FOR MEDIA, 3 CREDITS
 Introduction to sound as related to film making, animation, and video games. Students will have the opportunity to create and assemble sound for media into a finished product. Explores the basic components of commercial film/video, animation, and game production as they relate to sound.

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

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

DMC-264 DIGITAL FILMMAKING, 4 CREDITS
 Explores the process of translating a written script into a digital film via pre-production, lighting, shooting, and post-video production.

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

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

DMC-280 DIGITAL MEDIA COMMUNICATIONS/CWE, 3-6 CREDITS
 Cooperative work experience. Provides students with on-the-job work experience in the field of media studies. Required: Student Petition.

Corequisites: CWE-281

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

Economics

EC-201 PRINCIPLES OF ECONOMICS: MICRO, 4 CREDITS
 Focuses on microeconomic theory dealing with the behavior of individuals and profit-maximizing firms in market structures with varying degrees of competition. Coverage includes price theory, international trade, consumer behavior, the theory of the firm, and the potential role of government in affecting market outcomes.

Prerequisites: MTH-020 or placement in MTH-098
Prerequisite or Corequisite: WRD-098 or placement in WR-121Z

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

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

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

EC-202 PRINCIPLES OF ECONOMICS: MACRO, 4 CREDITS
 Introduction to economic theory, policy, and institutions. Focuses on macroeconomic theory, money, unemployment, inflation, fiscal and monetary policies, international finance, and economic growth.

Prerequisites: MTH-020 or placement in MTH-050 or MTH-060
Prerequisite or Corequisite: WRD-098 or placement in WR-121Z

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

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

Education

ECE-150 INTRODUCTION TO EARLY CHILDHOOD EDUCATION & FAMILY STUDIES, 4 CREDITS
 Focuses on the history of early childhood education and the prominent theorists that have significantly contributed to the field. The types of programs that serve young children, birth-age 8, and their families will be examined. State and national standards in early childhood education and family studies will be explored.

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

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

Other Coding Translations:
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	Instructor		Tuition	Fee	Crs. Fee			Instructor		Tuition	Fee	Crs. Fee	

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

REM LCT ESPAÑOL	ECE-150ES-01 333906 S				9-10:50 AM	
	L. JAMES	\$504.00	\$52.00	\$0.00	\$556.00	
	La clase se reúne seis sábados por Zoom (10/05, 10/19, 11/02, 11/16, & 12/07).					

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

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

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

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

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

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

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

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

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

Prerequisites: ECE-121

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

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

Diseñado para ayudar a los estudiantes a explorar con mayor profundidad la observación y la orientación de los niños desde el nacimiento hasta el tercer grado dentro del entorno del aula. En este curso más avanzado, el estudiante se enfoca en técnicas adicionales de observación y orientación para observar grupos de niños y aborda comportamientos desafiantes y otros problemas dentro del entorno de la primera infancia. Se explora en profundidad el papel del profesional en el uso de la observación para promover su propio desarrollo y ayudar en el progreso de los niños.

Prerequisites: ECE-121ES

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

REM LCT ESPAÑOL	ECE-221ES-02 333918 M				6-7:50 PM	
	Y. SANCHEZ	\$504.00	\$52.00	\$0.00	\$556.00	
	La clase se reúne cinco Lunes por Zoom (9/30, 10/14, 10/28, 11/18, y 12/2 de 6:00PM a 7:50PM).					

ECE-240ES AMBIENTES Y PLANIFICACIÓN CURRICULAR, 4 CREDITS

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

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

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

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

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

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

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

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

Prerequisites: ECE-240ES

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

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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
REM LCT	INSTRUCTOR	Tuition	Fee	Crs. Fee		
REM LCT ESPAÑOL	ECE-241ES-02333937 M				6-7:50 PM	
	R. TORRES	\$504.00	\$52.00	\$0.00		\$556.00
	La clase se reúne cinco Lunes por Zoom (10/7, 10/21, 11/4, 11/18, y 12/2 de 6:00PM- 7:50PM).					

ECE-246ES RELACIONES ENTRE LA ESCUELA, LA FAMILIA Y LA COMUNIDAD, 4 CREDITS

Este curso se concentra en el conocimiento y las habilidades para trabajar eficazmente con las familias y la comunidad y con otros profesionales en educación infantil (6 semanas de edad hasta tercer grado). El énfasis está en construir y mantener relaciones positivas para fomentar la cooperación y el respeto mutuo entre los profesionales en la primera infancia y las familias de los niños con quienes trabajan.

REM LCT	Course No	Crs Reg.	Days	Time	Total
ESPAÑOL	ECE-246ES-01 333938 W			6-7:50 PM	
	B. MARRON	\$504.00	\$52.00	\$0.00	\$556.00
	La clase se reúne cinco Miercoles por Zoom (10/2, 10/16, 10/30, 11/13, y 12/4 de 6:00 PM to 7:50PM).				

ECE-280 EARLY CHILDHOOD EDUCATION/CWE, 3 CREDITS

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

Corequisites: CWE-281
Prerequisites: ECE-121, ECE-150, and ECE-154

REM LCT	Course No	Crs Reg.	Tuition	Fee	Crs. Fee	Total
REM LCT	ECE-280-01 333939					
	D. GLASCOCK	\$378.00	\$39.00	\$45.00		\$462.00
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

ECE-292ES PRACTICUM III, 4 CREDITS

Este curso se enfoca en la experiencia de trabajo de los estudiantes con varios entornos educacionales en salones de clases enfocadas directamente con la enseñanza y supervisión de niños desde el nacimiento hasta el kínder. Este curso permite a los estudiantes aplicar conocimientos y metodologías adquiridas en los cursos de educación infantil, y sean transferibles a las habilidades requeridas en un ambiente educacional entre 0 a 8 años de edad. Los seminarios obligatorios abarcan la revisión de los dominios del desarrollo, los ámbitos de aprendizaje, las experiencias reales en el salón de clases, resolución de problemas, desarrollo del plan de estudios, técnicas de evaluación y la orientación del aprendizaje y la conducta de los niños.

Prerequisites: ECE-291ES

REM	Course No	Crs Reg.	Days	Time	Total
ESPAÑOL	ECE-292ES-01 337573 F			6-8:50 PM	
	P. ALVARADO	\$504.00	\$52.00	\$0.00	\$556.00
	Required: Student Petition. La clase se reúne cinco Viernes por Zoom: 10/4, 10/18, 11/1, 11/15, y 12/6 de 6:00pm-8:50pm.				

ED-101 INTRO TO EDUCATION PRACTICUM & SEMINAR, 4 CREDITS

This seminar presents critical topics associated with the Education profession. Each topic will be introduced with an understanding that future Education classes will expand student comprehension and knowledge to a mastery level. Students are also required to participate in a 60 hour practicum experience in a K-12 school to provide the opportunity to gain experience with the various educational issues discussed in class. Required: Student Petition.

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ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
OC	INSTRUCTOR	Tuition	Fee	Crs. Fee		
OC	ED-101-01 333942 T				1-2:50 PM	
	L. SCOTT	\$504.00	\$52.00	\$0.00		\$556.00
	Required: Student Petition.					

ED-113 INSTRUCTIONAL STRATEGIES FOR LITERACY, 3 CREDITS

This course develops an understanding of how to integrate literacy concepts and skills into all subjects. Curriculum design and assessment for Reading and Language Arts concepts and skills are explored, identified, and developed. Emphasis is placed on the role of literacy in the development of the whole student and on linking CTE curriculum to the literacy skills needed for students to be successful in their field. Designed for CTE instructors, but anyone interested in teaching literacy across the curriculum would benefit from this class.

ONL LCT	Course No	Crs Reg.	Tuition	Fee	Crs. Fee	Total
ONL LCT	ED-113-01 333944					
	L. SCOTT	\$378.00	\$39.00	\$43.75		\$460.75
	Online textbook included in section fees.					

ED-114 INSTRUCTIONAL STRATEGIES FOR MATH, 3 CREDITS

This course develops an understanding of how to integrate math concepts and skills into Career and Technical Education (CTE) courses and programs. Curriculum design and assessment for math concepts and skills are explored, identified, and developed. Designed for CTE instructors, but anyone interested in bringing more math into their classrooms could benefit from this class. Emphasis is placed on the role of math in the development of the whole student and on linking the CTE curriculum to the mathematics needed for students to be successful in their field.

ONL LCT	Course No	Crs Reg.	Tuition	Fee	Crs. Fee	Total
ONL LCT	ED-114-01 333945					
	TBA	\$378.00	\$39.00	\$0.00		\$417.00

ED-130 COMPREHENSIVE CLASSROOM MANAGEMENT, 3 CREDITS

This course focuses on creating positive classroom and school climates, organizing and managing classrooms, improving instruction, dealing with classroom discipline problems, developing individualized plans for students experiencing behavioral problems, and developing school-wide student management programs-characteristics of effective schools and teachers.

ONL LCT	Course No	Crs Reg.	Tuition	Fee	Crs. Fee	Total
ONL LCT	ED-130-01 333946					
	L. SCOTT	\$378.00	\$39.00	\$43.75		\$460.75
	Online textbook 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.

OC	Course No	Crs Reg.	Days	Time	Total
OC	ED-216-01 333947 TTH			10-11:50 AM	
	L. SCOTT	\$504.00	\$52.00	\$43.75	\$599.75
	Online textbook included in section fees.				

ONL	Course No	Crs Reg.	Tuition	Fee	Crs. Fee	Total
ONL	ED-216-02 333948					
	L. SCOTT	\$504.00	\$52.00	\$43.75		\$599.75
	Online textbook included in section fees.					

ED-220 INTRODUCTION TO CTE IN OREGON, 3 CREDITS

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

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

ONL LCT	ED-220-01	333950				
	M. HELZERMAN		\$378.00	\$39.00	\$0.00	\$417.00

ED-246 SCHOOL, FAMILY & COMMUNITY RELATIONS, 4 CREDITS

This course focuses on the knowledge and skills to work effectively with families and community professionals in early childhood education (6 weeks of age through 3rd grade). Emphasis is on building and maintaining positive relationships to foster cooperation and mutual respect between early childhood professionals and the families of the children with whom they are working.

ONL	ED-246-01	337574				
	D. HENDRICKS		\$504.00	\$52.00	\$0.00	\$556.00

Educational Focus Area

EFA-101C INTRODUCTION TO THE CREATIVE ARTS COMMUNICATION AND HUMANITIES, 2 CREDITS

This course engages students in the creative process of making meaning within the creative arts, communications, and humanities, and invites them to view themselves, others, and the world through story, while discovering academic and career possibilities.

OC	EFA-101C-01	333326 M			4-5:50 PM	
	S. MACH		\$252.00	\$26.00	\$0.00	\$278.00

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

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

OC LCT	EFA-101J-01	333328 F			10-11:50 AM	
	Y. SMITH		\$252.00	\$26.00	\$0.00	\$278.00

EFA-101S INTRODUCTION TO STEM, 2 CREDITS

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

REM	EFA-101S-01	333329 TTH			2-2:50 PM	
	E. LEE		\$252.00	\$26.00	\$0.00	\$278.00

Electronics & Microelectronics

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

EET-112 ELECTRONIC EQUIPMENT AND ASSEMBLY I, 1 CREDIT

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HAR: Harmony Community Campus
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VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

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	Instructor		Tuition	Fee	Crs. Fee	

This is the first course in a three course sequence. Focus is on building and testing simple DC prototype circuits. Covers DC power supplies, DMMs, breadboarding, resistor codes, and capacitor codes. Spreadsheets will be used to organize and analyze data.

OC	EET-112-01	333857 MW			4:30 -5:20 PM	
	B. PALACIOS		\$126.00	\$13.00	\$43.50	\$182.50

EET-127 SEMICONDUCTOR CIRCUITS I, 2 CREDITS

Introduction to the basic concepts of semiconductor devices. Various types of diodes and diode applications will be studied. Industry standard devices will be used.

Prerequisites: EET-142
Recommended Prerequisites: MTH-112Z

OC	EET-127-01	333858 MW			5:30 -7:20 PM	
	W. SELLEVAAG		\$252.00	\$26.00	\$87.00	\$365.00

EET-137 ELECTRICAL FUNDAMENTALS I, 4 CREDITS

Introduction to the basic concepts of voltage, current, resistance and their relationships in DC circuits. Use SI units, engineering notation and prefixes. Analysis of series, parallel and series-parallel circuits will be made using Ohm's & Kirchoff's laws.

Prerequisite or Corequisite: EET-112 and MTH-095

OC	EET-137-01	333859 MW			12-3:50 PM	
	M. FARRELL		\$504.00	\$52.00	\$174.00	\$730.00

EET-139 PRINCIPLES OF TROUBLESHOOTING I, 2 CREDITS

Emphasizes theories and practices useful in troubleshooting failures in electrical applications. Focuses on the overall philosophy and strategy of troubleshooting, drawing applications from residential and varied industrial situations. Includes laboratory projects.

Recommended Prerequisite or Corequisite: EET-112, and EET-137 or MFG-130

OC	EET-139-01	333863 TH			5-7:50 PM	
	M. TIZO		\$252.00	\$26.00	\$87.00	\$365.00

EET-157 DIGITAL LOGIC I, 3 CREDITS

An introduction to digital logic principles, numbering systems & conversions and gate operations. Using principles, circuit analysis will be used to minimize logic networks. Industry standard devices will be used.

Prerequisite or Corequisite: EET-112
Recommended Prerequisites: MTH-065

OC	EET-157-01	333865 MW			5:30 -8:20 PM	
	J. LEE		\$378.00	\$39.00	\$130.50	\$547.50

EET-215 TECHNICAL MECHANICS, 3 CREDITS

Introduction to mechanics. Covers theory of force, work, torque, energy, power, strength, and motion. Vectors and simple machines provide applications for these concepts.

Prerequisites: MTH-080 or MTH-112Z or EET-142

OC LCT	EET-215-01	333867 MW			1-3:50 PM	
	M. MATTSON		\$378.00	\$39.00	\$130.50	\$547.50

EET-239 PRINCIPLES OF TROUBLESHOOTING II, 2 CREDITS

Covers advanced applications of diagnosis, maintenance and repair of systems. Includes preventative maintenance, applied statistical process, and AC/DC motor controls.

Prerequisites: EET-139; EET-141 or MFG-131
Recommended Prerequisites: IMT-223

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
	Instructor		Tuition	Fee	Crs. Fee	
OC	EET-239-01 333869 T M. FARRELL		\$252.00	\$26.00	\$87.00	\$365.00

SM-150 SEMICONDUCTOR PROCESSING I, 2 CREDITS

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

OC	SM-150-01 334180 TH M. FARRELL		\$252.00	\$26.00	\$87.00	\$365.00
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SM-280 ELECTRONICS & MICROELECTRONICS/CWE, 1-6 CREDITS

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

Corequisites: CWE-281

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

Emergency Medical Technology

EMT-101 EMERGENCY MEDICAL TECHNICIAN PART I, 6 CREDITS

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

Required: Acceptance into the current EMT cohort

Prerequisites: EMT-105 with a C or better

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

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

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

EMT-105 INTRODUCTION TO EMERGENCY MEDICAL SERVICES, 3 CREDITS

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

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

Engineering

ENGR-111 INTRODUCTION TO ENGINEERING, 3 CREDITS

Campus Locations:

HAR: Harmony Community Campus
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ESPAÑOL: Enseñado en español

LCT: Low-Cost Text

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

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

Prerequisite or Corequisite: MTH-111Z or higher

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

ENGR-112 ENGINEERING PROGRAMMING, 3 CREDITS

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

Prerequisite or Corequisite: MTH-112Z or higher

OC	ENGR-112-01 333874 MW E. LEE		\$378.00	\$39.00	\$0.00	\$417.00
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ENGR-211 STATICS, 4 CREDITS

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

Prerequisites: MTH-252

Prerequisite or Corequisite: PH-211

OC	ENGR-211-01 333875 MW E. LEE		\$504.00	\$52.00	\$20.00	\$576.00
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ENGR-221 ELECTRICAL CIRCUIT ANALYSIS I, 4 CREDITS

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

Corequisites: ENGR-221L

Prerequisites: MTH-252

OC	ENGR-221-01 333877 T M. FARRELL		\$504.00	\$52.00	\$52.00	\$608.00
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ENGR-221L ELECTRICAL CIRCUIT ANALYSIS I LAB, 0 CREDIT

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

Corequisites: ENGR-221

OC	ENGR-221L-01 333879 TH M. FARRELL		\$0.00	\$0.00	\$0.00	\$0.00
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English for Speakers of Other Languages

ESOL-012 BEGINNING ESOL, 0 CREDIT

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

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
OC LCT	ESOL-012-01 333339 MW D. VERMILLION					\$0.00	\$0.00	9-11:50 AM	\$60.00	\$60.00
Required: Student Petition.										
HAR LCT	ESOL-012-06 333342 MW L. ROWE					\$0.00	\$0.00	6-8:50 PM	\$60.00	\$60.00
Required: Student Petition.										
OC LCT	ESOL-012-07 333345 MW K. HOLLOWAY					\$0.00	\$0.00	6-8:50 PM	\$60.00	\$60.00
Required: Student Petition.										
OC LCT	ESOL-012-08 337542 MW O. TREHUBOVA					\$0.00	\$0.00	6-8:50 PM	\$60.00	\$60.00
Required: Student Petition.										

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

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

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

ESOL-020 UPPER BEGINNING GRAMMAR, 0 CREDIT

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

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

ESOL-022 UPPER BEGINNING CONVERSATION, 0 CREDIT

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

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

ESOL-024 UPPER BEGINNING READING & WRITING, 0 CREDIT

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

ESOL-030 INTERMEDIATE GRAMMAR A, 0 CREDIT

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

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

ESOL-032 INTERMEDIATE CONVERSATION 1, 0 CREDIT

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

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

ESOL-034 INTERMEDIATE READING & WRITING, 0 CREDIT

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

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

ESOL-042 UPPER INTERMEDIATE CONVERSATION 1, 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, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
	Instructor		Tuition	Fee	Crs. Fee	

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

OC LCT	ESOL-042-01	333390 MW			10:30 -11:50 AM	
	S. MUNRO	\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.					
HAR LCT	ESOL-042-06	333393 MW			6-7:20 PM	
	A. FRANZONI	\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.					
HAR LCT	ESOL-042-07	337544 MW			6-7:20 PM	
	P. MROZEK	\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.					

ESOL-044 UPPER INTERMEDIATE READING & WRITING, 0 CREDIT

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

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

ESOL-046 EDITING FOR BETTER WRITING, 0 CREDIT

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

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

ESOL-052 ADVANCED COMMUNICATION SKILLS 1, 0 CREDIT

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

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

ESOL-054 ADVANCED READING & WRITING, 0 CREDIT

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

OC LCT	ESOL-054-01	333408 TTH			9-11:50 AM	
	S. MUNRO	\$0.00	\$0.00	\$70.00	\$70.00	
	Required: Student Petition.					

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

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

HAR LCT	ESOL-054-06	333411 TTH			6-8:50 PM	
	I. FERGUSON	\$0.00	\$0.00	\$70.00	\$70.00	
	Required: Student Petition.					

ESOL-055 ADVANCED GRAMMAR C, 0 CREDIT

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

OC LCT	ESOL-055-01	337548 TTH			12:30 -1:50 PM	
	K. LONG	\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.					
HAR LCT	ESOL-055-06	337546 MW			7:30 -8:50 PM	
	S. CAISSE	\$0.00	\$0.00	\$30.00	\$30.00	
	Required: Student Petition.					

ESOL-060 VOCABULARY BUILDING 1, 0 CREDIT

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

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

ESOL-062 ESOL READING, 0 CREDIT

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

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

ESOL-082 ASSESS/EVALUATE NEW STUDENTS, 0 CREDIT

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

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

ESOL-083 EDUCATIONAL PLANNING FOR RETURNING STUDENTS, 0 CREDIT

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
Designed for returning students in the ESOL program at CCC. Students meet with faculty advisors to review their progress, revisit their goals, choose next term's classes, and learn how to transition to other educational and training opportunities at the college and in other community programs. This course is used administratively to identify returning students in the ESOL department. Required: Student Petition.										
OC LCT	ESOL-083-01 333423 TBA		L. JOYCE	\$0.00		\$0.00	\$0.00	\$0.00		\$0.00
Required: Student Petition.										
HAR LCT	ESOL-083-06 333425 TBA		L. JOYCE	\$0.00		\$0.00	\$0.00	\$0.00		\$0.00
Required: Student Petition.										
PIE-020 UPPER BEGINNING GRAMMAR, 0 CREDIT										
English language learners study and practice basic verb forms (simple present and present progressive), and adverbs of frequency in written and spoken English. Aligns with the Oregon Adult English Language Proficiency Standards, Level 1. Required: Student Petition.										
oc	PIE-020-01 333426 TTH		J. RUEDA	\$378.00		\$39.00	\$240.00	\$657.00		12:30 -1:50 PM
Required: Student Petition.										
PIE-024 UPPER BEGINNING READING & WRITING, 0 CREDIT										
English language learners read short texts to improve reading skills, write simple, compound, and complex sentences, and write related sentences in paragraph form for the contexts of school, work, family and community. Aligns with the Oregon Adult English Language Proficiency Standards, Level 2. Required: Student Petition.										
oc	PIE-024-01 333428 T		T. NIKOLOPOULOS	\$756.00		\$78.00	\$480.00	\$1,314.00		9-11:50 AM TH 9-10:20 AM TH 10:30 -11:50 AM
Required: Student Petition.										
PIE-030 INTERMEDIATE GRAMMAR A, 0 CREDIT										
One of a two-part series. English language learners study and practice simple present, present progressive, and future verb forms and modals of ability, and advice. Aligns with the Oregon Adult English Language Proficiency Standards, Level 2. Required: Student Petition.										
oc	PIE-030-01 333430 TTH		S. MUNRO	\$378.00		\$39.00	\$240.00	\$657.00		12:30 -1:50 PM
Required: Student Petition.										
PIE-032 INTERMEDIATE CONVERSATION 1, 0 CREDIT										
English language learners study and practice speaking and listening skills and strategies in structured tasks to improve fluency in the contexts of school, work, family and community. One of a 2-part series. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 2 and 3. Required: Student Petition.										
oc	PIE-032-01 333432 MW		S. CAISSE	\$378.00		\$39.00	\$240.00	\$657.00		10:30 -11:50 AM
Required: Student Petition.										
PIE-034 INTERMEDIATE READING & WRITING, 0 CREDIT										
English language learners read a variety of texts to improve reading skills, and write paragraphs focused on a single topic developed with logically organized facts and details for the contexts of school, work, family and community. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 2 and 3. Required: Student Petition.										
oc	OC PIE-034-01 333434 TTH		D. VERMILLION	\$756.00		\$78.00	\$480.00	\$1,314.00		9-11:50 AM
Required: Student Petition.										
PIE-042 UPPER INTERMEDIATE CONVERSATION 1, 0 CREDIT										
English language learners study and practice speaking and listening skills and strategies for independent communication to improve fluency in the contexts of school, work, family and community. One of a 2-part series. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 3 and 4. Required: Student Petition.										
oc	PIE-042-01 333435 MW		S. MUNRO	\$378.00		\$39.00	\$240.00	\$657.00		10:30 -11:50 AM
Required: Student Petition.										
PIE-044 UPPER INTERMEDIATE READING & WRITING, 0 CREDIT										
English language learners read a variety of texts to improve reading skills, and produce basic multi-paragraph texts for the contexts of school, work, family and community. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 3 and 4. Required: Student Petition.										
oc	PIE-044-01 333437 TTH		L. JOYCE	\$756.00		\$78.00	\$480.00	\$1,314.00		9-11:50 AM
Required: Student 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.										
oc	PIE-046-01 333439 TTH		K. LONG	\$756.00		\$78.00	\$480.00	\$1,314.00		9-11:50 AM
Required: Student Petition.										
PIE-052 ADVANCED COMMUNICATION SKILLS 1, 0 CREDIT										
English language learners practice speaking and listening strategies for effective communication in discussions, presentations, lectures, note-taking, and group projects. The course builds vocabulary, critical thinking skills, and an awareness of non-verbal communication. The focus of this course is to prepare students for college success. Aligns with the Oregon Adult English Language Proficiency Standards, Level 4 & 5. Required: Student Petition.										
oc	PIE-052-01 333443 MW		J. RUEDA	\$378.00		\$39.00	\$240.00	\$657.00		10:30 -11:50 AM
Required: Student 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 333444 TTH		S. MUNRO	\$756.00		\$78.00	\$480.00	\$1,314.00		9-11:50 AM
Required: Student Petition.										
PIE-055 ADVANCED GRAMMAR C, 0 CREDIT										
One of a three-part series. English language learners study and practice gerunds, infinitives, and complex sentences with adjective clauses in written and spoken English. Aligns with the Oregon Adult English Language Proficiency Standards, Levels 3 and 4. Required: Student Petition.										

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

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VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

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

oc **PIE-055-01 337549 TTH 12:30 -1:50 PM**
 K. LONG \$378.00 \$39.00 \$240.00 \$657.00
 Required: Student Petition.

PIE-060 VOCABULARY BUILDING 1, 0 CREDIT

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

oc **PIE-060-01 333446 MW 9-10:20 AM**
 S. MUNRO \$378.00 \$39.00 \$240.00 \$657.00
 Required: Student Petition.

PIE-062 ESOL READING, 0 CREDIT

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

oc LCT **PIE-062-01 333448 MW 12:30 -1:50 PM**
 K. LONG \$378.00 \$39.00 \$240.00 \$657.00
 Required: Student Petition.

English Literature

ENG-104Z INTRODUCTION TO FICTION, 4 CREDITS

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

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

oc LCT **ENG-104Z-01 333960 MW 1-2:50 PM**
 A. COFFEY \$504.00 \$52.00 \$0.00 \$556.00

ENG-107 WORLD LITERATURE: ANCIENT THROUGH CLASSICAL TIMES, 4 CREDITS

Literature of the ancient through classical worlds: epic, lyric, and dramatic literature. Through class discussion, research, and written work, students practice close reading and literary interpretation, explore the readings' contemporary relevance, relate the readings to their own lives and the world, and engage in academic conversations about the literature.

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

oc HYB **ENG-107-01 337730 T 10-11:50 AM**
 A. WARREN \$504.00 \$52.00 \$0.00 \$556.00

ENG-116 INTRODUCTION TO LITERATURE: COMICS, 4 CREDITS

Examines the intrinsic literary and artistic qualities of comics, as well as their connections to classic literature, and the literature and other art they have inspired.

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

ONL **ENG-116-01 333962**
 T. DODGE \$504.00 \$52.00 \$0.00 \$556.00

ENG-121 MYSTERY FICTION, 4 CREDITS

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

An introduction to detective/mystery fiction. Students will read, discuss, and analyze short stories by writers such as Edgar Allan Poe, Agatha Christie, and Walter Mosley.

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

ONL **ENG-121-01 333964**
 J. DAVIS \$504.00 \$52.00 \$0.00 \$556.00

ENG-194 INTRODUCTION TO FILM, 4 CREDITS

Viewing, discussion, and analysis of films from a variety of eras and cultures. Students will learn to analyze a film beyond its surface meaning, drawing on film aesthetics, technology, history, and theory. The interpretive and critical thinking skills they develop can be applied to a variety of modern media.

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

oc **ENG-194-01 337731 TTH 1-2:50 PM**
 R. DAVIS \$504.00 \$52.00 \$0.00 \$556.00

ENG-204 BRITISH LITERATURE: ANCIENT TO ENLIGHTENMENT, 4 CREDITS

Representative study of British literature, including major works, writers, and literary forms, from its beginnings through the eighteenth century. Readings from the Anglo-Saxon, Middle English, Renaissance, Restoration, and Enlightenment periods.

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

ONL LCT **ENG-204-01 333968**
 J. MCALPINE \$504.00 \$52.00 \$0.00 \$556.00

ENG-251 CELTIC MYTHOLOGY, 4 CREDITS

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

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

oc **ENG-251-01 337732 MW 10-11:50 AM**
 J. BRYANT-TRERISE \$504.00 \$52.00 \$0.00 \$556.00

ENG-280 ENGLISH/CWE, 2-6 CREDITS

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

Corequisites: CWE-281

ONL LCT **ENG-280-01 333975**
 A. COFFEY \$756.00 \$78.00 \$45.00 \$879.00V
 Required: Student Petition. Corequisite: Take the following CWE-281-06.

ENG-297 A.S. DEGREE PORTFOLIO, 1 CREDIT

This course provides the opportunity for A.S. Degree students to revise, edit, reflect upon, and compile their best work from their various focus areas to meet the outcomes for the program and prepare for transfer to a university.

Required: Students must be in the second year of their course of study, and have the majority of their focus area and transfer requirements complete

ONL LCT **ENG-297-01 333980**
 A. COFFEY \$126.00 \$13.00 \$0.00 \$139.00
 Required: Student Petition.

Environmental Science

Other Coding Translations:

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

ESPAÑOL: Enseñado en español

LCT: Low-Cost Text

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

ESR-171 INTRODUCTION TO ENVIRONMENTAL SCIENCE, 4 CREDITS

Introduction to environmental science topics. Will focus on human impacts on land, air, water and ecology, climate change, sustainability, environmental impacts on human health and environmental justice. The laboratory assignments will focus on applied introductory environmental science topics.

Corequisites: ESR-171L

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

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

OC LCT	ESR-171-01 333881 TTH					1-2:20 PM								
	E. CAVALIERE	\$504.00	\$52.00	\$55.00	\$611.00									
	Corequisite: Take 1 of the following ESR-171L-01, ESR-171L-02, ESR-171L-03.													
ONL LCT	ESR-171-02 333883													
	E. CAVALIERE	\$504.00	\$52.00	\$55.00	\$611.00									
	This section has an in-person lab requirement. Corequisite: Take 1 of the following ESR-171L-01, ESR-171L-02, ESR-171L-03.													
ONL	ESR-171-15 333884													
	E. CAVALIERE	\$504.00	\$52.00	\$55.00	\$611.00									
	This section has an in-person lab requirement. Corequisite: Take the following ESR-171L-15.													

ESR-171L INTRODUCTION TO ENVIRONMENTAL SCIENCE LAB, 0 CREDIT

Lab course for ESR-171

Corequisites: ESR-171

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

Ethnic Studies

ES-101 INTRODUCTION TO ETHNIC STUDIES, 4 CREDITS

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

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

OC	ES-101-01 337800 MW					2-3:50 PM								
	L. MARTINEZ	\$504.00	\$52.00	\$0.00	\$556.00									

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ESPAÑOL: Enseñado en español
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Family Studies

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

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

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

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

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

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

HDF-260 UNDERSTANDING CHILD ABUSE AND NEGLECT, 3 CREDITS

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

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

Fire Science (Wildland)

FRP-101 BASIC FOREST MANAGEMENT, 3 CREDITS

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

Corequisites: FRP-102

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

FRP-102 BASIC FOREST MANAGEMENT LAB, 1 CREDIT

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

Corequisites: FRP-101

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
	Instructor		Tuition	Fee	Crs. Fee	
OC LCT	FRP-102-01 G. CLINE	333550 W			9-11:50 AM	\$126.00 \$13.00 \$110.00 \$249.00

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

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

OC LCT	FRP-130-01 J. GULLEY	333553 SSU			12-6:00 PM	\$252.00 \$26.00 \$50.00 \$328.00
Meets: 10/5-11/23.						

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

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

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

FRP-245 WILDERNESS III: WEATHER OF THE NORTHWEST, 2 CREDITS

This course covers the basics of weather forecasting, especially as it relates to the weather of the Northwest.

oc	FRP-245-01 J. SALTENBERGER	338014 S			9-12:00 PM	\$252.00 \$26.00 \$20.00 \$298.00
Meets: 10/26-12/7.						

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

oc	FRP-255-01 J. GULLEY	338015 THSU			10-12:00 PM	\$252.00 \$26.00 \$0.00 \$278.00
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First Year Experience (FYE)

FYE-101 FIRST YEAR EXPERIENCE LEVEL I, 2 CREDITS

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

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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

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

OC LCT	FYE-101-01 D. GREEN	333991 MW			9-9:50 AM	\$0.00 \$0.00 \$93.00 \$93.00
OC LCT	FYE-101-02 TBA	333995 MW			10-10:50 AM	\$0.00 \$0.00 \$93.00 \$93.00
OC LCT	FYE-101-03 M. BAKER	333998 MW			11-11:50 AM	\$0.00 \$0.00 \$93.00 \$93.00
OC LCT	FYE-101-04 J. CORTES	334000 M			1-2:50 PM	\$0.00 \$0.00 \$93.00 \$93.00
OC LCT	FYE-101-05 D. GREEN	334002 TTH			9-9:50 AM	\$0.00 \$0.00 \$93.00 \$93.00
OC LCT	FYE-101-06 T. STAUFFER DEXTER	334005 TTH			11-11:50 AM	\$0.00 \$0.00 \$93.00 \$93.00
OC LCT	FYE-101-07 C. SIMS	334007 T			1-2:50 PM	\$0.00 \$0.00 \$93.00 \$93.00
OC LCT	FYE-101-08 T. STAUFFER DEXTER	334010 TTH			3-3:50 PM	\$0.00 \$0.00 \$93.00 \$93.00
OC LCT	FYE-101-09 C. BAKER	334012 W			1-2:50 PM	\$0.00 \$0.00 \$93.00 \$93.00
OC	FYE-101-10 A. RODRIGUEZ	334015 TH			1-2:50 PM	\$0.00 \$0.00 \$93.00 \$93.00
ONL LCT	FYE-101-11 T. BOYLE- GALESTIANZ	334017				\$0.00 \$0.00 \$93.00 \$93.00
ONL LCT	FYE-101-12 D. WOOD	334019				\$0.00 \$0.00 \$93.00 \$93.00
ONL LCT	FYE-101-13 TBA	334021				\$0.00 \$0.00 \$93.00 \$93.00

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

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

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

Food & Nutrition

FN-110 PERSONAL NUTRITION, 3 CREDITS

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

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
	Instructor		Tuition	Fee	Crs. Fee	
ONL	FN-110-01 333190 T. SCOLLARD Online textbook included in section fees.		\$378.00	\$39.00	\$82.20	\$499.20
FN-225 NUTRITION, 4 CREDITS	This course explores the role of nutrients in the development and maintenance of a healthy body. The course examines the relationship between diet and health. Students apply knowledge of nutritional adequacy through computer-aided diet analysis. It discusses current nutrition recommendations and controversies. The course meets requirements for most nursing programs.					
Recommended: A strong background in anatomy and physiology, biology or chemistry						
ONL	FN-225-01 333191 T. SCOLLARD Online textbook included in section fees.		\$504.00	\$52.00	\$121.88	\$677.88
ONL	FN-225-02 333192 J. PAVLINAC Online textbook included in section fees.		\$504.00	\$52.00	\$121.88	\$677.88
ONL	FN-225-03 333193 J. PAVLINAC Online textbook included in section fees.		\$504.00	\$52.00	\$121.88	\$677.88

General Development Education (GED)

GED Classes offered Days and Evenings

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

GED-011 GED IN ESPAÑOL, 0 CREDIT

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

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

GED-015 GED PREPARATION, 0 CREDIT

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

Campus Locations:
HAR: Harmony Community Campus
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HYB: In-person plus online work

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
	Instructor		Tuition	Fee	Crs. Fee	
OC LCT	GED-015-17 334067 MW A. BRANDENBURG A. WICKERT Required: Student Petition.		\$0.00	\$0.00	\$50.00	\$50.00
HAR HYB LCT	GED-015-67 334070 MW M. NICKAS Required: Student Petition.		\$0.00	\$0.00	\$55.00	\$55.00
ONL LCT	GED-015-68 334072 S. HATSWELL Required: Student Petition.		\$0.00	\$0.00	\$55.00	\$55.00
ONL LCT	GED-015-69 334073 M. NICKAS L. NIELSON Required: Student Petition.		\$0.00	\$0.00	\$55.00	\$55.00
OC LCT	GED-015-80 334074 MTWTH J. NIELSON Required: Student Petition.		\$0.00	\$0.00	\$55.00	\$55.00

GED-049 LATINO GED & LIFE SKILLS, 0 CREDIT

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

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

General Science

GS-104 EARTH SYSTEM SCIENCE, 4 CREDITS

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

Corequisites: GS-104L

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

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

GS-104L EARTH SYSTEM SCIENCE LAB, 0 CREDIT

Lab course for GS-104

Corequisites: GS-104

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

GS-107 ASTRONOMY, 4 CREDITS

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

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

Corequisites: GS-107L

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

Prerequisites: WRD-090 or placement in WRD-098

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

GS-107L ASTRONOMY LAB, 0 CREDIT

Lab course for GS-107

Corequisites: GS-107

ONL LCT	GS-107L-40 333924	TBA		\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take the following GS-107-40.						
ONL LCT	GS-107L-41 333925	TBA		\$0.00	\$0.00	\$0.00	\$0.00
	Corequisite: Take the following GS-107-41.						

Geographic Information Systems

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

GIS-101 PRINCIPLES OF GEOSPATIAL TECHNOLOGY, 2 CREDITS

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

ONL LCT	GIS-101-01 333562	A. ARMEN		\$252.00	\$26.00	\$30.00	\$308.00
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GIS-201 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS, 3 CREDITS

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

ONL LCT	GIS-201-01 333563	A. ARMEN		\$378.00	\$39.00	\$40.00	\$457.00
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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

Campus Locations:

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- 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	Cr. Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
		Instructor		Tuition	Fee	Cr. Fee

ONL	GEO-100-01 337615	C. FELDMAN		\$504.00	\$52.00	\$94.99	\$650.99
	Online textbook included in section 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	GEO-110-01 334084	C. FELDMAN		\$504.00	\$52.00	\$0.00	\$556.00
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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

oc	GEO-130-01 334087 TTH	A. ARMEN		\$504.00	\$52.00	\$109.99	\$665.99
	3-4:50 PM 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

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

Geology

G-101 GENERAL GEOLOGY, 4 CREDITS

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

Corequisites: G-101L

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

OC LCT	G-101-01 333892 MW	B. WALKER		\$504.00	\$52.00	\$50.00	\$606.00
	10-11:20 AM Corequisite: Take 1 of the following G-101L-01, G-101L-02.						
REM LCT	G-101-02 333893 TTH	A. KOTASH		\$504.00	\$52.00	\$50.00	\$606.00
	3-4:20 PM This class has an in-person lab requirement. Corequisite: Take 1 of the following G-101L-02, G-101L-01.						
REM LCT	G-101-15 333898 T	J. WOODCOCK		\$504.00	\$52.00	\$50.00	\$606.00
	6-8:50 PM This section has an in-person lab requirement. Corequisite: Take the following G-101L-15.						

G-101L GENERAL GEOLOGY LAB, 0 CREDIT

Lab course for G-101

Corequisites: G-101

Other Coding Translations:

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

ESPAÑOL: Enseñado en español

LCT: Low-Cost Text

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
	Instructor		Tuition	Fee	Crs. Fee	
OC LCT	G-101L-01 333899 T A. KOTASH Corequisite: Take 1 of the following G-101-01, G-101-02.		\$0.00	\$0.00	9-11:50 AM	\$0.00
OC LCT	G-101L-02 333900 W B. WALKER Corequisite: Take 1 of the following G-101-01, G-101-02.		\$0.00	\$0.00	1-3:50 PM	\$0.00
HAR LCT	G-101L-15 333902 TH J. WOODCOCK Corequisite: Take the following G-101-15.		\$0.00	\$0.00	6-8:50 PM	\$0.00

G-201 GENERAL GEOLOGY, 4 CREDITS

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

Corequisites: G-201L

Prerequisites: WRD-090 or placement in WRD-098

OC LCT	G-201-01 333904 MW B. WALKER Corequisite: Take 1 of the following G-201L-01, G-201L-02.		\$504.00	\$52.00	\$50.00	\$606.00
REM LCT	G-201-02 333907 TTH A. KOTASH This section has an in-person lab requirement. Corequisite: Take 1 of the following G-201L-01, G-201L-02.		\$504.00	\$52.00	\$50.00	\$606.00
REM LCT	G-201-15 333911 T J. WOODCOCK This section has an in-person lab requirement. Corequisite: Take the following G-201L-15.		\$504.00	\$52.00	\$50.00	\$606.00

G-201L GENERAL GEOLOGY LAB, 0 CREDIT

Lab course for G-201

Corequisites: G-201

OC LCT	G-201L-01 333913 T A. KOTASH Corequisite: Take 1 of the following G-201-01, G-201-02.		\$0.00	\$0.00	\$0.00	\$0.00
OC LCT	G-201L-02 333914 W B. WALKER Corequisite: Take 1 of the following G-201-01, G-201-02.		\$0.00	\$0.00	\$0.00	\$0.00
HAR LCT	G-201L-15 333916 TH J. WOODCOCK Corequisite: Take the following G-201-15.		\$0.00	\$0.00	\$0.00	\$0.00

Gerontology

GRN-181 ISSUES IN AGING, 3 CREDITS

Provides an introduction to gerontology including the history of aging and current issues. Covers: myths, stereotypes, economic and political aspects, demographics and service availability for aging populations.

ONL LCT	GRN-181-01 333170 Y. SMITH		\$378.00	\$39.00	\$0.00	\$417.00
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GRN-280 GERONTOLOGY/CWE, 2-6 CREDITS

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

Prerequisite or Corequisite: HS-170

Corequisites: HS-270

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
WILS: Wilsonville Training Center
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Other Coding Translations:
TBA: To be arranged: contact department first class
VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
	Instructor		Tuition	Fee	Crs. Fee	
HAR HYB LCT	GRN-280-01 333171 J. LOVELESS Required: Student Petition. Corequisite: Take the following CWE-281-06.		\$756.00	\$78.00	\$45.00	\$879.00V

Health

HE-163 BODY & DRUGS I: INTRODUCTION TO ABUSE & ADDICTION, 3 CREDITS

The first of a four-course sequence, this course examines the history of the use of addictive drugs, the definition of addiction, psychosocial and neurobiological causes of drug and behavioral addiction, addictive drug classifications, and the history of/introduction to addiction treatment, and access and utilize effective resources to improve and maintain mental and physical wellbeing.

ONL	HE-163-01 333931 T. PANTAGES		\$378.00	\$39.00	\$0.00	\$417.00
ONL	HE-163-02 333932 T. PANTAGES		\$378.00	\$39.00	\$0.00	\$417.00

HE-164 BODY & DRUGS II: ALCOHOL, 3 CREDITS

The second of a four-course offering. Covers beverage alcohol as a drug, the history of alcohol use/abuse, physiological and psychological effects of alcohol use on the user, and the impact of that use on those around the user and on society at large, access and utilize effective resources to improve and maintain mental and physical wellbeing.

Prerequisites: HE-163

ONL	HE-164-01 333934 T. PANTAGES		\$378.00	\$39.00	\$0.00	\$417.00
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HE-201 PERSONAL TRAINING, 3 CREDITS

Students will follow the curriculum for the National Council on Strength and Fitness (NCSF) Certified Personal Trainer certification. The course will guide students through the expectations, requirements, processes and knowledge to prepare to become a certified Personal Trainer through the NCSF. Through videos, lecture and self-study, students will be prepared to take the NCSF Certified Personal Training exam, which is offered through the NCSF and is not included in the course.

Recommended Prerequisites: PE-240

ONL	HE-201-01 333935 T. NELSON		\$378.00	\$39.00	\$0.00	\$417.00
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HE-204 NUTRITION & WEIGHT CONTROL, 3 CREDITS

Methods of maintaining or improving nutrition by considering diets and dieting, obesity, types of exercise, physical testing, cardio-vascular fitness and nutritional concepts.

ONL	HE-204-01 333936 J. BUEL Meets: 11/16-12/11.		\$378.00	\$39.00	\$0.00	\$417.00
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HE-207 INTRODUCTION TO PLANT BASED LIVING, 3 CREDITS

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

ONL	HE-207-01 333940 T. NELSON		\$378.00	\$39.00	\$0.00	\$417.00
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Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
Instructor	Tuition	Fee	Crs. Fee			

HE-223 SPORTS NUTRITION, 3 CREDITS
 Examination of nutrition as it relates to the demands of exercise and competitive sport. Emphasis on the relationship of diet and exercise to optimal health and performance. This course can lead to a certification as a sports nutritionist through the NCSF.

ONL	HE-223-01	333941				
	J. BUEL		\$378.00	\$39.00	\$0.00	\$417.00

HE-249 MENTAL HEALTH, 3 CREDITS
 Designed for each student to understand and improve their personal mental health. Teaches theories of mental health as well as practical strategies for improving one's level of mental health. Analyzes factors that may impede optimal mental health, again with practical solutions for minimizing/avoiding such factors.

REM	HE-249-01	333943 MW			1-2:20 PM	
	K. WOODS		\$378.00	\$39.00	\$0.00	\$417.00

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

ONL	HE-250-01	333949				
	J. RHODEN		\$378.00	\$39.00	\$0.00	\$417.00
ONL	HE-250-02	333954				
	J. RHODEN		\$378.00	\$39.00	\$0.00	\$417.00
	Meets: 11/2-12/14.					

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

ONL	HE-252-01	333955				
	K. ARIZO		\$378.00	\$39.00	\$35.00	\$452.00
ONL	HE-252-03	333956				
	T. NELSON		\$378.00	\$39.00	\$35.00	\$452.00
ONL	HE-252-05	333957				
	K. WOODS		\$378.00	\$39.00	\$35.00	\$452.00

HE-280 HEALTH/CWE, 2-6 CREDITS
 Cooperative work experience. Provides students with on-the-job experience and training related to the Physical Education field. Covers job problems and procedures, evaluation of students' job performance by qualified college staff and site supervision. May be repeated for up to 12 credits. Required: Student Petition.

Corequisites: CWE-281

ONL LCT	HE-280-01	333958				
	T. NELSON		\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

Health & Fitness

HPE-295 HEALTH & FITNESS FOR LIFE, 3 CREDITS

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

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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

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

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

Recommended: A completed physical by a doctor

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

Health Professions

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

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

HAR HYB	HP-100-01	337768 TBA				
	T. SAWZAK		\$126.00	\$13.00	\$15.00	\$154.00

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	337499				
	T. BOYD		\$504.00	\$52.00	\$156.56	\$712.56
	Online textbook included in section fees.					
ONL	HP-110-02	337501				
	T. BOYD		\$504.00	\$52.00	\$156.56	\$712.56
	Online textbook included in section fees.					
ONL	HP-110-03	337502				
	T. BOYD		\$504.00	\$52.00	\$156.56	\$712.56
	Online textbook included in section fees.					
ONL	HP-110-04	337503				
	T. BOYD		\$504.00	\$52.00	\$156.56	\$712.56
	Online textbook included in section fees.					

HP-120 INTRODUCTION TO HEALTH SCIENCES, 3 CREDITS
 This course introduces students to Career Technical Education (CTE) Programs within Health Professions and prepares students for next steps in applying for competitive program entry.

Prerequisites: WRD-098 or placement in WR-101

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

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

High School Diploma (AHSD)

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

ASE-042 JOB SKILLS COMPETENCY LAB, 0.5 CREDIT

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

OC HYB	ASE-042-03	333585 M		4-4:50 PM		
	M. TIZO	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Required: Student Petition.						

XASE-0001 BASIC ESSENTIAL SKILLS SUPPORT, 0 CREDIT

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

HAR HYB	XASE-0001-03	334503 MW		10-11:50 AM		
	M. NICKAS	\$0.00	\$0.00	\$30.00	\$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

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

HST-103 HISTORY OF WESTERN CIVILIZATION, 4 CREDITS

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

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

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

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

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VAR: Variable credit class

ESPAÑOL: Enseñado en español

LCT: Low-Cost Text

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

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

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

HST-201 HISTORY OF THE UNITED STATES, 4 CREDITS

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

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

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

OC	HST-201-01	334155 TTH		10-11:50 AM		
	J. FLOWERS	\$504.00	\$52.00	\$59.41	\$615.41	
Online textbook included in section fees.						
ONL	HST-201-02	334158				
	J. FLOWERS	\$504.00	\$52.00	\$59.41	\$615.41	
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

ONL	HST-202-01	334160				
	J. FLOWERS	\$504.00	\$52.00	\$59.41	\$615.41	
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	334162				
	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-111 HORTICULTURE PRACTICUM/FALL, 2 CREDITS

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

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

HOR-113 ORGANIC FARMING PRACTICUM/FALL, 3 CREDITS

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

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

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

HOR-115 HORTICULTURE SAFETY, 1 CREDIT

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

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

HOR-118 SPANISH FOR HORTICULTURE, 4 CREDITS

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

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

HOR-124 FOOD HARVEST, 3 CREDITS

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

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

HOR-130 PLANT PROPAGATION TECHNIQUES, 3 CREDITS

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

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

HOR-140 SOILS, 3 CREDITS

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

OC HYB LCT	HOR-140-01	333973 TH			1-3:50 PM	
	D. FRANEK	\$378.00	\$39.00	\$65.00		\$482.00
	Meets: In-person Thursdays, except one Remote, date TBD.					

HOR-212 FLOWER ARRANGER'S GARDEN, 2 CREDITS

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

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

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

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

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

HOR-223 APPLIED PLANT SCIENCE, 4 CREDITS

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

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

HOR-224 LANDSCAPE INSTALLATION, 3 CREDITS

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

Recommended Prerequisites: MTH-050

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

HOR-225 ARBORICULTURE I, 3 CREDITS

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

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

HOR-226 PLANT IDENTIFICATION/FALL, 4 CREDITS

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

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

HOR-235 WEED IDENTIFICATION, 2 CREDITS

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

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

HOR-236 INSECT IDENTIFICATION, 2 CREDITS

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

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

HOR-252 KITCHEN HERBS, 1 CREDIT

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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course No	Course Title, Credits					Course No	Course Title, Credits					
	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total		Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total	
OC LCT	Instructor	Tuition	Fee	Crs. Fee		OC LCT	Instructor	Tuition	Fee	Crs. Fee		
	HOR-252-01	333989 F		8-11:50 AM		HOR-282	HORTICULTURE/CWE, 3 CREDITS					
	D. ROSTAD	\$126.00	\$13.00	\$65.00	\$204.00		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.					
	Meets: 10/4-11/1.						Corequisites: CWE-281					
	HOR-262	TREWORK PRACTICUM I, 2 CREDITS					Required: Students are expected to work a minimum of 90 job site hours					
	Experience with the implementation of basic requirements, equipment and techniques employed by arborists who work aloft. Covers personal protective equipment, safe operation, and common cutting techniques in accordance with current industry standards. Students operate chainsaws in a variety of field exercises, and will gain exposure to other pieces of industry equipment, such as chipper, truck and trailer, and aerial lift. Students will participate as members of a crew, gaining introductory experience in tree pruning, rigging, hardware installation, electrical hazard awareness, aerial rescue, ground work, and work site management.						OC LCT	HOR-282-01	334003			
	Prerequisites: HOR-115, HOR-131, and HOR-239							C. KONIECZKA	\$378.00	\$39.00	\$45.00	\$462.00
								Required: Student Petition. Contact: chrisk@clackamas.edu.				
								Corequisite: Take the following CWE-281-06.				
	OC LCT	HOR-262-01	333990 F		10-12:30 PM		HOR-285	ORGANIC FARMING/CWE, 3 CREDITS				
			F		1-4:30 PM			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.				
	J. WENTWORTH-PLATO	\$252.00	\$26.00	\$95.00	\$373.00			Corequisites: CWE-281				
	If you have arboriculture industry experience and wish to take this class, contact jimwp@clackamas.edu.							Required: Students are expected to work a minimum of 90 job site hours				
	HOR-264	TREWORK PRACTICUM II (AERIAL), 2 CREDITS					OC LCT	HOR-285-01	334009			
	Experience with the implementation of intermediate requirements, using equipment and techniques employed by arborists who work aloft. Reinforces personal protective equipment, safe operation, and common cutting techniques in accordance with current industry standards. Students operate chainsaws in a variety of field exercises, and will gain exposure to other pieces of industry equipment, such as chipper, truck and trailer, and aerial lift. Students will participate as members of a crew, gaining additional experience in tree pruning, rigging, hardware installation, electrical hazard awareness, aerial rescue, ground work, and work site management.							C. KONIECZKA	\$378.00	\$39.00	\$45.00	\$462.00
	Prerequisites: HOR-262							Required: Student Petition. Contact: chrisk@clackamas.edu.				
								Corequisite: Take the following CWE-281-06.				
	OC LCT	HOR-264-01	333992 F		10-12:30 PM		XHOR-	ORCHARD CARE SEMINAR, 0 CREDIT				
			F		1-4:30 PM		0034	Learn how to care for your fruit bearing plants year-round! This half-day seminar featuring local horticultural and orcharding experts, will cover topics such as selection of fruiting plants, home orchard establishment, pruning basics, troubleshooting common pests & disease, and more.				
	J. WENTWORTH-PLATO	\$252.00	\$26.00	\$95.00	\$373.00			OC	XHOR-0034-	334342 S		9-12:50 PM
	If you have arboriculture industry experience and wish to take this class, contact jimwp@clackamas.edu.								01			
	HOR-280	HORTICULTURE/CWE, 3 CREDITS							T. LORDY			
	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.								Required: Student Petition. Meets: Saturday, Dec. 7. Register at https://bit.ly/horteventbrite Fee: \$35. Contact Loretta at lorettam@clackamas.edu with questions.			
	Corequisites: CWE-281											
	OC LCT	HOR-280-01	333994				XHOR-	FALL MASON BEE CARE, 0 CREDIT				
							0035	Learn all about caring for mason bees and harvesting cocoons! In this hands-on workshop students will learn how to harvest, inspect, and clean mason bee cocoons. We will look for and learn about pests and diseases that commonly attack mason bees, and explore tips for prevention. Students who have mason bee housing of their own at home, are welcome to bring their own nesting devices and we will show you how to open and clean your own cocoons if you'd like. Students who do not already have mason bees, will get to practice with ours. At the end of the workshop, every student will take home about 20 cocoons of their own. This workshop is always a participant favorite!!				
	C. KONIECZKA	\$378.00	\$39.00	\$45.00	\$462.00			OC	XHOR-0035-	334343 S		10-1:00 PM
	Required: Student Petition. Contact: chrisk@clackamas.edu.								01			
	Corequisite: Take the following CWE-281-06.								T. LORDY			
	HOR-281	HORTICULTURE/CWE, 6 CREDITS							Required: Student Petition. Meets: Saturday, Nov. 2. Register at https://bit.ly/horteventbrite Fee: \$45. Contact Loretta at lorettam@clackamas.edu with questions.			
	On-the-job experience in the student's major course of study. Students are expected to work a minimum of 180 job site hours. May be repeated for up to 12 credits. Required: Student Petition.											
	Corequisites: CWE-281											
	OC LCT	HOR-281-01	333996				XHOR-	APPRENTICE APPLICATOR LICENSE RECERTIFICATION, SPANISH, 0.80 CEUS				
							C001	Class fulfills the Oregon Department of Agriculture training continuing education requirements for renewing the Apprentice Applicator License certification. Clase cumple con los requisitos de capacitación de Oregon Department of Argriculture para la recertificación de licencia de aprendiz aplicador.				
	C. KONIECZKA	\$756.00	\$78.00	\$45.00	\$879.00							
	Required: Student Petition. Contact: chrisk@clackamas.edu.											
	Corequisite: Take the following CWE-281-06.											

Campus Locations:
HAR: Harmony Community Campus
OC: Oregon City Campus
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Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time	Total	Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time	Total
	Instructor		Tuition	Fee	Crs. Fee			Instructor		Tuition	Fee	Crs. Fee	
OC ESPAÑOL	XHOR-C001-01 L. CERVANTES Required: Student Petition. Meets: 11/22. Fee: \$80. Eventbrite registration at https://bit.ly/horteventbrite Contact Loretta Mills at lorettam@clackamas.edu with questions.	334348	F		8-4:50 PM		OC	XHOR-C032-01 K. MCCALEB Required: Student Petition. Two-day workshop on 11/1 & 11/2. Fee: \$160. Eventbrite registration at https://bit.ly/horteventbrite Contact Loretta Mills at lorettam@clackamas.edu with questions.	334357	FS		8-4:50 PM	
XHOR-C010	JAPANESE-STYLE PRUNING, 0.40 CEUS 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 lead 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.						XHOR-C036	LANDSCAPE BOULDER SETTING, 0.40 CEUS Learn the art of boulder setting for landscapes with Masa Mizuno, a highly-respected master of Japanese garden cultivation. He has worked for decades with established Japanese gardens throughout the Pacific Northwest, and has led his own landscape design/install firm for over 30 years. This workshop is intended to train your eye to view and then place boulders in an artistic way. Participants will be working outdoors with boulders. Wear appropriate clothing, closed toed shoes and bring gloves.					
OC	XHOR-C010-01 M. MIZUNO Required: Student Petition. Meets: 10/4. Fee: \$40. Eventbrite registration at https://bit.ly/horteventbrite Contact Loretta Mills at lorettam@clackamas.edu with questions.	334353	F		1-4:50 PM		OC	XHOR-C036-01 M. MIZUNO Required: Student Petition. Meets: Saturday 10/11. Details and registration at https://bit.ly/horteventbrite Fee: \$40. Contact Loretta at lorettam@clackamas.edu with questions.	334358	F		1-4:50 PM	
XHOR-C026S	INSTALACIÓN Y MANTENIMIENTO DEL SISTEMA DE RIEGO PAISAJÍSTICO EN ESPAÑOL, 1.20 CEUS Aprende los conceptos básicos de la instalación y el mantenimiento de 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.						XHOR-C06A	PESTICIDE CORE TRAINING-FALL, 0.40 CEUS 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.					
OC ESPAÑOL	XHOR-C026S-01 J. RODRIGUEZ CRUZ Required: Student Petition. Encuentros: viernes 1/1, 1pm-5pm y sábado 11/2, 8am-5pm. Regístrese a https://bit.ly/horteventbrite Costo: \$80. Póngase en contacto con Loretta en lorettam@clackamas.edu si tiene preguntas. Meets: Friday 11/1, 1pm-5pm and Saturday 11/2, 8am-5pm. Register at https://bit.ly/horteventbrite Fee: \$80. Contact Loretta at lorettam@clackamas.edu with questions.	334354	F S		1-5:00 PM 8-5:00 PM		OC	XHOR-C06A-01 G. COOKE Required: Student Petition. Meets: Nov 22. Fee \$40. Eventbrite registration at https://bit.ly/horteventbrite Contact Loretta Mills at lorettam@clackamas.edu with questions.	334360	F		8-11:50 AM	
XHOR-C032	FOUNDATIONS OF IRRIGATION DESIGN, 1.60 CEUS Take your landscape designs to the next level by learning fundamentals of irrigation design. Developed by Irrigation Association instructors with years of teaching experience, this beginner reference focuses on designing a simple residential or small commercial system. Participants complete two designs from start to finish during this fast-paced, two-day class. Organized to follow the typical design process, topics include gathering site information, calculating system capacity, soil-water-plant relationships, pipe sizing, hydraulics, head layout, uniformity, zoning and plan presentation. Qualifies for 16 Irrigation Association CEU's.						Human Services						
							HS-100	INTRODUCTION TO HUMAN SERVICES, 3 CREDITS This course provides an overview of the human services field. The course includes the history of human services with a focus on the diverse roots of the field. Students will get an overview of the various careers and educational options available in human services, as well as an opportunity to discuss the student's own abilities and goals.					
							OC HYB LCT	HS-100-01 Y. SMITH	334131 W			10-11:50 AM	
							OC HYB LCT	HS-100-02 Y. SMITH	334133 TH			10-11:50 AM	
													Meets on four Thursdays (10/3, 10/17, 10/31, & 12/5).
							HS-170	PREPARATION FOR FIELD EXPERIENCE IN HUMAN SERVICES, 1 CREDIT This course prepares students to complete fieldwork in Human Services. Covers developing learning objectives and creating successful field placements as well as the specific steps required to complete a Cooperative Work Experience at Clackamas Community College. Required: Student Petition.					

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

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

ONL	HS-170-01	337575				
Y. SMITH	\$126.00	\$13.00	\$0.00	\$139.00		

Required: Student Petition.

HS-206 TRAUMA INFORMED PRACTICES, 3 CREDITS

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

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

ONL	HS-206-01	334134				
C. BAKER	\$378.00	\$39.00	\$0.00	\$417.00		

HS-210 MOTIVATIONAL INTERVIEWING, 3 CREDITS

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

Recommended Prerequisites: HS-156

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

HS-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	337930 W		10-11:50 AM		
C. BAKER	\$252.00	\$26.00	\$0.00	\$278.00		

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

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

Prerequisites: HS-170

Corequisites: HS-270

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

Required: Student Petition.

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Instructor	Tuition	Fee	Crs. Fee			

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

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

Prerequisites: HS-170

Corequisites: HS-270

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

Required: Student Petition.

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

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

Corequisites: CWE-281

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

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

Required: Student Petition.

Humanities

HUM-235 PERSPECTIVES ON TERRORISM, 4 CREDITS

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

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

OC LCT	HUM-235-01	334165 TTH		1-2:50 PM		
J. FLOWERS	\$504.00	\$52.00	\$0.00	\$556.00		

No textbook required.

Industrial Maintenance Technology

IMT-104 READING SCHEMATICS AND SYMBOLS, 2 CREDITS

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

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

Journalism

J-211 MASS MEDIA & SOCIETY, 4 CREDITS

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

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

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

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

Other Coding Translations:
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LCT: Low-Cost Text

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total	Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
	Instructor	Tuition	Fee	Crs. Fee				Instructor	Tuition	Fee	Crs. Fee		
	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							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-215-01 M. JONES	333334 MW \$504.00	1-2:50 PM \$52.00	\$10.00	\$566.00		OC LCT	J-227-01 M. JONES	333353 T \$504.00	1-4:50 PM \$52.00	\$0.00	\$556.00	
J-220	PODCASTING AND VIDEO JOURNALISM, 4 CREDITS Students will learn to produce and publish audio and video news stories for a variety of media, including podcasting platforms, YouTube and social media. Recommended Prerequisites: WRD-098 or placement in WR-121Z						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					
REM LCT	J-220-01 J. SONNENMAIR	333337 T \$504.00	10-11:50 AM \$52.00	\$10.00	\$566.00 Additional hours online.		OC LCT	J-228-01 M. JONES	333357 T \$504.00	1-4:50 PM \$52.00	\$0.00	\$556.00	
J-221	INTERMEDIATE PODCASTING AND VIDEO JOURNALISM, 4 CREDITS Students will learn intermediate skills to produce and publish audio and video news stories for a variety of media, including podcasting platforms, YouTube and social media. Prerequisites: J-220 with a C or better Recommended Prerequisites: WRD-098 or placement in WR-121Z						J-235	ADVANCED COLLEGE NEWS: WRITING & PHOTOGRAPHY, 4 CREDITS Advanced news writing and photography for publication online, in social media and in the student-run newspaper, The Clackamas Print. Students apply Associated Press style, use journalism ethics and cover a variety of topics and events in words and photos to build their journalism portfolios. May be repeated for up to 8 credits. Prerequisites: J-225 Recommended Prerequisites: Placement in WR-121Z					
REM LCT	J-221-01 J. SONNENMAIR	333343 T \$504.00	10-11:50 AM \$52.00	\$10.00	\$566.00 Additional hours online.		OC LCT	J-235-01 M. JONES	333360 MW \$504.00	1-2:50 PM \$52.00	\$0.00	\$556.00	
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						J-280	JOURNALISM/CWE, 2-6 CREDITS Cooperative work experience. Provides the student with on-the-job experience and training related to journalism. Required: Student Petition. Corequisites: CWE-281					
OC LCT	J-225-01 M. JONES	333348 MW \$504.00	1-2:50 PM \$52.00	\$0.00	\$556.00		ONL LCT	J-280-01 M. JONES	333361 \$756.00	\$78.00	\$45.00	\$879.00V Required: Student Petition.	
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						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.					
OC LCT	J-226-01 M. JONES	333350 T \$504.00	1-4:50 PM \$52.00	\$10.00	\$566.00		ONL LCT	J-280A-01 M. JONES	333372 \$756.00	\$78.00	\$45.00	\$879.00V Required: Student Petition.	
J-227	INTERMEDIATE COLLEGE NEWS: DESIGN & PRODUCTION, 4 CREDITS												

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	Instructor						Crs. Fee	
ONL LCT	LIB-101-02 334032	TBA			\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 9/30-11/30.							
ONL LCT	LIB-101-03 334034	TBA			\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 9/30-11/30.							
ONL LCT	LIB-101-04 337587	S. NOLAN			\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 10/14-12/14.							

Machine Tool Technology

MTT-111 MANUAL MACHINING I, 4 CREDITS

This course is an introduction to machine tool operation and precision measurement. It covers elementary operation of drill presses, bandsaws, lathes, and milling machines. The course includes external threading.

Recommended Prerequisite or Corequisite: MFG-104 and MTH-050

oc	MTT-111-01 334081 MW	J. TRAYER			\$504.00	\$52.00	\$205.00	\$761.00
							8-11:50 AM	

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

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

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

MTT-241 CAD/CAM II, 4 CREDITS

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

Prerequisites: MTT-122 and MTT-141

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

MTT-252 MACRO PROGRAMMING AND MACHINE PROBING, 3 CREDITS

This course is an introduction to Fanuc-based, custom macro programming for individuals with some previous G&M-code programming experience. Students will learn to define and apply macro variables, program branching, macro functions and operators and implement repetitive looping. Additional topics will include custom alarms and assignment of G & M codes to macros. Students will write and prove out programs on HAAS CNC controls utilizing all basic functions of the language using Renishaw touch probes.

Recommended Prerequisites: MTT-122 or competence with basic G&M-code mill programming (FANUC/Haas-style)

oc	MTT-252-01 334095 MW	C. LETTENMAIER			\$378.00	\$39.00	\$153.75	\$570.75
							1-3:50 PM	

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.

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	Instructor						Crs. Fee	
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							
OC HYB LCT	MFG-103-01 334042 TTH	J. CARLSTON			\$378.00	\$39.00	\$153.75	\$570.75
							12:30 -3:20 PM	
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	MFG-104-01 334046 TTH	C. CONNORS			\$378.00	\$39.00	\$153.75	\$570.75
							3:30 -4:50 PM	
MFG-106	ADVANCED APPLIED GEOMETRIC DIMENSIONING AND TOLERANCING FOR MANUFACTURING, 3 CREDITS							
	Introduces participants to the application of gauging and inspection using Geometric Dimensioning and Tolerancing (GDT). Students will identify inspection equipment and inspect GDT characteristics while experiencing their manufacturing implications.							
	Prerequisites: MFG-104							
OC HYB	MFG-106-01 334051 M	P. WANNER			\$378.00	\$39.00	\$153.75	\$570.75
							4:30 -7:20 PM	
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 334054 F	L. HILLYARD			\$378.00	\$39.00	\$153.75	\$570.75
							1-3:50 PM	
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 334060 F	A. ARISTIZABAL			\$378.00	\$39.00	\$282.19	\$699.19
							8-10:50 AM	
	Online textbook included in section fees.							
MFG-110	MANUFACTURING SPECIAL PROJECTS, 1 CREDIT							
	Allows students a great deal of latitude in project selection, design & production utilizing manual machine tools, CNC machine tools, CAD/CAM and electrical discharge machines. A solid understanding of all basic machine tools is expected. May be repeated for up to 9 credits. Required: Student Petition.							
oc	MFG-110-01 334062 MW	C. LETTENMAIER			\$126.00	\$13.00	\$51.25	\$190.25
							8-9:20 AM	
	Required: Student Petition.							

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	Instructor		Tuition	Fee	Crs. Fee	

MFG-130 BASIC ELECTRICITY I, 3 CREDITS
 Explores fundamentals of AC and DC electricity. Includes: atomic structure, direct current, alternating current, Ohm's law, series, parallel, and combination circuits, DC circuit theorems, production of DC voltages, magnetic principles, transformers, motors and generators.

oc	MFG-130-01	334064 F			5-7:50 PM	
	B. KARM		\$378.00	\$39.00	\$153.75	\$570.75

MFG-218 LEAN MANUFACTURING AND QUALITY SYSTEMS, 3 CREDITS

This survey course provides students with literacy in the elements of quality systems including Lean Manufacturing/Six Sigma and related statistical methods. Participants will learn about the philosophy and tools that make up a lean manufacturing system. Students will become familiar with the concepts and tools of quality management which include kaizen, visual management, 5S, value stream mapping, A3 problem solving, SPC, Six Sigma, and the Toyota Production System.

oc	MFG-218-01	334066 TTH			5-6:20 PM	
	C. CONNORS		\$378.00	\$39.00	\$153.75	\$570.75

MFG-221 MATERIALS SCIENCE, 3 CREDITS

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	334068 TTH			10-12:50 PM	
	M. MATTSON		\$378.00	\$39.00	\$153.75	\$570.75

MFG-271 MASTERCAM MILL I, 4 CREDITS

Covers the creation and manipulation of two and three dimensional wire frame models as well as the creating, editing, and verification of 2-1/2 axis toolpaths. A fundamental understanding of the CAD/CAM process will be gained.

REM	MFG-271-01	334071 TTH			4:30 -8:20 PM	
	C. LETTENMAIER		\$504.00	\$52.00	\$205.00	\$761.00

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

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

Corequisites: CWE-281

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

Mathematics

MTH-010 FUNDAMENTALS OF ARITHMETIC I, 4 CREDITS

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

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

MTH-020 FUNDAMENTALS OF ARITHMETIC II, 4 CREDITS

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

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

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

HAR LCT	MTH-020-01	334177 TTH			10-11:50 AM	
	M. NICKAS		\$504.00	\$52.00	\$20.00	\$576.00
ONL LCT	MTH-020-02	334183				
	M. NICKAS		\$504.00	\$52.00	\$20.00	\$576.00

MTH-020ES FUNDAMENTOS DE ARITMÉTICA II, 4 CREDITS

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

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

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

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

MTH-050 TECHNICAL MATHEMATICS I, 4 CREDITS

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

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

oc HYB LCT	MTH-050-01	334185 TTH			10-11:20 AM	
	M. CHASE		\$504.00	\$52.00	\$20.00	\$576.00
oc HYB LCT	MTH-050-03	334191 MW			1-2:20 PM	
	B. WEBBER		\$504.00	\$52.00	\$20.00	\$576.00
oc HYB LCT	MTH-050-04	337589 MW			6-7:20 PM	
	TBA		\$504.00	\$52.00	\$20.00	\$576.00

MTH-050ES MATEMÁTICAS TÉCNICAS I, 4 CREDITS

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

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

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

MTH-060 ALGEBRA I, 4 CREDITS

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

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

oc HYB LCT	MTH-060-01	334195 TTH			1-2:20 PM	
	E. MEUSER		\$504.00	\$52.00	\$20.00	\$576.00
oc HYB LCT	MTH-060-10	334198 TBA				
	A. ARISTIZABAL		\$504.00	\$52.00	\$20.00	\$576.00
	Meets for in-person testing dates only; the section is otherwise asynchronous.					

Campus Locations:
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Other Coding Translations:
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VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course No	Course Title, Credits		Days (M,T,W,TH,F,S,SU)	Time			Course No	Course Title, Credits		Days (M,T,W,TH,F,S,SU)	Time		
	Section No	Crs Reg.	Tuition	Fee	Crs. Fee	Total		Section No	Crs Reg.	Tuition	Fee	Crs. Fee	Total
HAR LCT	MTH-060-15	334201 MW			9-10:50 AM		OC HYB LCT	MTH-095-03	334227 MW			1-2:20 PM	
	A. ARISTIZABAL	\$504.00	\$52.00	\$20.00	\$576.00			S. VALDES-FERNANDEZ	\$504.00	\$52.00	\$20.00	\$576.00	
HAR LCT	MTH-060-16	334203 TTH			6-7:50 PM		OC HYB LCT	MTH-095-04	334231 TTH			1-2:20 PM	
	B. WEBBER	\$504.00	\$52.00	\$20.00	\$576.00			TBA	\$504.00	\$52.00	\$20.00	\$576.00	
MTH-065 ALGEBRA II, 4 CREDITS							OC HYB LCT MTH-095-05 334234 MW 3-4:20 PM						
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.							J. KUOHA \$504.00 \$52.00 \$20.00 \$576.00						
Prerequisites: MTH-060 with a C or better, or placement in MTH-065							OC HYB LCT MTH-095-10 334235 TBA						
OC HYB LCT	MTH-065-01	334206 MW			10-11:20 AM			M. HAUGEN	\$504.00	\$52.00	\$20.00	\$576.00	
	J. KUOHA	\$504.00	\$52.00	\$20.00	\$576.00		Meets for in-person testing dates only; the section is otherwise asynchronous.						
OC HYB LCT	MTH-065-02	334212 TTH			1-2:20 PM		HAR HYB LCT	MTH-095-15	334239 W			6-7:50 PM	
	A. HALL	\$504.00	\$52.00	\$20.00	\$576.00			B. WEBBER	\$504.00	\$52.00	\$20.00	\$576.00	
OC HYB LCT	MTH-065-03	334214 W			1-3:50 PM		MTH-098 COLLEGE MATH FOUNDATIONS, 4 CREDITS						
	A. HALL	\$504.00	\$52.00	\$20.00	\$576.00		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.						
OC HYB LCT	MTH-065-10	334215 TBA					Prerequisites: MTH-020 with a C or better, or placement in MTH-050, MTH-060, or MTH-098						
	A. ARISTIZABAL	\$504.00	\$52.00	\$20.00	\$576.00		OC HYB LCT	MTH-098-01	334241 TTH			10-11:20 AM	
Meets for in-person testing dates only; the section is otherwise asynchronous.							M. YANNOTTA \$504.00 \$52.00 \$20.00 \$576.00						
HAR LCT	MTH-065-15	334219 MW			9-10:50 AM		OC HYB LCT	MTH-098-02	334244 MW			1-2:20 PM	
	A. ARISTIZABAL	\$504.00	\$52.00	\$20.00	\$576.00			K. PHILLIPS	\$504.00	\$52.00	\$20.00	\$576.00	
HAR LCT	MTH-065-16	334221 TTH			6-7:50 PM		ONL LCT	MTH-098-10	334246				
	B. WEBBER	\$504.00	\$52.00	\$20.00	\$576.00			M. JOSI	\$504.00	\$52.00	\$20.00	\$576.00	
MTH-082A WASTEWATER MATH I, 1 CREDIT							ONL LCT MTH-098-11 334247						
Quantitative component to understanding wastewater operations. Simple unit conversions, fraction to decimal conversions and more complicated problem solving as applied to wastewater preliminary & primary treatment.							K. AMREIN \$504.00 \$52.00 \$20.00 \$576.00						
Corequisites: WET-110							MTH-105Z MATH IN SOCIETY, 4 CREDITS						
OC HYB	MTH-082A-01	334077 M			5-5:50 PM		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.						
	M. LAFORCE	\$126.00	\$13.00	\$10.00	\$149.00		Prerequisites: MTH-095 or MTH-098 with a C or better, or placement in MTH-111Z						
MTH-082B WATERWORKS MATH I, 1 CREDIT							Recommended Prerequisites: WRD-098 or placement in WR-121Z						
Problem solving for waterworks applications. Introduction to basic algebra and mathematical concepts, conversions, and calculations encountered in the waterworks industry.							OC HYB LCT MTH-105Z-01 334249 MW 10-11:20 AM						
Corequisites: WET-111							S. VALDES-FERNANDEZ \$504.00 \$52.00 \$20.00 \$576.00						
OC HYB	MTH-082B-01	334078 T			5-5:50 PM		OC HYB LCT	MTH-105Z-02	334253 T			10-11:50 AM	
	J. NURMI	\$126.00	\$13.00	\$10.00	\$149.00			E. MEUSER	\$504.00	\$52.00	\$20.00	\$576.00	
MTH-082E MATH FOR HIGH PURITY WATER, 1 CREDIT							OC HYB LCT MTH-105Z-03 334254 W 1-2:50 PM						
Basic math for high purity water concepts. Measurement accuracy, rounding rules & errors, significant figures, scientific notation, metric prefixes, simple statistics, average & standard deviation of a population.							M. YANNOTTA \$504.00 \$52.00 \$20.00 \$576.00						
Corequisites: WET-125							OC HYB LCT MTH-105Z-04 337596 TTH 1-2:20 PM						
REM	MTH-082E-01	334079 W			2-2:50 PM			S. VALDES-FERNANDEZ	\$504.00	\$52.00	\$20.00	\$576.00	
	G. CARR	\$126.00	\$13.00	\$10.00	\$149.00		ONL LCT	MTH-105Z-10	334256				
MTH-095 ALGEBRA III, 4 CREDITS							C. KYSER \$504.00 \$52.00 \$20.00 \$576.00						
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.							ONL LCT MTH-105Z-11 334257						
Prerequisites: MTH-065 with a C or better, or placement in MTH-095							M. YANNOTTA \$504.00 \$52.00 \$20.00 \$576.00						
OC HYB LCT	MTH-095-01	334223 W			9-11:50 AM		HAR HYB LCT	MTH-105Z-15	337598 TTH			6-7:20 PM	
	TBA	\$504.00	\$52.00	\$20.00	\$576.00			K. MERCER	\$504.00	\$52.00	\$20.00	\$576.00	
OC HYB LCT	MTH-095-02	334226 TTH			10-11:20 AM								
	J. HEVEL	\$504.00	\$52.00	\$20.00	\$576.00								

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HYB: In-person plus online work

Other Coding Translations:
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VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

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

MTH-111Z PRECALCULUS I: FUNCTIONS, 4 CREDITS

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

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

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

MTH-112Z PRECALCULUS II: TRIGONOMETRY, 4 CREDITS

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

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

OC LCT	MTH-112Z-01	334273 MW				10-11:50 AM
	F. CARTER	\$504.00	\$52.00	\$20.00		\$576.00
OC LCT	MTH-112Z-02	337599 TTH				1-2:50 PM
	F. CARTER	\$504.00	\$52.00	\$20.00		\$576.00
OC HYB LCT	MTH-112Z-10	334279 TBA				
	M. HAUGEN	\$504.00	\$52.00	\$20.00		\$576.00
	Meets for 3 in-person testing dates only; the section is otherwise asynchronous.					
HAR LCT	MTH-112Z-15	334281 MW				6-7:50 PM
	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

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

MTH-213 FUNDAMENTALS OF ELEMENTARY MATH III, 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
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HYB: In-person plus online work

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

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

Prerequisites: MTH-211
Recommended Prerequisites: WRD-098 or placement in WR-121Z

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

MTH-244 STATISTICS II, 4 CREDITS

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

Prerequisites: STAT-243Z with a C or better
Recommended Prerequisites: WRD-098 or placement in WR-121Z

OC HYB LCT	MTH-244-01	334287 MW				1-2:20 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

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

MTH-252 CALCULUS II, 5 CREDITS

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

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

OC HYB LCT	MTH-252-01	334296 MW				10-11:50 AM
	M. PARTNOF	\$630.00	\$65.00	\$20.00		\$715.00
OC HYB LCT	MTH-252-02	334300 TTH				1-2:50 PM
	M. PARTNOF	\$630.00	\$65.00	\$20.00		\$715.00

MTH-253 CALCULUS III, 5 CREDITS

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

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

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

MTH-254 VECTOR CALCULUS, 5 CREDITS

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

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

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

Prerequisites: MTH-252 with a C or better

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

MTH-261 LINEAR ALGEBRA, 4 CREDITS

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

Prerequisites: MTH-252 with a C or better

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

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

Medical Assistant

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

MA-150 MEDICAL OFFICE PRACTICES, 4 CREDITS

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

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

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

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

Required: Student must be enrolled in current Medical Assistant cohort

Recommended Prerequisites: MA-100 and PSY-101

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

MA-152 EXAMINATION ROOM TECHNIQUES I, 3 CREDITS

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

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

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

Corequisites: MA-150, MA-152L, MA-154, and MA-158

Required: Student must be enrolled in current Medical Assistant cohort

Recommended Prerequisites: MA-100 and PSY-101

ONL	MA-152-01	333200				
	S. PARKER	\$378.00	\$39.00	\$0.00	\$417.00	

MA-152L EXAMINATION ROOM TECHNIQUES I LAB, 1 CREDIT

This lab is designed to apply the hands-on skills that were introduced to students in the lecture class. This lab will cover hands-on skills required for medical assisting in an exam room setting. The lab will focus on the basic skills needed for patient interactions, documentation, and vital signs.

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VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

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

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

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

Corequisites: MA-150, MA-152, MA-154, and MA-158

Required: Student must be enrolled in current Medical Assistant cohort

Recommended Prerequisites: MA-100 and PSY-101

HAR	MA-152L-01	333201	T		9-11:50 AM	
	S. DAVENPORT	\$126.00	\$13.00	\$100.00	\$239.00	
	S. PARKER					
HAR	MA-152L-02	333202	TH		9-11:50 AM	
	S. DAVENPORT	\$126.00	\$13.00	\$100.00	\$239.00	
	S. PARKER					

MA-154 BODY SYSTEMS AND PHARMACOLOGY, 4 CREDITS

Introduces the medical assistant student to the foundational concepts and principles of pharmacology; including the classifications of common medications including indications for use, desired effect, side effect, adverse effects, and patient education. Related pathophysiology and body systems will be discussed and reviewed.

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

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

Corequisites: MA-150, MA-152, MA-152L, and MA-158

Required: Student must be enrolled in current Medical Assistant cohort

Recommended Prerequisites: MA-100 and PSY-101

HAR HYB	MA-154-01	333203	T		1-2:50 PM	
	S. DAVENPORT	\$504.00	\$52.00	\$40.00	\$596.00	

MA-158 SEMINAR I, 2 CREDITS

This course introduces professionalism in the healthcare setting and explores clinical placement opportunities. Students will demonstrate compliance with Oregon Health Authorities rules for students in clinical training and obtain volunteer experience with a community partner.

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

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

Corequisites: MA-150, MA-152, MA-152L, and MA-154

Required: Student must be enrolled in current Medical Assistant cohort

Recommended Prerequisites: MA-100 and PSY-101

HAR	MA-158-01	333204	W		9-10:50 AM	
	S. PARKER	\$252.00	\$26.00	\$0.00	\$278.00	

Music

MUP-102 WIND ENSEMBLE, 2 CREDITS

For non-majors and music majors. Introduction and study of traditional and contemporary band literature. This course is taken each term in one's first year of a two-year course of study that includes performance, study of common styles and practices of historically and culturally significant composers/arrangers, and study of historical issues related to the development and performance of band literature. Provides a thorough groundwork in the fundamental ideas, techniques, and practices of band music and ensemble performance. No audition required. May be repeated for up to 6 credits.

Required: Completion of high school or high school performance level. Ability to read music and play a band instrument

OC LCT	MUP-102-01	333218	TTH		3-4:50 PM	
	L. CAMPBELL	\$252.00	\$26.00	\$0.00	\$278.00	

MUP-104 PEP BAND/COMBO-IMPROV, 1 CREDIT

Instrumental performing group concentrating on rock, pop, and contemporary styles in the small to medium-sized group setting. No audition required. May be repeated for up to 8 credits.

Course No	Course Title, Credits						Course No	Course Title, Credits					
	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total		Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total		
	Instructor	Tuition	Fee	Crs. Fee			Instructor	Tuition	Fee	Crs. Fee			
Recommended Prerequisites: MUP-105 or MUP-125													
OC LCT	MUP-104-01	333219 M		12-12:50 PM			OC LCT	MUP-150-01	333227 MW		1-2:50 PM		
	C. DOGGETT	\$126.00	\$13.00	\$0.00	\$139.00		K. DEITZ	\$252.00	\$26.00	\$50.00	\$328.00		
							K. HOLLINGSWORTH						
							Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.						
MUP-105 JAZZ ENSEMBLE, 2 CREDITS													
For non-majors and music majors. Introduction and study of common 'big-band' and small-group jazz styles. This course is taken each term in one's first year of a two-year course of study that includes performance, improvisation, musical arranging and writing, study of common styles and practices of historically and culturally significant jazz artists, and study of historical issues related to the development and performance of jazz music. May be repeated for up to 6 credits.													
Recommended Prerequisites: MUP-102													
OC LCT	MUP-105-01	333220 MW		3-4:50 PM			OC LCT	MUP-158-01	333228 TH		1-2:50 PM		
	L. CAMPBELL	\$252.00	\$26.00	\$0.00	\$278.00		D. TUTMARK	\$126.00	\$13.00	\$85.00	\$224.00		
							Guitar Ensemble.						
MUP-122 VOCAL ENSEMBLE, 2 CREDITS													
An introductory performance ensemble open to all students wishing to sing in a choral ensemble. Designed for non-majors and majors who need preparation for MUP-125.													
Recommended: A desire to sing in a large and fun ensemble. An interest in exploring the roots of American music													
OC LCT	MUP-122-01	333222 TTH		3-4:50 PM			OC LCT	MUP-158-02	333230 TBA				
	K. HOLLINGSWORTH	\$252.00	\$26.00	\$52.00	\$330.00		G. HARRIS	\$126.00	\$13.00	\$85.00	\$224.00		
							Saxophone Quartet.						
							OC LCT	MUP-158-03	337723 TBA				
							TBA	\$126.00	\$13.00	\$85.00	\$224.00		
							Brass Quintet.						
							OC LCT	MUP-158-04	337724 TBA				
							TBA	\$126.00	\$13.00	\$85.00	\$224.00		
							Woodwind Quintet.						
MUP-202 WIND ENSEMBLE, 2 CREDITS													
For non-majors and music majors. Introduction and study of traditional and contemporary band literature. This is the second year of a two-year course of study that includes performance, study of common styles and practices of historically and culturally significant composers/arrangers, and study of historical issues related to the development and performance of band literature. Provides a thorough groundwork in the fundamental ideas, techniques, and practices of band music and ensemble performance. No audition required. May be repeated for up to 6 credits.													
Required: Completion of high school or high school performance level. Ability to read music and play a band instrument													
Prerequisites: MUP-102 (6 credits)													
OC LCT	MUP-202-01	333290 TTH		3-4:50 PM			OC LCT	MUP-204-01	333291 M		12-12:50 PM		
	L. CAMPBELL	\$252.00	\$26.00	\$0.00	\$278.00		C. DOGGETT	\$126.00	\$13.00	\$0.00	\$139.00		
							Required: 1 hour a week TBA.						
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-141-01	333224 TBA					OC LCT	MUP-204-01	333291 M		12-12:50 PM		
	L. CAMPBELL	\$126.00	\$13.00	\$0.00	\$139.00		C. DOGGETT	\$126.00	\$13.00	\$0.00	\$139.00		
	Required: Student Petition.						Required: 1 hour a week TBA.						
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	333224 TBA					OC LCT	MUP-204-01	333291 M		12-12:50 PM		
	L. CAMPBELL	\$126.00	\$13.00	\$0.00	\$139.00		C. DOGGETT	\$126.00	\$13.00	\$0.00	\$139.00		
	Required: Student Petition.						Required: 1 hour a week TBA.						
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													
Prerequisites: MUP-105 (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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
	Instructor		Tuition	Fee	Crs. Fee	
OC LCT	MUP-205-01 333295 MW L. CAMPBELL		\$252.00	\$26.00	\$0.00	\$278.00

MUP-222 CHAMBER CHOIR, 2 CREDITS

Advanced vocal ensemble which rehearses and performs choral music from the Renaissance to the 21st century. Provides preparation for entering professional fields of music and performance. Emphasis on a cappella singing applied to appropriate chamber music. Recommended for vocal music majors. Enrollment by audition. May be repeated for up to 6 credits.

Prerequisites: MUP-122 (6 credits)

OC LCT	MUP-222-01 333296 TTH K. HOLLINGSWORTH		\$252.00	\$26.00	\$52.00	\$330.00
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Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.

MUP-225 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	MUP-225-01 333298 MW K. HOLLINGSWORTH		\$252.00	\$26.00	\$52.00	\$330.00
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Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.

MUP-241 COLLEGE ORCHESTRA, 1 CREDIT

Performance and study of orchestral literature. College students may earn credit for playing in one of several approved orchestral groups. Minimum of one performance per term. May be repeated for up to 8 credits. Required: Student Petition.

OC LCT	MUP-241-01 333301 TBA L. CAMPBELL		\$126.00	\$13.00	\$0.00	\$139.00
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Required: Student Petition.

MUS-101 MUSIC FUNDAMENTALS, 3 CREDITS

Introduction to fundamentals of reading and writing music. Designed for non-majors or majors needing substantial preparation for MUS-111.

ONL	MUS-101-01 333389 J. HEDBERG		\$378.00	\$39.00	\$10.00	\$427.00
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MUS-102 APPLIED MUSIC FUNDAMENTALS, 3 CREDITS

The first of a 3 course introduction to the fundamentals of music theory. Designed for MPT/MT or AS Transfer students who need substantial preparation for MUS-111 and non-majors.

OC LCT	MUS-102-01 337722 T TH		\$378.00	\$39.00	\$10.00	\$427.00
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K. HOLLINGSWORTH

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.

Campus Locations:

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

Distance Education Notification:

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

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

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

ONL	MUS-105-01 333391 J. HEDBERG		\$378.00	\$39.00	\$0.00	\$417.00
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MUS-106 AUDIO RECORDING AT HOME, 1 CREDIT

An overview of the basic tools and techniques used in audio recording at home. Depending on participant needs, topics may include signal path, microphone applications, software, hardware, outboard gear, soldering techniques, tracking, mixing, and editing.

OC LCT	MUS-106-01 333394 F S B. ROSE		\$126.00	\$13.00	\$99.00	\$238.00
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Meets: 10/25 & 10/26.

MUS-107 INTRODUCTION TO AUDIO RECORDING I, 3 CREDITS

Introduction to the basic techniques and tools used in audio recording. Areas of study include signal path, microphone applications, software, hardware, outboard gear, tracking, mixing, and editing.

OC	MUS-107-01 333398 M D. BADSTUBNER		\$378.00	\$39.00	\$99.00	\$516.00
OC	MUS-107-02 333403 M D. BADSTUBNER		\$378.00	\$39.00	\$99.00	\$516.00

MUS-108 INTRODUCTION TO AUDIO RECORDING II, 3 CREDITS

Exploration of techniques and tools used in audio recording. Analog, digital, and hard drive recording will be explored. Areas of study include multi-tracking, signal path, microphone applications, software, hardware, outboard gear, soldering techniques, tracking, mixing, and editing. Software/hardware includes ProTools, ADAT, Mackie, etc.

Prerequisites: MUS-107

OC	MUS-108-01 333405 T D. BADSTUBNER		\$378.00	\$39.00	\$99.00	\$516.00
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MUS-109 INTRODUCTION TO AUDIO RECORDING III, 3 CREDITS

Exploration of digital recording/editing software and production of CD project. Advanced exploration of techniques and tools used in audio recording. Areas of study include signal path, microphone applications, software, hardware, outboard gear, tracking, mixing, and editing. Analog, digital, and hard drive recording will be explored. Software/hardware includes ProTools, ADAT, Mackie, etc.

Prerequisites: MUS-108

OC	MUS-109-01 333413 T D. BADSTUBNER		\$378.00	\$39.00	\$99.00	\$516.00
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MUS-111 MUSIC THEORY I, 3 CREDITS

For non-majors and music majors. Presents an introduction to the diatonic and chromatic structure of tonal music from the common practice period through written exercises, listening, and analysis. This is the first term of a three-term sequence, which includes concepts of pitch and rhythm, intervals, keys, scales, triads, dominant seventh chord, and standard cadences. Provides a thorough groundwork in the melodic, harmonic, and rhythmic elements of music.

Corequisites: MUS-111L, MUS-114, and MUS-127 for AS in music degree seekers. This requirement does not affect non-music majors or MPT Majors

Recommended Prerequisites: MTH-095 or placement in MTH-111Z; WRD-098 or placement in WR-121Z

OC	MUS-111-01 333418 TTH R. OLASON		\$378.00	\$39.00	\$0.00	\$417.00
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MUS-111L MUSIC NOTATION SOFTWARE I, 1 CREDIT

Other Coding Translations:

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course No	Course Title, Credits					Course No	Course Title, Credits					
	Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time	Total		Section No	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Time	Total	
	Instructor		Tuition	Fee	Crs. Fee		Instructor		Tuition	Fee	Crs. Fee	
Introduces students to Finale (music notation software) on Macintosh computers.						MUS-143 INTRODUCTION TO ELECTRONIC MUSIC II: SEQUENCING, AUDIO LOOPING, SOUND EFX, 3 CREDITS						
oc	MUS-111L-01	333420 M			10-11:50 AM	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.						
	D. FLESCHNER		\$126.00	\$13.00	\$44.00	\$183.00	Prerequisites: MUS-142					
MUS-114 AURAL SKILLS I, 2 CREDITS						MUS-144 INTRODUCTION TO ELECTRONIC MUSIC III: DIGITAL AUDIO, 3 CREDITS						
First course in a year-long sequence. Diatonic sight singing in major keys using solfège syllables and moveable 'do'. Melodic dictation and aural recognition of intervals and triads.						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.						
Corequisites: MUS-111						Prerequisites: MUS-143						
oc	MUS-114-01	333424 TTH			1-1:50 PM	oc LCT	MUS-143-01	333440 TH			1-3:50 PM	
	R. OLASON		\$252.00	\$26.00	\$0.00	\$278.00	A. HAAK		\$378.00	\$39.00	\$99.00	\$516.00
MUS-127 KEYBOARD SKILLS I, 2 CREDITS						MUS-147 MUSIC, SOUND & MOVIE MAKING, 1 CREDIT						
Develops basic keyboard skills required for study of tonal harmony and various musical activities such as vocal and instrumental rehearsals, music education and composition.						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.						
Corequisites: MUS-111, MUS-111L, MUS-114						Prerequisites: MUS-143						
Recommended: Some experience in reading treble and bass clef, or MUS-131, MUS-132, or MUS-133 with a C or better												
oc	MUS-127-01	333427 TTH			2-2:50 PM	oc	MUS-144-01	333442 TH			1-3:50 PM	
	R. OLASON		\$252.00	\$26.00	\$10.00	\$288.00	A. HAAK		\$378.00	\$39.00	\$99.00	\$516.00
MUS-131 GROUP PIANO: PIANO FOR PLEASURE, 1 CREDIT						MUS-148 LIVE SOUND ENGINEERING, 3 CREDITS						
First of three courses in a year-long sequence. Beginning classroom piano instruction for non-music majors. Includes reading, theory, technical exercises, and the opportunity to share your music with others. Beginning to intermediate level.						Introduction to the basic techniques and tools used in live sound engineering and mixing. Areas of study include set up, signal path, microphone applications, hardware, and outboard gear.						
oc	MUS-131-01	333429 TTH			9-9:50 AM	oc LCT	MUS-147-01	333153 F			6:30 -8:50 PM	
	TBA		\$126.00	\$13.00	\$85.00	\$224.00		S			9-5:50 PM	
MUS-134 GROUP VOICE: ANYONE CAN SING, 1 CREDIT						B. ROSE						
Basic vocal techniques for the solo and ensemble singer. For music and non-music majors, voice and music education majors, and/or students who received a low rating on MUP-174 audition.						\$126.00 \$13.00 \$99.00 \$238.00						
oc	MUS-134-01	333431 T			1-2:50 PM	Meets: 10/18 & 10/19.						
	B. MICHAEL		\$126.00	\$13.00	\$85.00	\$224.00						
MUS-137 GROUP GUITAR I, 1 CREDIT						MUS-188 PERFORMANCE ATTENDANCE, 0 CREDIT						
For beginning to intermediate players. Covers finger picking, lead guitar, rock and popular styles, music reading, and music theory. Students provide own instrument.						The student is expected to attend a minimum of five live performances approved by the Music Department for each term registered.						
oc LCT	MUS-137-01	333433 TH			10-11:50 AM	oc	MUS-188-01	338093 TBA				
	D. TUTMARK		\$126.00	\$13.00	\$85.00	\$224.00	L. CAMPBELL		\$0.00	\$0.00	\$0.00	\$0.00
MUS-141 INTRODUCTION TO THE MUSIC BUSINESS, 3 CREDITS						Required: Music major meeting 10/3 room N119 12-1 pm.						
Explores business basics, songwriting, demos, agents, managers, copyrights, gig and concert promotion, publishing, licensing, and music business structures.						MUS-189 PERFORMANCE & REPERTOIRE, 1 CREDIT						
ONL LCT	MUS-141-01	333436				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.						
	D. FLESCHNER		\$378.00	\$39.00	\$0.00	\$417.00	oc LCT	MUS-189-01	333447 W			11-11:50 AM
MUS-142 INTRODUCTION TO ELECTRONIC MUSIC I: MIDI, 3 CREDITS						J. ISRAELS						
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.						\$126.00 \$13.00 \$0.00 \$139.00						
oc	MUS-142-01	333438 T			1-3:50 PM	oc LCT	MUS-189-02	337572 W			12-12:50 PM	
	D. BADSTUBNER		\$378.00	\$39.00	\$99.00	\$516.00	J. ISRAELS		\$126.00	\$13.00	\$0.00	\$139.00
						B. MICHAEL						

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

MUS-205 MUSIC LITERATURE: HISTORY OF JAZZ, 4 CREDITS
 For non-majors and music majors. Emphasis on engaging in the study of Jazz music and surrounding cultural/historical issues. Includes critical analysis, study of elements, forms, styles, composers, performers, cultural, and historical issues and events.

Recommended Prerequisites: WRD-098 or placement in WR-121Z
 ONL **MUS-205-01 333450**
 R. INOUE \$504.00 \$52.00 \$0.00 \$556.00

MUS-206 MUSIC LITERATURE: HISTORY OF ROCK, 4 CREDITS
 For non-majors and music majors. Emphasis on engaging in the study of Rock music and surrounding cultural/historical issues. Includes critical analysis, study of elements, forms, styles, composers, performers, cultural, and historical issues and events. An examination of Rock music as a contemporary social medium.

Recommended Prerequisites: WRD-098 or placement in WR-121Z
 OC LCT **MUS-206-01 333451 MW 10-11:50 AM**
 K. DEITZ \$504.00 \$52.00 \$0.00 \$556.00
 Required: Attendance at three concert field trips TBA.
 ONL **MUS-206-02 333452**
 J. HEDBERG \$504.00 \$52.00 \$0.00 \$556.00

MUS-211 MUSIC THEORY II, 3 CREDITS
 For non-majors and music majors. Continuation of the study of functional harmony through written exercises, compositions, listening, and analysis and introduction to polyphony. This is the first term of a three-term sequence, which includes late Renaissance polyphony, baroque counterpoint, and chromatic harmony.

Prerequisites: MUS-113
Corequisites: MUS-214 and MUS-224
 oc **MUS-211-01 333453 MW 10-11:20 AM**
 R. OLASON \$378.00 \$39.00 \$269.00 \$686.00

MUS-214 KEYBOARD SKILLS II, 2 CREDITS
 Advanced keyboard applications of the materials of diatonic and chromatic music.
Prerequisites: MUS-129
Corequisites: MUS-211

oc **MUS-214-01 333454 MW 2-2:50 PM**
 R. OLASON \$252.00 \$26.00 \$85.00 \$363.00

MUS-218 MPT SEMINAR I, 1 CREDIT
 First of a three-part series. For second year MPT students only. Seminar will cover writing, arranging, production, performance and music theory through experiential learning. Students will produce, write and arrange for each CWE/Songwriters concert and will produce the Annual MPT festival each spring.

Prerequisites: MUS-103, MUS-109, MUS-113L, and MUP-150
Required: Must be a 2nd year MPT student in good standing
 oc **MUS-218-01 333455 M 12-12:50 PM**
 K. HOLLINGSWORTH \$126.00 \$13.00 \$0.00 \$139.00

MUS-224 AURAL SKILLS II, 2 CREDITS
 First of three courses in a year-long sequence. Diatonic and chromatic sight singing with solfège syllables and moveable 'do'. Four-part dictation including all chromatic devices studied in Theory II.

Prerequisites: MUS-116
Corequisites: MUS-211

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

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

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

oc **MUS-224-01 333456 MW 1-1:50 PM**
 R. OLASON \$252.00 \$26.00 \$85.00 \$363.00

MUS-247 SOUND FOR MEDIA, 3 CREDITS
 Introduction to sound as related to film making, animation, and video games. Students will have the opportunity to create and assemble sound for media into a finished product. Explores the basic components of commercial film/video, animation, and game production as they relate to sound.

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

oc LCT **MUS-247-01 333154 W 3-5:50 PM**
 B. ROSE \$378.00 \$39.00 \$0.00 \$417.00

MUS-280 MUSIC/CWE, 2-6 CREDITS
 Cooperative work experience. Provides students with on-the-job work experience in the field of music. Required: Student Petition.

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

ONL **MUS-280-01 333457**
 C. DOGGETT \$756.00 \$78.00 \$144.00 \$978.00V
 Required: Student Petition. Corequisite: Take the following CWE-281-06.

ONL **MUS-280-02 333459**
 G. HARRIS \$756.00 \$78.00 \$144.00 \$978.00V
 Required: Student Petition. Corequisite: Take the following CWE-281-06.

XMUP-0001 UNISTUS CHOIR, 0 CREDIT
 Select vocal ensemble which rehearses and performs choral music from the Renaissance to the 20th century, including the music of Estonia. Provides preparation for entering professional fields of music and performance. Emphasis on a cappella singing applied to appropriate chamber music. Provides an environment whereby individual students, selected according to their talents and attitudes, may assist the group at large in achieving its full potential which is that of excellence in choral expression. The achievement of this potential is our goal. By audition.

oc **XMUP-0001-01 333485 M 6:30 -9:20 PM**
 L. CLINE \$0.00 \$0.00 \$0.00 \$0.00

Music: Individual Lessons - Non-Music Majors

MUP-100 INDIVIDUAL LESSONS: NON-MUSIC MAJORS, 1 CREDIT
 Private lessons for beginners, non-music majors, and students who receive a low rating in MUP-171 through MUP-191 auditions. Brass, woodwind, percussion, string and keyboard instruments, and voice. May be repeated for up to 12 credits. Required: Student Petition.

oc LCT **MUP-100-01 333206 TBA**
 TBA \$126.00 \$13.00 \$225.00 \$364.00
 Required: Student Petition. Jazz Piano Lessons.

oc LCT **MUP-100-02 333207 TBA**
 Y. MIYAMA \$126.00 \$13.00 \$225.00 \$364.00
 Required: Student Petition. Piano Lessons.

oc LCT **MUP-100-03 333208 TBA**
 D. FLESHNER \$126.00 \$13.00 \$225.00 \$364.00
 Required: Student Petition. Rock, Blues, and Pop Piano Lessons.

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total	Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
	Instructor		Tuition	Fee	Crs. Fee			Instructor		Tuition	Fee	Crs. Fee	
OC LCT	MUP-100-04 333209 TBA J. ISRAELS		\$126.00	\$13.00	\$225.00	\$364.00	OC	Required: Student Petition. Bass Lessons. MUP-100-28 338101 TBA D. TUTMARK		\$252.00	\$26.00	\$450.00	\$728.00
	Required: Student Petition. Voice Lessons. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.						OC	Required: Student Petition. Guitar Lessons. MUP-100-29 338102 TBA C. WOITACH		\$252.00	\$26.00	\$450.00	\$728.00
OC LCT	MUP-100-05 333210 TBA B. MICHAEL		\$126.00	\$13.00	\$225.00	\$364.00	OC	Required: Student Petition. Jazz Guitar Lessons. MUP-100-30 338103 TBA G. HARRIS		\$252.00	\$26.00	\$450.00	\$728.00
	Required: Student Petition. Voice Lessons. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.						OC	Required: Student Petition. Saxophone Lessons. MUP-100-31 338104 TBA J. KLAUSE		\$252.00	\$26.00	\$450.00	\$728.00
OC LCT	MUP-100-06 333211 TBA C. AVERILL		\$126.00	\$13.00	\$225.00	\$364.00	OC	Required: Student Petition. Trumpet Lessons. MUP-100-32 338105 TBA C. DOGGETT		\$252.00	\$26.00	\$450.00	\$728.00
	Required: Student Petition. Cello Lessons.							Required: Student Petition. Percussion & Drum Set Lessons.					
OC LCT	MUP-100-07 333212 TBA K. DEITZ		\$126.00	\$13.00	\$225.00	\$364.00	Music: Individual Lessons - Year 1						
	Required: Student Petition. Bass Lessons.						<i>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.</i>						
OC LCT	MUP-100-08 333213 TBA D. TUTMARK		\$126.00	\$13.00	\$225.00	\$364.00	MUP-171 INDIVIDUAL LESSONS: PIANO, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189						
	Required: Student Petition. Guitar Lessons.						OC LCT	MUP-171-01 333232 TBA Y. MIYAMA		\$252.00	\$26.00	\$450.00	\$728.00
OC LCT	MUP-100-09 333214 TBA C. WOITACH		\$126.00	\$13.00	\$225.00	\$364.00		Required: Student Petition.					
	Required: Student Petition. Jazz Guitar Lessons.						MUP-171J INDIVIDUAL LESSONS: JAZZ PIANO, 2 CREDITS Required: College-level performance ability						
OC LCT	MUP-100-10 333215 TBA G. HARRIS		\$126.00	\$13.00	\$225.00	\$364.00	OC LCT	MUP-171J-01 333234 TBA TBA		\$252.00	\$26.00	\$450.00	\$728.00
	Required: Student Petition. Saxophone Lessons.							Required: Student Petition.					
OC LCT	MUP-100-11 333216 TBA J. KLAUSE		\$126.00	\$13.00	\$225.00	\$364.00	MUP-171R INDIVIDUAL LESSONS: ROCK, BLUES, POP PIANO, 2 CREDITS Required: College-level performance ability						
	Required: Student Petition. Trumpet Lessons.						OC LCT	MUP-171R-01 333237 TBA D. FLESCHNER		\$252.00	\$26.00	\$450.00	\$728.00
OC LCT	MUP-100-12 333217 TBA C. DOGGETT		\$126.00	\$13.00	\$225.00	\$364.00		Required: Student Petition.					
	Required: Student Petition. Percussion & Drum Set Lessons.						MUP-172 INDIVIDUAL LESSONS: ORGAN, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189						
OC	MUP-100-21 338094 TBA TBA		\$252.00	\$26.00	\$450.00	\$728.00	OC LCT	MUP-172-01 333240 TBA J. HOLLAND		\$252.00	\$26.00	\$450.00	\$728.00
	Required: Student Petition. Jazz Piano Lessons.							Required: Student Petition.					
OC	MUP-100-22 338095 TBA Y. MIYAMA		\$252.00	\$26.00	\$450.00	\$728.00	MUP-174 INDIVIDUAL LESSONS: VOICE, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189						
	Required: Student Petition. Piano Lessons.						OC LCT	MUP-174-01 333243 TBA J. ISRAELS		\$252.00	\$26.00	\$450.00	\$728.00
OC	MUP-100-23 338096 TBA D. FLESCHNER		\$252.00	\$26.00	\$450.00	\$728.00		Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.					
	Required: Student Petition. Rock, Blues, and Pop Piano Lessons.						ESPAÑOL: Enseñado en español LCT: Low-Cost Text						
OC	MUP-100-24 338097 TBA J. ISRAELS		\$252.00	\$26.00	\$450.00	\$728.00	Campus Locations: HAR: Harmony Community Campus OC: Oregon City Campus WILS: Wilsonville Training Center OFF: Other Off-Campus Location						
	Required: Student Petition. Voice Lessons. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.						Distance Education Notification: ONL: Online Only REM: Remote (w/ scheduled meetings) HYB: In-person plus online work						
OC	MUP-100-25 338098 TBA B. MICHAEL		\$252.00	\$26.00	\$450.00	\$728.00	Other Coding Translations: TBA: To be arranged: contact department first class VAR: Variable credit class						
	Required: Student Petition. Voice Lessons. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.												
OC	MUP-100-26 338099 TBA C. AVERILL		\$252.00	\$26.00	\$450.00	\$728.00							
	Required: Student Petition. Cello Lessons.												
OC	MUP-100-27 338100 TBA K. DEITZ		\$252.00	\$26.00	\$450.00	\$728.00							

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VAR: Variable credit class

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Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Total	Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Total
	Instructor						Crs. Fee			Instructor						Crs. Fee	
OC LCT	MUP-174-02 333244 TBA B. MICHAEL				\$252.00	\$26.00	\$450.00	\$728.00	OC LCT	MUP-177-01 333254 TBA C. AVERILL				\$252.00	\$26.00	\$450.00	\$728.00
	Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.									Required: Student Petition.							
	MUP-174J INDIVIDUAL LESSONS: JAZZ VOICE, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189									MUP-178 INDIVIDUAL LESSONS: BASS, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189							
OC LCT	MUP-174J-01 333246 TBA J. ISRAELS				\$252.00	\$26.00	\$450.00	\$728.00	OC LCT	MUP-178-01 333255 TBA K. DEITZ				\$252.00	\$26.00	\$450.00	\$728.00
	Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.									Required: Student Petition.							
	MUP-174R INDIVIDUAL LESSONS: ROCK, BLUES, POP VOICE, 2 CREDITS Required: College-level performance ability									MUP-178J INDIVIDUAL LESSONS: JAZZ BASS, 2 CREDITS Required: College-level performance ability							
OC LCT	MUP-174J-02 333248 TBA B. MICHAEL				\$252.00	\$26.00	\$450.00	\$728.00	OC LCT	MUP-178J-01 333257 TBA K. DEITZ				\$252.00	\$26.00	\$450.00	\$728.00
	Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.									Required: Student Petition.							
OC LCT	MUP-174J-02 333248 TBA B. MICHAEL				\$252.00	\$26.00	\$450.00	\$728.00	OC LCT	MUP-178J-02 333259 TBA T. WAKELING				\$252.00	\$26.00	\$450.00	\$728.00
	Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.									Required: Student Petition.							
	MUP-174R INDIVIDUAL LESSONS: ROCK, BLUES, POP VOICE, 2 CREDITS Required: College-level performance ability									MUP-178R INDIVIDUAL LESSONS: ROCK, BLUES, POP BASS, 2 CREDITS Required: College-level performance ability							
OC LCT	MUP-174R-01 337705 TBA J. ISRAELS				\$252.00	\$26.00	\$450.00	\$728.00	OC LCT	MUP-178R-01 337709 TBA K. DEITZ				\$252.00	\$26.00	\$450.00	\$728.00
	Required: Student Petition. Vocal placement required for private lessons and vocal ensembles. Attend in Room N114 on 9/30 or 10/1 from 3-5 pm to demonstrate vocal range. Contact kathleen.hollingsworth@clackamas.edu with questions.									Required: Student Petition.							
	MUP-175 INDIVIDUAL LESSONS: VIOLIN, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189									MUP-179 INDIVIDUAL LESSONS: HARP, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189							
OC LCT	MUP-175-01 333249 TBA TBA				\$252.00	\$26.00	\$450.00	\$728.00	OC LCT	MUP-179-01 333260 TBA TBA				\$252.00	\$26.00	\$450.00	\$728.00
	Required: Student Petition.									Required: Student Petition.							
	MUP-176 INDIVIDUAL LESSONS: VIOLA, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189									MUP-180 INDIVIDUAL LESSONS: GUITAR, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189							
OC LCT	MUP-176-01 333251 TBA H. OSEAS				\$252.00	\$26.00	\$450.00	\$728.00	OC LCT	MUP-180-01 333261 TBA D. TUTMARK				\$252.00	\$26.00	\$450.00	\$728.00
	Required: Student Petition.									Required: Student Petition.							
	MUP-177 INDIVIDUAL LESSONS: CELLO, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189									MUP-180J INDIVIDUAL LESSONS: JAZZ GUITAR, 2 CREDITS Required: College-level performance ability							
										OC LCT MUP-180J-01 333263 TBA C. WOITACH \$252.00 \$26.00 \$450.00 \$728.00 Required: Student Petition.							
										MUP-180R INDIVIDUAL LESSONS: ROCK, BLUES, POP GUITAR, 2 CREDITS Required: College-level performance ability							
										OC LCT MUP-180R-01 333265 TBA A. CSIKOS \$252.00 \$26.00 \$450.00 \$728.00 Required: Student Petition.							
										MUP-181 INDIVIDUAL LESSONS: FLUTE, 2 CREDITS Required: College-level performance ability Corequisites: MUS-189							
										OC LCT MUP-181-01 333266 TBA K. GIFFORD \$252.00 \$26.00 \$450.00 \$728.00 Required: Student Petition.							

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MUP-181J	INDIVIDUAL LESSONS: JAZZ FLUTE, 2 CREDITS									
Required: College-level performance ability										
OC LCT	MUP-181J-01 333267 TBA		G. HARRIS			\$252.00	\$26.00	\$450.00		\$728.00
Required: Student Petition.										
MUP-182	INDIVIDUAL LESSONS: OBOE, 2 CREDITS									
Required: College-level performance ability										
Corequisites: MUS-189										
OC LCT	MUP-182-01 333269 TBA		K. GRONLI			\$252.00	\$26.00	\$450.00		\$728.00
Required: Student Petition.										
MUP-183	INDIVIDUAL LESSONS: CLARINET, 2 CREDITS									
Required: College-level performance ability										
Corequisites: MUS-189										
OC LCT	MUP-183-01 333270 TBA		L. DE MARTINO			\$252.00	\$26.00	\$450.00		\$728.00
Required: Student Petition.										
MUP-183J	INDIVIDUAL LESSONS: JAZZ CLARINET, 2 CREDITS									
Required: College-level performance ability										
OC LCT	MUP-183J-01 333271 TBA		TBA			\$252.00	\$26.00	\$450.00		\$728.00
Required: Student Petition.										
MUP-184	INDIVIDUAL LESSONS: SAXOPHONE, 2 CREDITS									
Required: College-level performance ability										
Corequisites: MUS-189										
OC LCT	MUP-184-01 333273 TBA		G. HARRIS			\$252.00	\$26.00	\$450.00		\$728.00
Required: Student Petition.										
MUP-184J	INDIVIDUAL LESSONS: JAZZ SAXOPHONE, 2 CREDITS									
Required: College-level performance ability										
OC LCT	MUP-184J-01 333275 TBA		G. HARRIS			\$252.00	\$26.00	\$450.00		\$728.00
Required: Student Petition.										
MUP-185	INDIVIDUAL LESSONS: BASSOON, 2 CREDITS									
Required: College-level performance ability										
Corequisites: MUS-189										
OC LCT	MUP-185-01 333276 TBA		N. BUETTI			\$252.00	\$26.00	\$450.00		\$728.00
Required: Student Petition.										
MUP-186	INDIVIDUAL LESSONS: TRUMPET, 2 CREDITS									
Required: College-level performance ability										
Corequisites: MUS-189										
OC LCT	MUP-186-01 333277 TBA		J. KLAUSE			\$252.00	\$26.00	\$450.00		\$728.00
Required: Student Petition.										
MUP-186J	INDIVIDUAL LESSONS: JAZZ TRUMPET, 2 CREDITS									
Required: College-level performance ability										
OC LCT	MUP-186J-01 333278 TBA		Q. WALKER			\$252.00	\$26.00	\$450.00		\$728.00
Required: Student Petition.										
MUP-187	INDIVIDUAL LESSONS: FRENCH HORN, 2 CREDITS									
Required: College-level performance ability										
Corequisites: MUS-189										
OC LCT	MUP-187-01 333279 TBA		R. OLASON			\$252.00	\$26.00	\$450.00		\$728.00
Required: Student Petition.										
MUP-188	INDIVIDUAL LESSONS: TROMBONE, 2 CREDITS									
Required: College-level performance ability										
Corequisites: MUS-189										
OC LCT	MUP-188-01 333281 TBA		L. CAMPBELL			\$252.00	\$26.00	\$450.00		\$728.00
Required: Student Petition.										
OC LCT	MUP-188-02 333282 TBA		G. MIDDLETON			\$252.00	\$26.00	\$450.00		\$728.00
Required: Student Petition.										
MUP-188J	INDIVIDUAL LESSONS: JAZZ TROMBONE, 2 CREDITS									
Required: College-level performance ability										
OC LCT	MUP-188J-01 333283 TBA		L. CAMPBELL			\$252.00	\$26.00	\$450.00		\$728.00
Required: Student Petition.										
MUP-189	INDIVIDUAL LESSONS: EUPHONIUM, 2 CREDITS									
Required: College-level performance ability										
Corequisites: MUS-189										
OC LCT	MUP-189-01 333284 TBA		G. MIDDLETON			\$252.00	\$26.00	\$450.00		\$728.00
Required: Student Petition.										
MUP-190	INDIVIDUAL LESSONS: TUBA, 2 CREDITS									
Required: College-level performance ability										
Corequisites: MUS-189										
OC LCT	MUP-190-01 333286 TBA		TBA			\$252.00	\$26.00	\$450.00		\$728.00
Required: Student Petition.										
MUP-191	INDIVIDUAL LESSONS: PERCUSSION, 2 CREDITS									
Required: College-level performance ability										
Corequisites: MUS-189										
OC LCT	MUP-191-01 333288 TBA		TBA			\$252.00	\$26.00	\$450.00		\$728.00
Required: Student Petition.										
MUP-191J	INDIVIDUAL LESSONS: JAZZ PERCUSSION, 2 CREDITS									
Required: College-level performance ability										
OC LCT	MUP-191J-01 333289 TBA		C. DOGGETT			\$252.00	\$26.00	\$450.00		\$728.00
Required: Student Petition.										
MUP-191R	INDIVIDUAL LESSONS: ROCK, BLUES, POP DRUMSET, 2 CREDITS									
Required: College-level performance ability										
OC LCT	MUP-191R-01 337712 TBA		C. DOGGETT			\$252.00	\$26.00	\$450.00		\$728.00
Required: Student Petition.										
MUP-192T	INDIVIDUAL LESSONS: AUDIO TECH, 2 CREDITS									
Required: College-level performance ability										

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OC LCT	MUP-192T-01 337715 TBA TBA Required: Student Petition. Electronic Music Lessons.					\$252.00	\$26.00	\$450.00		\$728.00	MUP-274R	INDIVIDUAL LESSONS: ROCK, BLUES, POP VOICE, 2 CREDITS Prerequisites: MUP-174R (6 credits) Required: Sophomore-level performance ability											
OC LCT	MUP-192T-02 337718 TBA D. BADSTUBNER Required: Student Petition. Audio Recording Lessons.					\$252.00	\$26.00	\$450.00		\$728.00	OC LCT	MUP-274R-01 337707 TBA J. ISRAELS \$252.00 \$26.00 \$450.00 \$728.00											
OC LCT	MUP-192T-03 337720 TBA TBA Required: Student Petition. Live Sound Lessons.					\$252.00	\$26.00	\$450.00		\$728.00	OC LCT	MUP-274R-02 337708 TBA B. MICHAEL \$252.00 \$26.00 \$450.00 \$728.00											
Music: Individual Lessons - Year 2											MUP-275 INDIVIDUAL LESSONS: VIOLIN, 2 CREDITS Prerequisites: MUP-175 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability												
<i>Second-year private lessons required for music majors and available to qualified non-majors. End-of-term juried performance mandatory. May be repeated for up to 10 credits.</i>											OC LCT MUP-275-01 333324 TBA TBA \$252.00 \$26.00 \$450.00 \$728.00												
MUP-271 INDIVIDUAL LESSONS: PIANO, 2 CREDITS Prerequisites: MUP-171 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability											MUP-276 INDIVIDUAL LESSONS: VIOLA, 2 CREDITS Prerequisites: MUP-176 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability												
OC LCT	MUP-271-01 333308 TBA Y. MIYAMA \$252.00 \$26.00 \$450.00 \$728.00										OC LCT	MUP-276-01 333325 TBA H. OSEAS \$252.00 \$26.00 \$450.00 \$728.00											
MUP-271J INDIVIDUAL LESSONS: JAZZ PIANO, 2 CREDITS Prerequisites: MUP-171J (6 credits) Required: Sophomore-level performance ability											MUP-277 INDIVIDUAL LESSONS: CELLO, 2 CREDITS Prerequisites: MUP-177 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability												
OC LCT	MUP-271J-01 333312 TBA TBA \$252.00 \$26.00 \$450.00 \$728.00										OC LCT	MUP-277-01 333327 TBA C. AVERILL \$252.00 \$26.00 \$450.00 \$728.00											
MUP-271R INDIVIDUAL LESSONS: ROCK, BLUES, POP PIANO, 2 CREDITS Prerequisites: MUP-171R (6 credits) Required: Sophomore-level performance ability											MUP-278 INDIVIDUAL LESSONS: BASS, 2 CREDITS Prerequisites: MUP-178 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability												
OC LCT	MUP-271R-01 333313 TBA D. FLESCNER \$252.00 \$26.00 \$450.00 \$728.00										OC LCT	MUP-278-01 333330 TBA K. DEITZ \$252.00 \$26.00 \$450.00 \$728.00											
MUP-272 INDIVIDUAL LESSONS: ORGAN, 2 CREDITS Prerequisites: MUP-172 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability											MUP-278J INDIVIDUAL LESSONS: JAZZ BASS, 2 CREDITS Prerequisites: MUP-178J (6 credits) Required: Sophomore-level performance ability												
OC LCT	MUP-272-01 333316 TBA J. HOLLAND \$252.00 \$26.00 \$450.00 \$728.00										OC LCT	MUP-278J-01 333332 TBA K. DEITZ \$252.00 \$26.00 \$450.00 \$728.00											
MUP-274 INDIVIDUAL LESSONS: VOICE, 2 CREDITS Prerequisites: MUP-174 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability											OC LCT MUP-278J-02 333333 TBA T. WAKELING \$252.00 \$26.00 \$450.00 \$728.00												
OC LCT	MUP-274-01 333317 TBA J. ISRAELS \$252.00 \$26.00 \$450.00 \$728.00										MUP-278R INDIVIDUAL LESSONS: ROCK, BLUES, POP BASS, 2 CREDITS Prerequisites: MUP-178R (6 credits) Required: Sophomore-level performance ability												
OC LCT	MUP-274-02 333319 TBA B. MICHAEL \$252.00 \$26.00 \$450.00 \$728.00										OC LCT	MUP-278R-01 337710 TBA K. DEITZ \$252.00 \$26.00 \$450.00 \$728.00											
MUP-274J INDIVIDUAL LESSONS: JAZZ VOICE, 2 CREDITS Prerequisites: MUP-174J (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability											MUP-279 INDIVIDUAL LESSONS: HARP, 2 CREDITS Prerequisites: MUP-179 (6 credits) Corequisites: MUS-189 Required: Sophomore-level performance ability												
OC LCT	MUP-274J-01 333321 TBA J. ISRAELS \$252.00 \$26.00 \$450.00 \$728.00										OC LCT	MUP-279-01 333335 TBA TBA \$252.00 \$26.00 \$450.00 \$728.00											
OC LCT	MUP-274J-02 333323 TBA B. MICHAEL \$252.00 \$26.00 \$450.00 \$728.00										MUP-280 INDIVIDUAL LESSONS: GUITAR, 2 CREDITS												

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	Instructor		Tuition	Fee	Crs. Fee			Instructor		Tuition	Fee	Crs. Fee	
Prerequisites: MUP-180 (6 credits)							Prerequisites: MUP-184J (6 credits)						
Corequisites: MUS-189							Required: Sophomore-level performance ability						
Required: Sophomore-level performance ability													
OC LCT	MUP-280-01	333336 TBA					OC LCT	MUP-284J-01	333359 TBA				
	D. TUTMARK		\$252.00	\$26.00	\$450.00	\$728.00		G. HARRIS		\$252.00	\$26.00	\$450.00	\$728.00
MUP-280J INDIVIDUAL LESSONS: JAZZ GUITAR, 2 CREDITS							MUP-285 INDIVIDUAL LESSONS: BASSOON, 2 CREDITS						
Prerequisites: MUP-180J (6 credits)							Prerequisites: MUP-185 (6 credits)						
Required: Sophomore-level performance ability							Corequisites: MUS-189						
							Required: Sophomore-level performance ability						
OC LCT	MUP-280J-01	333338 TBA					OC LCT	MUP-285-01	333362 TBA				
	C. WOITACH		\$252.00	\$26.00	\$450.00	\$728.00		N. BUETTI		\$252.00	\$26.00	\$450.00	\$728.00
MUP-280R INDIVIDUAL LESSONS: ROCK, BLUES, POP GUITAR, 2 CREDITS							MUP-286 INDIVIDUAL LESSONS: TRUMPET, 2 CREDITS						
Prerequisites: MUP-180R (6 credits)							Prerequisites: MUP-186 (6 credits)						
Required: Sophomore-level performance ability							Corequisites: MUS-189						
							Required: Sophomore-level performance ability						
OC LCT	MUP-280R-01	333341 TBA					OC LCT	MUP-286-01	333365 TBA				
	A. CSIKOS		\$252.00	\$26.00	\$450.00	\$728.00		J. KLAUSE		\$252.00	\$26.00	\$450.00	\$728.00
MUP-281 INDIVIDUAL LESSONS: FLUTE, 2 CREDITS							MUP-286J INDIVIDUAL LESSONS: JAZZ TRUMPET, 2 CREDITS						
Prerequisites: MUP-181 (6 credits)							Prerequisites: MUP-186J (6 credits)						
Corequisites: MUS-189							Required: Sophomore-level performance ability						
Required: Sophomore-level performance ability													
OC LCT	MUP-281-01	333344 TBA					OC LCT	MUP-286J-01	333366 TBA				
	K. GIFFORD		\$252.00	\$26.00	\$450.00	\$728.00		Q. WALKER		\$252.00	\$26.00	\$450.00	\$728.00
MUP-281J INDIVIDUAL LESSONS: JAZZ FLUTE, 2 CREDITS							MUP-287 INDIVIDUAL LESSONS: FRENCH HORN, 2 CREDITS						
Prerequisites: MUP-181J (6 credits)							Prerequisites: MUP-187 (6 credits)						
Required: Sophomore-level performance ability							Corequisites: MUS-189						
							Required: Sophomore-level performance ability						
OC LCT	MUP-281J-01	333346 TBA					OC LCT	MUP-287-01	333368 TBA				
	G. HARRIS		\$252.00	\$26.00	\$450.00	\$728.00		R. OLASON		\$252.00	\$26.00	\$450.00	\$728.00
MUP-282 INDIVIDUAL LESSONS: OBOE, 2 CREDITS							MUP-288 INDIVIDUAL LESSONS: TROMBONE, 2 CREDITS						
Prerequisites: MUP-182 (6 credits)							Prerequisites: MUP-188 (6 credits)						
Corequisites: MUS-189							Corequisites: MUS-189						
Required: Sophomore-level performance ability							Required: Sophomore-level performance ability						
OC LCT	MUP-282-01	333349 TBA					OC LCT	MUP-288-01	333369 TBA				
	K. GRONLI		\$252.00	\$26.00	\$450.00	\$728.00		L. CAMPBELL		\$252.00	\$26.00	\$450.00	\$728.00
MUP-283 INDIVIDUAL LESSONS: CLARINET, 2 CREDITS							MUP-288J INDIVIDUAL LESSONS: JAZZ TROMBONE, 2 CREDITS						
Prerequisites: MUP-183 (6 credits)							Prerequisites: MUP-188J (6 credits)						
Corequisites: MUS-189							Required: Sophomore-level performance ability						
Required: Sophomore-level performance ability													
OC LCT	MUP-283-01	333352 TBA					OC LCT	MUP-288J-01	333371 TBA				
	L. DE MARTINO		\$252.00	\$26.00	\$450.00	\$728.00		L. CAMPBELL		\$252.00	\$26.00	\$450.00	\$728.00
MUP-283J INDIVIDUAL LESSONS: JAZZ CLARINET, 2 CREDITS							MUP-289 INDIVIDUAL LESSONS: EUPHONIUM, 2 CREDITS						
Prerequisites: MUP-183J (6 credits)							Prerequisites: MUP-189 (6 credits)						
Required: Sophomore-level performance ability							Corequisites: MUS-189						
							Required: Sophomore-level performance ability						
OC LCT	MUP-283J-01	333354 TBA					OC LCT	MUP-289-01	333374 TBA				
	TBA		\$252.00	\$26.00	\$450.00	\$728.00		G. MIDDLETON		\$252.00	\$26.00	\$450.00	\$728.00
MUP-284 INDIVIDUAL LESSONS: SAXOPHONE, 2 CREDITS							MUP-290 INDIVIDUAL LESSONS: TUBA, 2 CREDITS						
Prerequisites: MUP-184 (6 credits)							Prerequisites: MUP-190 (6 credits)						
Corequisites: MUS-189							Corequisites: MUS-189						
Required: Sophomore-level performance ability							Required: Sophomore-level performance ability						
OC LCT	MUP-284-01	333356 TBA					OC LCT	MUP-290-01	333376 TBA				
	G. HARRIS		\$252.00	\$26.00	\$450.00	\$728.00		TBA		\$252.00	\$26.00	\$450.00	\$728.00
MUP-284J INDIVIDUAL LESSONS: JAZZ SAXOPHONE, 2 CREDITS							MUP-291 INDIVIDUAL LESSONS: PERCUSSION, 2 CREDITS						

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Other Coding Translations:
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VAR: Variable credit class

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

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

Prerequisites: MUP-191 (6 credits)
Corequisites: MUS-189
Required: Sophomore-level performance ability

OC LCT	MUP-291-01	333379	TBA			
	TBA	\$252.00	\$26.00	\$450.00	\$728.00	

MUP-291J INDIVIDUAL LESSONS: JAZZ PERCUSSION, 2 CREDITS

Prerequisites: MUP-191J (6 credits)
Required: Sophomore-level performance ability

OC LCT	MUP-291J-01	333382	TBA			
	C. DOGGETT	\$252.00	\$26.00	\$450.00	\$728.00	

MUP-291R INDIVIDUAL LESSONS: ROCK, BLUES, POP DRUMSET, 2 CREDITS

Prerequisites: MUP-191R (6 credits)
Required: Sophomore-level performance ability

OC LCT	MUP-291R-01	337713	TBA			
	C. DOGGETT	\$252.00	\$26.00	\$450.00	\$728.00	

MUP-292T INDIVIDUAL LESSONS: AUDIO TECH, 2 CREDITS

Prerequisites: MUP-192T (6 credits)
Required: Sophomore-level performance ability

OC LCT	MUP-292T-01	337716	TBA			
	TBA	\$252.00	\$26.00	\$450.00	\$728.00	
	Electronic Music Lessons.					
OC LCT	MUP-292T-02	337719	TBA			
	D. BADSTUBNER	\$252.00	\$26.00	\$450.00	\$728.00	
	Audio Recording Lessons.					
OC LCT	MUP-292T-03	337721	TBA			
	TBA	\$252.00	\$26.00	\$450.00	\$728.00	
	Live Sound Lessons.					

Nursing

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

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

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

NRS-110 FOUNDATIONS OF NURSING - HEALTH PROMOTION, 5 CREDITS

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LCT: Low-Cost Text

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

This course introduces the learner to framework of the OCNE curriculum. The emphasis on health promotion across the life span includes learning about self-health as well as patient health practices. To support self and patient health practices, students learn to access research evidence about healthy lifestyle patterns and risk factors for disease/illness, apply growth and development theory, interview patients in a culturally sensitive manner, work as members of a multidisciplinary team giving and receiving feedback about performance, and use reflective thinking about their practice as nursing students. Populations studied in the course include children, adults, older adults and the family experiencing a normal pregnancy. Includes classroom and clinical learning experiences. The clinical portion of the course includes practice with therapeutic communication skills and selected core nursing skills identified in the OCNE Core Nursing Skills document.

Required: Acceptance into the CCC nursing program
Corequisites: NRS-110C and NRS-230

HAR	NRS-110-01	333460	M			
	C. BURT	\$630.00	\$65.00	\$500.00	\$1,195.00	
	R. TARTER					

NRS-110C FOUNDATIONS OF NURSING - HEALTH PROMOTION CLINICAL, 4 CREDITS

This course introduces the learner to framework of the OCNE curriculum. The emphasis on health promotion across the life span includes learning about self-health as well as client health practices. To support self and client health practices, students learn to access research evidence about healthy lifestyle patterns and risk factors for disease/illness, apply growth and development theory, interview clients in a culturally sensitive manner, work as members of a multidisciplinary team giving and receiving feedback about performance, and use reflective thinking about their practice as nursing students. Populations studied in the course include children, adults, older adults and the family experiencing a normal pregnancy. Includes classroom and clinical learning experiences.

Required: Acceptance into the CCC nursing program
Corequisites: NRS-110 and NRS-230

HAR	NRS-110C-01	333462	T			
			W			
			W			
			W			
			WTH			
			TH			
	C. BURT	\$504.00	\$52.00	\$360.00	\$916.00	
	B. ELLISON					
	R. TARTER					

HAR	NRS-110C-02	333463	T			
			W			
			WTH			
			W			
			TH			
	C. BURT	\$504.00	\$52.00	\$360.00	\$916.00	
	B. ELLISON					
	R. TARTER					

HAR	NRS-110C-03	333465	T			
			W			
			WTH			
			TH			
	C. BURT	\$504.00	\$52.00	\$360.00	\$916.00	
	B. ELLISON					
	R. TARTER					

NRS-222 NURSING IN ACUTE CARE II & END OF LIFE, 4 CREDITS

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

This course builds on NRS-112, focusing on more complex and/or unstable patient care conditions, some of which may result in death. These patient care conditions require strong noticing and rapid decision making skills. Evidence base is used to support appropriate focused assessments, and effective, efficient nursing interventions. Life span and developmental factors, cultural variables, and legal aspects of care frame the ethical decision-making employed in patient choices for treatment or palliative care for disorders with an acute trajectory. Case scenarios incorporate prioritizing care needs, delegation and supervision, and family and patient teaching for either discharge planning or end-of-life care. Exemplars include acute conditions affecting multiple body systems. Includes classroom and clinical learning experiences.

Required: Acceptance into the CCC nursing program

Prerequisites: NRS-112, NRS-112C, and NRS-233

Corequisites: NRS-222C

HAR	NRS-222-01	333469 M				8:30 -10:20 AM								
		M				11-12:50 PM								
	G. CONNELL		\$504.00	\$52.00	\$175.00		\$731.00							
	K. RICHARDS													

NRS-222C NURSING IN ACUTE CARE II & END OF LIFE CLINICAL, 5 CREDITS

This course builds on NRS-112, and focuses on more complex and/or unstable patient care conditions, some of which may result in death. These patient care conditions require strong noticing and rapid decision making skills. Evidence base is used to support appropriate focused assessments, and effective, efficient nursing interventions. Life span and developmental factors, cultural variables, and legal aspects of care frame the ethical decision-making employed in patient choices for treatment or palliative care within the acute care setting. Case scenarios incorporate prioritizing care needs, delegation and supervision, and family and patient teaching for either discharge planning or end-of-life care. Exemplars include acute conditions affecting multiple body systems. Includes classroom and clinical learning experiences.

Required: Acceptance into the CCC nursing program

Prerequisites: NRS-112, NRS-112C, and NRS-233

Corequisites: NRS-222

HAR	NRS-222C-01	333470 T				7-7:20 PM								
	A. MARCHANT		\$630.00	\$65.00	\$180.00		\$875.00							
	K. RICHARDS													
HAR	NRS-222C-02	333472 W				7-7:20 PM								
	T. FARIS		\$630.00	\$65.00	\$180.00		\$875.00							
	K. RICHARDS													
HAR	NRS-222C-03	333473 F				7-7:20 PM								
	A. MARCHANT		\$630.00	\$65.00	\$180.00		\$875.00							
	K. RICHARDS													
HAR	NRS-222C-04	333474 TH				7-7:20 PM								
	K. RICHARDS		\$630.00	\$65.00	\$180.00		\$875.00							
HAR	NRS-222C-05	333476 TH				7-7:20 PM								
	K. RICHARDS		\$630.00	\$65.00	\$180.00		\$875.00							

NRS-230 CLINICAL PHARMACOLOGY I, 3 CREDITS

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This course introduces the theoretical background that enables students to provide safe and effective care related to drugs and natural products to persons throughout the lifespan. It includes the foundational concepts of principles of pharmacology, nonopioid analgesics, and antibiotics, as well as additional classes of drugs. Students will learn to make selected clinical decisions in the context of nursing regarding using current, reliable sources of information, understanding of pharmacokinetics and pharmacodynamics, developmental physiologic considerations, monitoring and evaluating the effectiveness of drug therapy, teaching persons from diverse populations regarding safe and effective use of drugs and natural products, intervening to increase therapeutic benefits and reduce potential negative effects, and communicating appropriately with other health professionals regarding drug therapy. Drugs are studied by therapeutic or pharmacological class using an organized framework.

Required: Acceptance into the CCC nursing program

Corequisites: NRS-110 and NRS-110C

HAR	NRS-230-01	333477 F				8:30 -10:20 AM								
	K. RICHARDS		\$378.00	\$39.00	\$210.00		\$627.00							

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	333478 TW				9-1:30 PM								
	K. STIPE		\$819.00	\$84.50	\$300.00		\$1,203.50							
	Required: Student Petition. Application required to enter the course. Application details can be found on the webpage. Mandatory Orientation will be held in person on the Harmony Campus for those conditionally accepted into the course. Please see the Nursing Assistant webpage for dates and details.													
HAR HYB	NUR-100-02	338088 TW				2-6:30 PM								
	S. ELLSBERG		\$819.00	\$84.50	\$300.00		\$1,203.50							
	J. TAYLOR													
	Required: Student Petition.													

NUR-100C NURSING ASSISTANT I CLINICAL, 0 CREDIT

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

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
Corequisites: NUR-100										
HAR	NUR-100C-01 333480 TBA		S. ELLSBERG			\$0.00	\$0.00	\$0.00		\$0.00
	J. TAYLOR Required: Student Petition.									
HAR	NUR-100C-02 338089 TBA		S. ELLSBERG			\$0.00	\$0.00	\$0.00		\$0.00
	J. TAYLOR Required: Student Petition.									

Philosophy

PHL-101 PHILOSOPHICAL PROBLEMS, 4 CREDITS	Introduces basic philosophical questions such as: What is reality? What is knowledge? What is truth? Can humans freely choose? What is human awareness? What is a meaningful life?									
Recommended Prerequisites: WRD-098 or placement in WR-121Z										
OC HYB LCT	PHL-101-01 334308 TH		K. SEVERSON			\$504.00	\$52.00	\$0.00		\$556.00
	10-11:50 AM									
ONL LCT	PHL-101-02 337618		K. HADDIX			\$504.00	\$52.00	\$0.00		\$556.00

PHL-102 ETHICS, 4 CREDITS	Introduces the study of morality with concepts of good, harm, habits, character, perception, behavior and action. Also considers the different theories of human capacity for responsibility.									
Recommended Prerequisites: WRD-098 or placement in WR-121Z										
ONL LCT	PHL-102-01 334310		M. BAILEY			\$504.00	\$52.00	\$0.00		\$556.00
	No textbook required.									
HAR HYB LCT	PHL-102-15 334313 W		M. BAILEY			\$504.00	\$52.00	\$0.00		\$556.00
	10-11:50 AM No textbook required.									

PHL-103 CRITICAL REASONING, 4 CREDITS	Helps students identify and understand the process by which they themselves and others arrive at conclusions; improves their critical reasoning skills; introduces basic logical concepts of argument; and gives opportunity for students to apply course skills to relevant matters.									
Recommended Prerequisites: WRD-098 or placement in WR-121Z										
ONL LCT	PHL-103-01 334314		K. HADDIX			\$504.00	\$52.00	\$0.00		\$556.00

Phlebotomy

PHB-110 FUNDAMENTALS OF PHLEBOTOMY, 5 CREDITS	Introduces students to the practice of phlebotomy and the role of the phlebotomist as part of the healthcare team. Students will become familiar with phlebotomy equipment and learn about basic blood collection procedures. Students will identify medical terminology, anatomy, and physiology related to phlebotomy. Students will learn about specimen collection procedures, safety protocols, quality control, and regulatory compliance related to the role of a phlebotomist. This is an online course with embedded skills demonstrations to help prepare students for the in-person skills lab.									
Corequisites: PHB-112 and PHB-115										
Recommended Prerequisites: BI-120, or BI-101 & BI-102, or BI-231 & BI-232 & BI-233. HP-110, and WR-101 or WR-121Z										

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ONL LCT	PHB-110-01 333482		E. ZUNIGA			\$630.00	\$65.00	\$0.00		\$695.00
	Required: Student Petition.									

PHB-112 PHLEBOTOMY TECHNIQUES, 2 CREDITS	Perform venipuncture, capillary puncture, and specimen processing. This course is designed to provide students with active-learning experiences and hands-on training necessary to develop the skills of an entry-level phlebotomist. The student will learn the procedures performed by a phlebotomist and will become familiar with different types of equipment and techniques applied. Instruction on laboratory safety and standards will be emphasized.									
Corequisites: PHB-110 and PHB-115										
Recommended Prerequisites: BI-120, or BI-101 & BI-102, or BI-231 & BI-232 & BI-233. HP-110, and WR-101 or WR-121Z										

HAR	PHB-112-01 333483 WF		T. BOYD			\$252.00	\$26.00	\$100.00		\$378.00
	E. ZUNIGA Required: Student Petition.									
HAR	PHB-112-02 337702 WF		E. ZUNIGA			\$252.00	\$26.00	\$100.00		\$378.00
	Required: Student Petition.									

PHB-115 PROFESSIONALISM FOR PHLEBOTOMISTS, 1 CREDIT	Introduces professionalism in the healthcare setting and prepares students for clinical placement.									
Required: Compliance with the Oregon Health Authority rules for students. Vaccination records for Tdap, MMR, Varicella, Hep B, COVID-19. Completed criminal background check, drug screen, and BLS CPR card through the American Heart Association										
Corequisites: PHB-110 and PHB-112										
ONL LCT	PHB-115-01 333484		E. ZUNIGA			\$126.00	\$13.00	\$100.00		\$239.00
	Required: Student Petition.									

Physical Education

PE-185 PHYSICAL ACTIVITY CLASSES, 1 CREDIT	Recommended: Current physical examination before enrolling									
OC LCT	BASEBALL TECHNIQUES II, 1 CREDIT		J. HOPPEL			\$126.00	\$13.00	\$30.00		\$169.00
	PE-185-006 337553 MTWTHF 3-4:50 PM Meets: 9/9-10/11. Required: Student Petition.									
OC LCT	BASKETBALL, MEN'S CNDTNG II, 1 CREDIT		C. WEGNER			\$126.00	\$13.00	\$30.00		\$169.00
	PE-185-004 337551 MWF 12-1:50 PM Required: Student Petition.									
OC LCT	BASKETBALL, WOMEN'S CNDTNG II, 1 CREDIT		K. GUELSDORF			\$126.00	\$13.00	\$30.00		\$169.00
	PE-185-005 337552 MWF 4-5:50 PM Required: Student Petition.									
ONL LCT	CROSS TRAINING IV, 1 CREDIT		B. STAMME			\$126.00	\$13.00	\$30.00		\$169.00
	PE-185-028 337554									
ONL LCT	CROSS TRAINING IV, 1 CREDIT		B. STAMME			\$126.00	\$13.00	\$30.00		\$169.00
	PE-185-031 337555									

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total	Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total		
ONL	CROSS TRAINING IV, 1 CREDIT PE-185-032 337556 J. MARTINEAU \$126.00 \$13.00 \$30.00 \$169.00										ONL	PE-280-01 334142 T. NELSON \$756.00 \$78.00 \$45.00 \$879.00V Required: Student Petition. Corequisite: Take the following CWE-281-06.											
OFF HYB	PICKLEBALL I, 1 CREDIT PE-185-01 338993 TTH K. WOODS \$126.00 \$13.00 \$30.00 \$169.00							1-2:50 PM			PE-294	PROFESSIONAL ACTIVITIES, 1 CREDIT Advanced team skills and strategy courses. Designed to provide the student with basic skills and methodology necessary to conduct physical fitness programs in the school, corporate, and community setting. Emphasis is placed on fitness concepts, techniques of weight training and aerobic exercises to encourage life-long physical activity. Course offerings are: baseball, basketball, cross-country, soccer, softball, track and field, volleyball, and wrestling. Required: Student Petition.											
OC LCT	SOFTBALL TECHNIQUES II, 1 CREDIT PE-185-064 337557 MTWTH J. BUEL \$126.00 \$13.00 \$30.00 \$169.00 Meets: 9/9-10/11. Required: Student Petition.							1-2:50 PM			oc	CROSS COUNTRY SKILLS & STRAT., 1 CREDIT PE-294-02 337560 MTWTHF J. MARTINEAU \$126.00 \$13.00 \$30.00 \$169.00 Required: Student Petition.											
OC LCT	TRACK FUNDAMENTALS II, 1 CREDIT PE-185-082 337559 MWF K. MCHONE \$126.00 \$13.00 \$30.00 \$169.00 Required: Student Petition.							1:30 -2:50 PM			oc	SOCCER SKILLS & STRATEGIES, 1 CREDIT PE-294-03 337561 MW T. LEWIS \$126.00 \$13.00 \$30.00 \$169.00 Required: Student Petition.											
ONL LCT	WALK, JOG, FITNESS I, 1 CREDIT PE-185-025 334115 K. MCHONE \$126.00 \$13.00 \$30.00 \$169.00										oc	SOCCER SKILLS & STRATEGIES, 1 CREDIT PE-294-03 337561 MW T. LEWIS \$126.00 \$13.00 \$30.00 \$169.00 Required: Student Petition.											
OC LCT	WEIGHT TRAINING I, 1 CREDIT PE-185-039 334121 TTH C. WEGNER \$126.00 \$13.00 \$30.00 \$169.00							10-11:20 AM			oc	VOLLEYBALL SKILLS & STRATEGIES, 1 CREDIT PE-294-04 337562 TTH A. ITAMI \$126.00 \$13.00 \$30.00 \$169.00 Required: Student Petition.											
ONL LCT	WEIGHT TRAINING I, 1 CREDIT PE-185-018 334110 C. WEGNER \$126.00 \$13.00 \$30.00 \$169.00										oc	VOLLEYBALL SKILLS & STRATEGIES, 1 CREDIT PE-294-04 337562 TTH A. ITAMI \$126.00 \$13.00 \$30.00 \$169.00 Required: Student Petition.											
OC LCT	WRESTLING CONDITIONING II, 1 CREDIT PE-185-076 337558 MTWTHF R. SANCHEZ \$126.00 \$13.00 \$30.00 \$169.00 Meets: 9/3-10/4. Required: Student Petition.							6:30 -7:50 AM			ONL	PE-294A-01 334144 P. FISKUM \$252.00 \$26.00 \$0.00 \$278.00											
ONL LCT	YOGA I, 1 CREDIT PE-185-008 334108 E. HANCOCK \$126.00 \$13.00 \$30.00 \$169.00																						
PE-240	STRENGTH & CONDITIONING THEORY & TECHNIQUES, 3 CREDITS An overview of introductory exercise physiology, biomechanics, program design, and exercise techniques that prepares students to design and implement physical training programs and exercise for clients and athletes.																						
OC HYB	PE-240-01 334138 W K. MCHONE \$378.00 \$39.00 \$0.00 \$417.00							11-11:50 AM															
PE-270	SPORT AND EXERCISE PSYCHOLOGY, 3 CREDITS The course is designed to provide students with the basic understanding and knowledge of psychological skills used to improve physical performance in themselves, peers, teammates, and athletes they coach. The course would be well-suited for athletes, coaches, or exercise leaders.																						
ONL	PE-270-01 334140 K. MCHONE \$378.00 \$39.00 \$0.00 \$417.00																						
PE-280	PHYSICAL EDUCATION/CWE, 2-6 CREDITS Cooperative work experience. Provides students with on-the-job experience and training related to the Physical Education field. Covers job problems and procedures, evaluation of students' job performance by qualified college staff and site supervision. May be repeated for up to 12 credits. Required: Student Petition. Corequisites: CWE-281																						

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Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
Prerequisites: PH-121 or GS-107 Corequisites: PH-122L										
ONL	PH-122-40 334149									
	T. STUFFLEBEAM	\$504.00	\$52.00	\$20.00		\$576.00				
	Corequisite: Take the following PH-122L-40.									
PH-122L GENERAL ASTRONOMY LAB, 0 CREDIT Lab course for PH-112 Corequisites: PH-122										
ONL	PH-122L-40 334150									
	T. STUFFLEBEAM	\$0.00	\$0.00	\$0.00		\$0.00				
	Corequisite: Take the following PH-122-40.									
PH-201 GENERAL PHYSICS, 5 CREDITS A lab course covering vectors, motion, kinematics, forces and Newton's laws, gravity, the conservation laws for momentum and energy, rotational motion, and oscillations. Prerequisites: MTH-112Z or placement in MTH-251 Corequisites: PH-201L and PH-201S Prerequisites: WRD-090 with a C or better or placement in WRD-098 Recommended Prerequisites: A year of high-school physics or PH-150										
oc	PH-201-01 334152 MW							11-12:20 PM		
	T. STUFFLEBEAM	\$630.00	\$65.00	\$50.00		\$745.00				
	Corequisite: Take 2 of the following PH-201L-01, PH-201L-02, PH-201L-03, PH-201L-04, PH-201S-01.									
PH-201L GENERAL PHYSICS LAB, 0 CREDIT Lab course for PH-201 Corequisites: PH-201 and PH-201S										
oc	PH-201L-01 334154 T							9-11:50 AM		
	G. BOSTROM	\$0.00	\$0.00	\$0.00		\$0.00				
	Corequisite: Take the following PH-201-01, PH-201S-01.									
oc	PH-201L-02 334156 T							1-3:50 PM		
	G. BOSTROM	\$0.00	\$0.00	\$0.00		\$0.00				
	Corequisite: Take the following PH-201-01, PH-201S-01.									
oc	PH-201L-03 334157 TH							1-3:50 PM		
	G. BOSTROM	\$0.00	\$0.00	\$0.00		\$0.00				
	Corequisite: Take the following PH-201-01, PH-201S-01.									
oc	PH-201L-04 334159 F							11-1:50 PM		
	G. BOSTROM	\$0.00	\$0.00	\$0.00		\$0.00				
	Corequisite: Take the following PH-201-01, PH-201S-01.									
PH-201S GENERAL PHYSICS SEMINAR, 0 CREDIT Seminar course for PH-201 Corequisites: PH-201 and PH-201L										
oc	PH-201S-01 334161 MW							12:25 -12:50 PM		
	T. STUFFLEBEAM	\$0.00	\$0.00	\$0.00		\$0.00				
	Corequisite: Take 2 of the following PH-201L-01, PH-201L-02, PH-201L-03, PH-201L-04, PH-201-01.									
PH-211 GENERAL PHYSICS WITH CALCULUS, 5 CREDITS A lab course covering vectors, motion, kinematics, forces and Newton's laws, gravity, conservation laws for momentum and energy, rotational motion, and oscillations.										
Prerequisite or Corequisite: MTH-252 Corequisites: PH-211L and PH-211S Prerequisite or Corequisite: WRD-090 with a C or better or placement in WRD-098 Recommended Prerequisites: MTH-254. A year of high-school physics or PH-150										
oc	PH-211-01 334163 MW							11-12:20 PM		
	G. BOSTROM	\$630.00	\$65.00	\$50.00		\$745.00				
	Corequisite: Take 2 of the following PH-211L-01, PH-211L-02, PH-211L-03, PH-211L-04, PH-211S-01, PH-211S-02, PH-211S-03.									
oc	PH-211-02 334164 MW							1-2:20 PM		
	G. BOSTROM	\$630.00	\$65.00	\$50.00		\$745.00				
	Corequisite: Take 2 of the following PH-211L-01, PH-211L-02, PH-211L-03, PH-211L-04, PH-211S-01, PH-211S-02, PH-211S-03.									
PH-211L GENERAL PHYSICS WITH CALCULUS LAB, 0 CREDIT Lab course for PH-211 Corequisites: PH-211 and PH-211S										
oc	PH-211L-01 334166 T							9-11:50 AM		
	T. STUFFLEBEAM	\$0.00	\$0.00	\$0.00		\$0.00				
	Corequisite: Take 2 of the following PH-211-01, PH-211-02, PH-211S-01, PH-211S-02, PH-211S-03.									
oc	PH-211L-02 334168 T							1-3:50 PM		
	G. BOSTROM	\$0.00	\$0.00	\$0.00		\$0.00				
	Corequisite: Take 2 of the following PH-211-01, PH-211-02, PH-211S-01, PH-211S-02, PH-211S-03.									
oc	PH-211L-03 334169 TH							1-3:50 PM		
	G. BOSTROM	\$0.00	\$0.00	\$0.00		\$0.00				
	Corequisite: Take 2 of the following PH-211-01, PH-211-02, PH-211S-01, PH-211S-02, PH-211S-03.									
oc	PH-211L-04 334170 F							11-1:50 PM		
	G. BOSTROM	\$0.00	\$0.00	\$0.00		\$0.00				
	Corequisite: Take 2 of the following PH-211-01, PH-211-02, PH-211S-01, PH-211S-02, PH-211S-03.									
PH-211S GENERAL PHYSICS WITH CALCULUS SEMINAR, 0 CREDIT Seminar course for PH-211 Corequisites: PH-211 and PH-211L										
oc	PH-211S-01 334171 TH							4-4:50 PM		
	G. BOSTROM	\$0.00	\$0.00	\$0.00		\$0.00				
	Corequisite: Take 2 of the following PH-211L-01, PH-211L-02, PH-211L-03, PH-211L-04, PH-211-01, PH-211-02.									
oc	PH-211S-02 334172 F							10-10:50 AM		
	G. BOSTROM	\$0.00	\$0.00	\$0.00		\$0.00				
	Corequisite: Take 2 of the following PH-211L-01, PH-211L-02, PH-211L-03, PH-211L-04, PH-211-01, PH-211-02.									
oc	PH-211S-03 334173 F							2-2:50 PM		
	G. BOSTROM	\$0.00	\$0.00	\$0.00		\$0.00				
	Corequisite: Take 2 of the following PH-211L-01, PH-211L-02, PH-211L-03, PH-211L-04, PH-211-01, PH-211-02.									

Political Science

PS-200 INTRODUCTION TO POLITICAL SCIENCE, 4 CREDITS

A general introduction to the field of political science. Introduces and expands on basic political concepts and themes, explores political theory and ideology, and considers the dynamics of political institutions and government and how both are integrated into political life.

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	Instructor	Tuition	Fee	Fee	Crs. Fee			Instructor	Tuition	Fee	Fee	Crs. Fee	
Recommended Prerequisites: WRD-098 or placement in WR-121Z							ONL	PSY-201Z-03 337622	S. TOBIN	\$504.00	\$52.00	\$0.00	\$556.00
ONL	PS-200-01 334316	J. HITE	\$504.00	\$52.00	\$0.00	\$556.00	PSY-202Z INTRODUCTION TO PSYCHOLOGY II, 4 CREDITS						
<p>PS-201 AMERICAN GOVERNMENT AND POLITICS, 4 CREDITS Examines the founding principles of the American government, as well as the Constitution, the separation of powers, and the three branches of government, political parties and elections, and the role of interest groups and the media in the political process. In addition, assesses the growing power of the executive branch, the expansion and reach of the federal bureaucracy, governmental policies, and the civil liberties and civil rights of American citizens.</p> <p>Recommended Prerequisites: WRD-090 or placement in WRD-098</p>							<p>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.</p> <p>Recommended Prerequisites: WRD-090 or placement in WRD-098</p>						
OC HYB	PS-201-01 334319 T	J. HITE	\$504.00	\$52.00	\$0.00	\$556.00	OC HYB LCT	PSY-202Z-01 334351 M	I. MANCINELLI-FRANCONI	\$504.00	\$52.00	\$0.00	\$556.00
<p>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</p>							<p>Online textbook provided first day of class.</p>						
OC	PS-280-01 334322	D. LOUGEE	\$756.00	\$78.00	\$45.00	\$879.00V	ONL	PSY-202Z-02 334355	S. TOBIN	\$504.00	\$52.00	\$0.00	\$556.00
<p>Required: Student Petition. Corequisite: Take the following CWE-281-06.</p>							PSY-215 INTRODUCTION TO DEVELOPMENTAL PSYCHOLOGY, 4 CREDITS						
OC LCT	PSY-215-01 334356 TTH	J. KISSLER	\$504.00	\$52.00	\$0.00	\$556.00	<p>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</p>						
ONL LCT	PSY-215-02 334364	T. THOMAS	\$504.00	\$52.00	\$0.00	\$556.00	OC LCT	PSY-215-01 334356 TTH	J. KISSLER	\$504.00	\$52.00	\$0.00	\$556.00
ONL	PSY-215-03 334366	K. KRASKA	\$504.00	\$52.00	\$43.75	\$599.75	<p>Online textbook provided first day of class.</p>						
HAR	PSY-215-15 334368 MW	J. VELEZ	\$504.00	\$52.00	\$0.00	\$556.00	ONL LCT	PSY-215-02 334364	T. THOMAS	\$504.00	\$52.00	\$0.00	\$556.00
<p>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</p>							<p>Online textbook provided first day of class.</p>						
OC LCT	PSY-219-01 334371 MW	E. SAUBER	\$504.00	\$52.00	\$0.00	\$556.00	ONL LCT	PSY-219-02 334375	E. SAUBER	\$504.00	\$52.00	\$0.00	\$556.00
ONL	PSY-219-03 334376	S. KISER	\$504.00	\$52.00	\$0.00	\$556.00	ONL	PSY-219-03 334376	S. KISER	\$504.00	\$52.00	\$0.00	\$556.00
HAR HYB	PSY-219-15 334377 TH	S. KISER	\$504.00	\$52.00	\$0.00	\$556.00	PSY-231 INTRODUCTION TO HUMAN SEXUALITY, 4 CREDITS						
<p>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</p>							<p>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</p>						
OC LCT	PSY-201Z-01 334344 TTH	J. KISSLER	\$504.00	\$52.00	\$0.00	\$556.00	OC LCT	PSY-231-01 334379 TTH	E. SAUBER	\$504.00	\$52.00	\$0.00	\$556.00
OC LCT	PSY-201Z-02 334349 MW	J. KISSLER	\$504.00	\$52.00	\$0.00	\$556.00	<p>Online textbook provided first day of class.</p>						

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PSY-280 PSYCHOLOGY/CWE, 2-6 CREDITS (VAR)
 Cooperative work experience. This course allows students to engage in real-world learning and apply their academic knowledge in the field of psychology. Required: Student Petition.

Corequisites: CWE-281

oc	PSY-280-01	334383				
	J. KISSLER	\$756.00	\$78.00	\$45.00	\$879.00V	
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

Religion

R-102 CHRISTIANITY AND ISLAM, 4 CREDITS
 An introduction to Christianity and Islam, New Testament and Quran, the nature of Trinity and Tawhid, and includes the history and philosophy of other Western religious developments.

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

ONL	R-102-01	337619				
	J. SHELTON	\$504.00	\$52.00	\$0.00	\$556.00	

R-204 HISTORY OF CHRISTIANITY, 4 CREDITS
 An introduction to early Christianity, the Apostles, and formulation of the New Testament canon. Developments of post-apostolic Christianity and theology into the Modern Age. Contemporary topics include: Christianity in conflict, ethical and social religious issues, and the face of contemporary Christianity.

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

ONL	R-204-01	334390				
	J. SHELTON	\$504.00	\$52.00	\$0.00	\$556.00	

R-210 WORLD RELIGIONS, 4 CREDITS
 Examines religions and philosophies from around the world through film, text, and/or online presentations. Introduces Hinduism, Buddhism, Chinese/Japanese religions, Christianity, Judaism, Islam, and many other religious systems.

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

HAR	R-210-15	334391 MW		1-2:50 PM		
	J. SHELTON	\$504.00	\$52.00	\$0.00	\$556.00	

R-280 RELIGION/CWE, 2-6 CREDITS (VAR)
 Cooperative work experience. Provides students with on-the-job work experience in the field of religion. Required: Student Petition.

Corequisites: CWE-281

oc	R-280-01	334394				
	D. LOUGEE	\$756.00	\$78.00	\$45.00	\$879.00V	
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

Renewable Energy Technology

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

RET-280 RENEWABLE ENERGY/CWE, 1-6 CREDITS

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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	337925				
	TBA	\$756.00	\$78.00	\$307.50	\$1,141.50V	
	Required: Student Petition.					

Small Business Development Center

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

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

SBM-011 PROPERTY MANAGEMENT PRE-LICENSE, 0 CREDIT
 Prepares students to qualify for the Oregon Real Estate Property Management License exam by studying laws and statutes pertaining to the licensing and professional property management activity required by all licensees of the State of Oregon.

REM	SBM-011-02FA	338092 T			6-7:50 PM	
	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-020-01FA	337650 T			6:30 -9:20 PM	
	J. SELBY	\$0.00	\$0.00	\$0.00	\$0.00	
REM	SBM-020-02FA	337651 T			6:30 -9:20 PM	
	J. SELBY	\$0.00	\$0.00	\$0.00	\$0.00	
REM	SBM-020-03FA	337652 T			6:30 -9:20 PM	
	J. SELBY	\$0.00	\$0.00	\$0.00	\$0.00	
REM	SBM-020-04FA	337653 T			6:30 -9:20 PM	
	J. SELBY	\$0.00	\$0.00	\$0.00	\$0.00	

SBM-021 SMALL BUSINESS MANAGEMENT I, 0 CREDIT
 Part 1 of a multi-year program to help owners and managers of established businesses manage more effectively and achieve success. Course consists of class meetings, individual business counseling, peer networking, and work in/on the business. Class topics emphasize financial analysis, goals, and communication.

HAR	SBM-021-01FA	337669 TH			1-3:50 PM	
	R. CAMPBELL	\$0.00	\$0.00	\$0.00	\$0.00	

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HAR	SBM-021-02FA R. CAMPBELL	337670	TH	1-3:50 PM	\$0.00 \$0.00 \$0.00 \$0.00

SBM-021A SMALL BUSINESS MANAGEMENT I, 0 CREDIT

This class prepares small business owners to work ON the business rather than IN the business. Using the GrowthWheel toolbox students will work on four key challenges every business, large or small, must address: an attractive business concept; building lasting customer relations; maintaining profitable operations; and building a strong organizational structure.

HAR	SBM-021A-01FA R. CAMPBELL	337671	TH	1-3:50 PM	\$0.00 \$0.00 \$0.00 \$0.00
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SBM-024 SUCCESSION PLANNING, 0 CREDIT

Learn how to harvest your small farm business, not just your crops. Succession planning in small farm ownership is a critical and complex 3-10 year process that, when done properly, helps farmers maximize their return on their farm investment so they can reach their long-term goals in retirement. This hands-on, 12 month program is designed to teach farmers and individuals who want to buy a farm, how to make it happen. Course consists of monthly class meetings, individual business counseling, peer networking, and work in/on the business.

HAR	SBM-024-01FA D. TOURNEY	337672	TH	1-3:50 PM	\$0.00 \$0.00 \$0.00 \$0.00
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SBM-024A 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	SBM-024A-01FA D. TOURNEY	337673	TH	1-3:50 PM	\$0.00 \$0.00 \$0.00 \$0.00
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SBM-028 SMALL BUSINESS MANAGEMENT I FOR CONSTRUCTION CONTRACTORS, 0 CREDIT

Provides information on starting and growing a successful construction business. Teaches students marketing techniques, estimating methods, tax strategies and recordkeeping. Discusses best practices of working with subcontractors and hiring and managing employees.

REM	SBM-028-01FA D. TOURNEY	337674	W	6-7:20 PM	\$0.00 \$0.00 \$0.00 \$0.00
REM	SBM-028-02FA D. TOURNEY	337675	TH	6-7:20 PM	\$0.00 \$0.00 \$0.00 \$0.00

SBM-028A SMALL BUSINESS MANAGEMENT I FOR CONSTRUCTION CONTRACTORS, 0 CREDIT

Provides information on starting and growing a successful construction business. Teaches students marketing techniques, estimating methods, tax strategies and recordkeeping. Discusses best practices of working with subcontractors and hiring and managing employees.

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REM	SBM-028A-01FA D. TOURNEY	337676	W	6-7:20 PM	\$0.00 \$0.00 \$0.00 \$0.00
REM	SBM-028A-02FA D. TOURNEY	337677	TH	6-7:20 PM	\$0.00 \$0.00 \$0.00 \$0.00

SBM-029 SMALL BUSINESS MANAGEMENT II FOR CONSTRUCTION CONTRACTORS, 0 CREDIT

Provides information on continuing to grow a successful construction business. Teaches students technology, marketing, construction math, risk management, financial reporting, safety, payroll and government contracting.

REM	SBM-029-01FA D. TOURNEY	337679	W	6-7:20 PM	\$0.00 \$0.00 \$0.00 \$0.00
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SBM-030 BUSINESS RECOVERY SMALL BUSINESS MANAGEMENT I, 0 CREDIT

Provides education for assessment of existing business model, diagnosis of the business and a prescriptive action plan to improve the business. Teaches students to research, study and apply content learned in class.

REM	SBM-030-01FA D. TOURNEY	337680	T	6:30 -7:50 PM	\$0.00 \$0.00 \$0.00 \$0.00
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XSBM-0003 GOING INTO BUSINESS, 0 CREDIT

Going Into Business orientation introduces the steps you need to take to start-up and successfully operate a small business in Oregon.

REM	XSBM-0003-01FA J. SELBY	337647	TH	6:30 -9:20 PM	\$0.00 \$0.00 \$0.00 \$0.00
REM	XSBM-0003-02FA J. SELBY	337648	TH	6:30 -9:20 PM	\$0.00 \$0.00 \$0.00 \$0.00
REM	XSBM-0003-03FA J. SELBY	337649	TH	6:30 -9:20 PM	\$0.00 \$0.00 \$0.00 \$0.00

XSBM-0011 QUICKBOOKS PRO: PART I, 0 CREDIT

Learn how to set up and use QuickBooks. Students enter company, customer and vendor information, produce invoices, accept payments, make deposits and pay bills using QuickBooks.

HAR	XSBM-0011-21FA C. WEESNER	337655	W	6-8:50 PM	\$0.00 \$0.00 \$0.00 \$0.00
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Social Science

SSC-235 PERSPECTIVES ON TERRORISM, 4 CREDITS

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

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

OC LCT	SSC-235-01 J. FLOWERS	334411	TTH	1-2:50 PM	\$504.00 \$52.00 \$0.00 \$556.00
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No textbook required.

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

Sociology

SOC-204 INTRODUCTION TO SOCIOLOGY, 4 CREDITS

This course offers an introduction to the field of sociology. Sociology is the scientific study of human behavior in society. In this course we will introduce and discuss issues including the sociological imagination, culture, socialization, deviance, authority, religion, science and methods of sociological research. Various sociological theories will be introduced and utilized to explore and enhance our understanding of these issues.

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

OC HYB	SOC-204-01	334396 W			10-11:50 AM	
	E. PFEIFER	\$504.00	\$52.00	\$0.00		\$556.00
OC HYB	SOC-204-02	334397 TH			1-2:50 PM	
	E. PFEIFER	\$504.00	\$52.00	\$0.00		\$556.00

SOC-205 SOCIAL STRATIFICATION & SOCIAL SYSTEMS, 4 CREDITS

This course explores the inequality that exists in our society. Social stratification is the unequal distribution of resources and opportunities in a society. Issues like gender, race, poverty, education and capitalism will be explored and discussed in an attempt to understand their impact on the inequality that we experience in our society. Various sociological theories will be introduced and utilized to explore and enhance our understanding of these issues.

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

OC HYB	SOC-205-01	334399 TH			10-11:50 AM	
	E. PFEIFER	\$504.00	\$52.00	\$0.00		\$556.00
OC HYB	SOC-205-02	334400 W			1-2:50 PM	
	E. PFEIFER	\$504.00	\$52.00	\$0.00		\$556.00

SOC-206 INSTITUTIONS & SOCIAL CHANGE, 4 CREDITS

This course explores how people can change their society. Social change is a process that can be used by people in a society, to change and improve the functioning of their society. This course will explore and discuss how people-led social movements, in the past and in the present, can be developed, organized, and implemented to accomplish social change.

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

HAR LCT	SOC-206-15	334401 TTH			10-11:50 AM	
	J. LOVELESS	\$504.00	\$52.00	\$0.00		\$556.00

SOC-210 MARRIAGE, FAMILY, & INTIMATE RELATIONS, 4 CREDITS

This course will introduce students to the study of marriage, intimate relations and family systems from the sociological viewpoint. Students will examine the ways in which race, class, gender, sexuality, community, and society influence patterns of courtship, intimate relations, marriage, and family, and explore the various challenges facing families today.

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

ONL	SOC-210-01	334402				
	J. LOVELESS	\$504.00	\$52.00	\$0.00		\$556.00

SOC-225 SOCIAL PROBLEMS, 4 CREDITS

Applies the sociological framework to the study of social problems, their identification, analysis of causes and possible solutions. Problems explored may include mental disorders, drug and alcohol addiction, crime and delinquency, group discrimination, inequality, poverty, alienation, domestic and international violence, environment, and energy.

Campus Locations:

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

Distance Education Notification:

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

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

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

ONL	SOC-225-01	337620				
	J. LOVELESS	\$504.00	\$52.00	\$0.00		\$556.00

SOC-280 SOCIOLOGY/CWE, 2-6 CREDITS (VAR)

Cooperative Work Experience. This course allows students who are already working in the field of sociology to earn college credit for that work. Required: Student Petition.

Corequisites: CWE-281

oc	SOC-280-01	334403				
	E. PFEIFER	\$756.00	\$78.00	\$45.00		\$879.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.					

Statistics

STAT-243Z ELEMENTARY STATISTICS I, 4 CREDITS

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

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

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

OC LCT	STAT-243Z-01	334412 MW			1-2:50 PM	
	S. PRUYN	\$504.00	\$52.00	\$20.00		\$576.00
OC HYB LCT	STAT-243Z-02	334413 TH			10-11:50 AM	
	K. AMREIN	\$504.00	\$52.00	\$20.00		\$576.00
OC HYB LCT	STAT-243Z-03	337597 T			3-4:50 PM	
	K. AMREIN	\$504.00	\$52.00	\$20.00		\$576.00
OC LCT	STAT-243Z-04	337600 TTH			6-7:50 PM	
	T. BIEBER	\$504.00	\$52.00	\$20.00		\$576.00
ONL LCT	STAT-243Z-12	334416				
	C. KYSER	\$504.00	\$52.00	\$20.00		\$576.00

Theatre Arts

TA-111 FUNDAMENTALS OF TECHNICAL THEATRE, 4 CREDITS

First class of a three part series. Basic study and practice in the collaborative techniques of mounting various types of productions for presentation. Includes basic principles and techniques in stage design, construction, and lighting. Flexible laboratory sessions available. Students must attend a performance as well as participate in the focus and strike (10 total hours) of a production. Students are required to maintain an independent journal/study (12 total hours) of outside class activity and/or observations of Technical Theatre applications.

OC LCT	TA-111-01	333380 TTH			1-3:50 PM	
	C. WHITTEN	\$504.00	\$52.00	\$35.00		\$591.00

TA-121 COSTUMING I, 3 CREDITS

First in a three-part series. Study and practice in theatrical costuming techniques for various types of live theatrical productions. Students will analyze scripts, research historical background, and study period fashion to develop character wardrobes. This is a project-based course where students will construct and tailor costume and prop pieces for cast members. No experience necessary; limited seats.

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

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

Course No	Course Title, Credits	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
Section No	Instructor	Tuition	Fee	Crs. Fee	
OC LCT	TA-121-01 333388 MW A. HEMLOCK	\$378.00	\$39.00	\$0.00	\$417.00

TA-141 ACTING I, 4 CREDITS

Studies the methods, techniques, and theories of acting as an art form. Students perform acting exercises and monologues/scenes from dramatic literature, attend lectures, and participate in work-shopping and discussion. Written work is assigned that includes response and analysis papers. Introduces vocal, physical, and script analysis skills. First in a series.

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

OC LCT	TA-141-01 333392 MW TBA	\$504.00	\$52.00	\$35.00	\$591.00
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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 333395 MWF TBA	\$378.00	\$39.00	\$25.00	\$442.00V
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Required: Student Petition.

TA-195 STUDENT PERFORMANCE SHOWCASE, 1-3 CREDITS (VAR)

Training in special forms of theatrical presentation through in-class intensive preparation, study, and program development for public presentation, including comedy improvisation, stand-up comedy, and student directed one-act plays. Roles in one-act plays require a successful audition. Other opportunities open to all. May be repeated for up to 6 credits.

OC LCT	TA-195-01 333401 MWF C. WHITTEN	\$378.00	\$39.00	\$35.00	\$452.00V
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Meets: Improv 12-12:50pm, One-Acts 1-1:50pm, Stand-Up 2-2:50pm.

TA-211 TECHNICAL THEATRE STUDY, 4 CREDITS

Comprehensive study and practice in presentational graphics, scene design, lighting design, and chromatics. The full creative process of staging a production will be explored through aesthetic research and design projects. Includes hands-on participation in CCC's main stage productions.

Prerequisites: TA-111, TA-112, and TA-113

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

OC LCT	TA-211-01 333406 TTH C. WHITTEN	\$504.00	\$52.00	\$35.00	\$591.00
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TA-253 THEATRE REHEARSAL & PERFORMANCE, 1-3 CREDITS (VAR)

Intermediate training in theatre production through intensive study and rehearsal of scenes and plays for public performance. May be repeated for up to 6 credits. Required: Student Petition.

Required: Successful audition/interview

Recommended Prerequisites: TA-153

OC LCT	TA-253-01 333409 MWF TBA	\$378.00	\$39.00	\$25.00	\$442.00V
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Required: Student Petition.

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

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

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

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

TA-280 THEATRE/CWE, 2-6 CREDITS

Cooperative work experience. Provides students with a learning experience related to course of study and career goal. Major emphasis will be given to on-the-job experience and training. Required: Student Petition.

Corequisites: CWE-281

ONL LCT	TA-280-01 333415 C. WHITTEN	\$756.00	\$78.00	\$45.00	\$879.00V
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Required: Student Petition.

TA-295 STUDENT PERFORMANCE SHOWCASE, 1-3 CREDITS (VAR)

Training in special forms of theatrical presentation through in-class intensive preparation, study, and program development for public presentation, including comedy improvisation, stand-up comedy, and student directed one-act plays. Roles in one-act plays require a successful audition. Other opportunities open to all. May be repeated for up to 6 credits.

OC LCT	TA-295-01 333421 MWF C. WHITTEN	\$378.00	\$39.00	\$35.00	\$452.00V
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Meets: Improv 12-12:50pm, One-Acts 1-1:50pm, Stand-Up 2-2:50pm.

XATH-0001 PLAYS & REHEARSALS, 0 CREDIT

Training in theatre production through intensive study and rehearsal of scenes and plays for public performance.

OC	XATH-0001-01 337583 MWF TBA	\$0.00	\$0.00	\$35.00	\$35.00
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XATH-0002 STAGECRAFT, 0 CREDIT

Training in special forms of theatrical presentation through in-class intensive preparation, study and program development for public presentation to the community.

OC	XATH-0002-01 337584 MWF TBA	\$0.00	\$0.00	\$35.00	\$35.00
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Water & Environmental Technology

WET-010 WASTEWATER OPERATIONS I, 3 CREDITS

For professional upgrade only. Does not meet the requirements for the college certificate or the associates of science degree. Introduction to the fundamentals of wastewater operations. Includes collections systems, preliminary and primary treatment, waste characteristics including organic removals, and solids profiles.

OC HYB	WET-010-01 334187 M M. LAFORCE	\$378.00	\$39.00	\$15.00	\$432.00
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For professional upgrade only.

WET-011 WATERWORKS OPERATIONS I, 3 CREDITS

For professional upgrade only. Does not meet the requirements for the certificate or degree. Introduction to municipal drinking water treatment and distribution systems. Basic waterworks hydraulics, drinking water regulations, waterworks math, waterworks microbiology, and introduction to water disinfection.

OC HYB	WET-011-01 334189 T J. NURMI	\$378.00	\$39.00	\$15.00	\$432.00
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For professional upgrade only.

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total	Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total	
		Instructor		Tuition	Fee	Crs. Fee			Instructor		Tuition	Fee	Crs. Fee	Total
WET-108	CROSS-CONNECTION CONTROL PROGRAM SPECIALIST, 3 CREDITS													
	Specialized training for those who want to be involved in administering cross-connection control programs. Elements of a cross-connection control program, basic hydraulics, state specific regulations, identifying possible cross-connections and site surveys in order to determine proper type of backflow protection, if needed.													
oc	WET-108-01	334192	TWTHF			8-3:50 PM								
	J. NURMI			\$378.00	\$39.00	\$0.00	\$417.00							
	Meets: 12/10-12/13. This is a four-day workshop. Must attend all four days for full credit and certification.													
WET-109	BACKFLOW ASSEMBLY OPERATION AND TESTING, 4 CREDITS													
	Lecture course with lab component that focuses on backflow assembly hydraulics, operations, installation, and testing.													
oc	WET-109-01	334196	MTWTHF			8-5:00 PM								
	M. LAFORCE			\$504.00	\$52.00	\$4.00	\$560.00							
	Meets: 12/9-12/13.													
oc	WET-109-02	334200	MTWTHF			8-5:00 PM								
	M. LAFORCE			\$504.00	\$52.00	\$4.00	\$560.00							
	Meets: 9/16-9/20.													
WET-110	WASTEWATER OPERATIONS I, 3 CREDITS													
	Introduction to the fundamentals of wastewater character and operations. Includes collections systems, preliminary and primary treatment, waste characteristics including organic removals, and solids profiles.													
	Corequisites: MTH-082A													
OC HYB	WET-110-01	334204	M			6-8:50 PM								
	M. LAFORCE			\$378.00	\$39.00	\$15.00	\$432.00							
WET-111	WATERWORKS OPERATIONS I, 3 CREDITS													
	Introduction to municipal drinking water treatment and distribution systems. Basic waterworks hydraulics, drinking water regulations, waterworks math, waterworks microbiology, and introduction to water disinfection.													
	Corequisites: MTH-082B													
OC HYB	WET-111-01	334205	T			6-8:50 PM								
	J. NURMI			\$378.00	\$39.00	\$15.00	\$432.00							
WET-112	COMPUTER APPLICATIONS FOR WATER AND WASTEWATER OPERATIONS, 4 CREDITS													
	Focuses on direct application of Microsoft Word, PowerPoint, and Excel for producing compliance reports, professional presentations, and data analysis. Emphasis will be put on the use of Excel for statistical analysis of water and wastewater plant data for state and federal compliance. Supervisory control and Data Acquisition (SCADA) will also be covered. Wastewater simulators will be explored and used to design and manipulate unit processes.													
	Corequisites: WET-110 and WET-111													
OC HYB	WET-112-01	334207	TBA			2-4:50 PM								
	M. LAFORCE		M	\$504.00	\$52.00	\$0.00	\$556.00							
WET-125	HIGH PURITY WATER PRODUCTION I, 3 CREDITS													
	Fundamentals of high purity water chemistry, reverse osmosis treatment, ion exchange treatment, electrode ionization treatment, UV, ozonation, degasification and microfiltration as applied to the production of high purity water for the semiconductor, pharmaceutical and electric power generating industries.													
	Corequisites: MTH-082E													
REM	WET-125-01	334208	T			9-12:50 PM								
	G. CARR			\$378.00	\$39.00	\$15.00	\$432.00							
WET-180	WATER & ENVIRONMENTAL PROJECTS I, 5 CREDITS													
	Practical work experience in a municipal industrial treatment, distribution, or collection system. Placement in consulting firms, federal and state regulatory agencies, BLM, BPA, and other regulated governmental organizations.													
	Corequisites: CWE-281													
ONL	WET-180-01	334209												
	M. LAFORCE			\$630.00	\$65.00	\$45.00	\$740.00							
	Required: Student Petition. Corequisite: Take the following CWE-281-03.													
WET-241	AQUATIC MICROBIOLOGY, 4 CREDITS													
	A lab course with topics in applied microbiology. Methods to detect coliform group in water and wastewater. Identification of filamentous bacteria in activated sludge, and identification of indicator protozoa in activated sludge. A bacteriological stream survey project is included.													
	Prerequisites: BI-204													
oc	WET-241-01	334210	TBA			9-11:50 AM								
	J. NURMI		MW	\$504.00	\$52.00	\$40.00	\$596.00							
WET-242	HYDRAULICS FOR WATER & WASTEWATER, 3 CREDITS													
	Introduction to closed conduit and open channel flow. Includes hydrostatics and dynamics, head-loss, pump characteristics, Bernoulli's and the energy equations, and basic characteristics of water.													
	Prerequisites: WET-122													
OC HYB	WET-242-01	334213	MW			12:30 -1:50 PM								
	M. LAFORCE			\$378.00	\$39.00	\$15.00	\$432.00							
WET-245	INSTRUMENTATION & CONTROL, 4 CREDITS													
	A lab course introducing methods used to monitor and control treatment processes in wastewater, water and high purity water facilities. Advanced water analysis to include typical monitoring of high purity water treatment. Fundamentals of control loops, control systems and data management.													
OC HYB	WET-245-01	334217	W			4-5:50 PM								
	G. CARR			\$504.00	\$52.00	\$40.00	\$596.00							
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	WET-280-01	334220												
	M. LAFORCE			\$630.00	\$65.00	\$45.00	\$740.00							
	Required: Student Petition. Corequisite: Take the following CWE-281-03.													

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
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HYB: In-person plus online work

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

Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total	Course No	Course Title, Credits	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
	Instructor	Tuition	Fee		Crs. Fee			Instructor	Tuition	Fee		Crs. Fee	
XWET-C001	1-DAY CROSS CONNECTION SPECIALIST UPDATE, 0.60 CEUS						XWET-C005	5-DAY BACKFLOW TESTER COURSE, 4.00 CEUS					
Update on code information or any changes in the program.							Presentation of backflow prevention assemblies used for water/wastewater system cross connection control. Class will include overview of hydraulics and degree of hazards, proper backflow installation procedures, and approved testing/troubleshooting procedures. Students will learn to identify common, actual, and potential cross connection hazards; students will be introduced to the basic requirements for carrying out a cross connection program. Students will be able to apply to Oregon Health Authority for Certification by that agency.						
oc	XWET-C001-31	334373 F			8-3:50 PM		oc	XWET-C005-51	334384 MTWTHF		8-5:00 PM		
	J. NURMI	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		M. LAFORCE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Meets: 11/1. Fee: \$100.00. Go to ccc-wet.eventbrite.com to sign up.							Meets: 12/9-12/13. Fee: \$500.00. Go to ccc-wet.eventbrite.com to sign up.					
XWET-C002	1-DAY TESTER RENEWAL, 0.60 CEUS						oc	XWET-C005-52	334385 MTWTHF		8-5:00 PM		
Update on OARs and hands on testing to recertify student for backflow assembly certification through the State of Oregon.							Meets: 9/16-9/20. Fee: \$500.00. Go to ccc-wet.eventbrite.com to sign up.						
oc	XWET-C002-11	334374 F			8-3:50 PM		oc	XWET-C005-52	334385 MTWTHF		8-5:00 PM		
	M. LAFORCE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		M. LAFORCE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	J. NURMI	Meets: 10/4. Fee: \$100.00. Go to ccc-wet.eventbrite.com to sign up.						Meets: 9/16-9/20. Fee: \$500.00. Go to ccc-wet.eventbrite.com to sign up.					
oc	XWET-C002-12	334378 F			8-3:50 PM								
	M. LAFORCE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00							
	Meets: 12/6. Fee: \$100.00. Go to ccc-wet.eventbrite.com to sign up.												
XWET-C003	2-DAY TESTER RETRAIN/RENEWAL, 1.20 CEUS												
Review of backflow prevention assemblies used for water/wastewater system cross connection control. Review will include overview of hydraulics and degree of hazards, proper backflow installation procedures, and approved testing/troubleshooting procedures. Students will learn to identify common, actual, and potential cross connection hazards; students will be introduced to the basic requirements for carrying out a cross connection program. Upon successful hands on and written exam completion, students will be issued certificate of completion by OBT/CCC and transcribed for appropriate number of CEUs. Students will be able to apply to Oregon Health Department for recertification by that agency.													
oc	XWET-C003-21	334380 THF			8-3:50 PM								
	M. LAFORCE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00							
	Meets: 10/17-10/18. Fee: \$200.00. Go to ccc-wet.eventbrite.com to sign up.												
oc	XWET-C003-22	334381 THF			8-3:50 PM								
	M. LAFORCE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00							
	Meets: 11/14-11/15. Fee: \$200.00. Go to ccc-wet.eventbrite.com to sign up.												
XWET-C004	4-DAY CROSS CONNECTION SPECIALIST COURSE, 3.20 CEUS												
Designed to provide information to individuals involved in the protection of public water systems from contamination due to cross connections. This course should be of special interest to cross connection control specialists, plumbing inspectors, waterworks managers, and backflow device testers.													
oc	XWET-C004-41	334382 TWTHF			8-3:50 PM								
	J. NURMI	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00							
	Meets: 12/10-12/13 Fee: \$400.00. Go to ccc-wet.eventbrite.com to sign up. This is an in-person only workshop.												

Welding Technology

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

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

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

oc	WLD-100-01	334222 TH			2-4:50 PM	
	D. PODKOWA	\$378.00	\$39.00	\$219.00	\$636.00	
oc	WLD-100-02	334224 T			6-8:50 PM	
	M. TIZO	\$378.00	\$39.00	\$219.00	\$636.00	

WLD-102 INTRODUCTION TO WELDING, 2 CREDITS

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

oc LCT	WLD-102-01	334225 F			6-9:50 PM	
	A. TOWN	\$252.00	\$26.00	\$146.00	\$424.00	
oc LCT	WLD-102-02	334228 S			9-12:50 PM	
	M. TIZO	\$252.00	\$26.00	\$146.00	\$424.00	
oc LCT	WLD-102-03	334230 S			2-5:50 PM	
	K. DRURY	\$252.00	\$26.00	\$146.00	\$424.00	

WLD-102ES INTRODUCCIÓN A LA SOLDADURA, 2 CREDITS

Diseñado para soldaderos principiantes y experimental. Incluye corte y soldadura oxiacetileno, soldadura por arco de metal blindado (SMAW), la soldadura de arco de metal y gas (GMAW) y soldadura por Arco con Nucleo de Fundente (FCAW) y soldadura por arco de gas tungsteno (GTAW) y corte por plasma.

oc ESPAÑOL	WLD-102ES-01	337735 S			6-9:50 PM	
	F. PAXTOR	\$252.00	\$26.00	\$146.00	\$424.00	

Campus Locations:
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HYB: In-person plus online work

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

ESPAÑOL: Enseñado en español
LCT: Low-Cost Text

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

WLD-103 BLACKSMITHING & TRADITIONAL IRON WORKING, 2 CREDITS

This course introduces the student to basic blacksmithing techniques and processes, as well as terminology, steel types, heat treating and tool making. Multiple projects allow the student to practice the varied methods of manual metal forming. No welding experience required.

OC LCT	WLD-103-01	334232	F			6-9:50 PM								
	TBA			\$252.00	\$26.00	\$146.00								\$424.00
OC LCT	WLD-103-02	334236	SU			10-1:50 PM								
	TBA			\$252.00	\$26.00	\$146.00								\$424.00

WLD-110 WELDER CERTIFICATION, 4 CREDITS

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

OC LCT	WLD-110-01	334242	MW			8-11:50 AM								
	K. DRURY			\$504.00	\$52.00	\$432.00								\$988.00
	Required: Student Petition.													
OC LCT	WLD-110-02	334245	MW			1-4:50 PM								
	B. MULLIGAN			\$504.00	\$52.00	\$432.00								\$988.00
	Required: Student Petition.													
OC LCT	WLD-110-03	334250	MW			6-9:50 PM								
	M. TIZO			\$504.00	\$52.00	\$432.00								\$988.00
	Required: Student Petition.													
OC LCT	WLD-110-04	334251	TTH			8-11:50 AM								
	D. BATES			\$504.00	\$52.00	\$432.00								\$988.00
	Required: Student Petition.													
OC LCT	WLD-110-05	334252	TTH			6-9:50 PM								
	B. MULLIGAN			\$504.00	\$52.00	\$432.00								\$988.00
	Required: Student Petition.													
OC LCT	WLD-110-06	334255	TTH			1-4:50 PM								
	B. MULLIGAN			\$504.00	\$52.00	\$432.00								\$988.00
	Required: Student Petition.													

WLD-111 SHIELDED METAL ARC WELDING (STICK), 8 CREDITS

Provides students with the opportunity to acquire knowledge and skills to set up and operate equipment to perform fillet and groove welds in all positions with the SMAW process. Oxy-fuel cutting, air carbon arc cutting and gouging will be covered. Welding codes, standards, and specifications will be reviewed.

OC LCT	WLD-111-01	334259	MTWTH			6-9:50 PM								
	J. PHELPS			\$1,008.00	\$104.00	\$584.00								\$1,696.00
	0													

WLD-111A SHIELDED METAL ARC WELDING (STICK), 4 CREDITS

The first half of WLD-111 which provides the opportunity to acquire knowledge and skills to set up and operate equipment to perform fillet welds in flat and horizontal positions with the SMAW process. Oxy-fuel cutting, air carbon arc cutting and gouging will be covered.

OC LCT	WLD-111A-01	334260	MW			6-9:50 PM								
	J. PHELPS			\$504.00	\$52.00	\$292.00								\$848.00
oc	WLD-111A-02	334263	MTWTH			7:30 -9:20 AM								
	R. ABBOTT			\$504.00	\$52.00	\$292.00								\$848.00
oc	WLD-111A-03	334267	MTWTH			1:15 -3:05 PM								
	R. ABBOTT			\$504.00	\$52.00	\$292.00								\$848.00
oc	WLD-111A-04	337734	MTWTH			3:30 -5:20 PM								
	R. ABBOTT			\$504.00	\$52.00	\$292.00								\$848.00

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LCT: Low-Cost Text

WLD-111B SHIELDED METAL ARC WELDING (STICK), 4 CREDITS

The second half of WLD-111 which provides the opportunity to acquire additional knowledge and skills needed to perform more advanced fillet and groove welds in vertical and overhead positions with the SMAW process. Welding codes, standards, and specifications will be reviewed.

Prerequisites: WLD-111A

OC LCT	WLD-111B-01	334276	TTH			6-9:50 PM								
	J. PHELPS			\$504.00	\$52.00	\$292.00								\$848.00
OC LCT	WLD-111B-02	334278	MTWTH			7:30 -9:20 AM								
	R. ABBOTT			\$504.00	\$52.00	\$292.00								\$848.00
OC LCT	WLD-111B-03	334283	MTWTH			1:15 -3:05 PM								
	R. ABBOTT			\$504.00	\$52.00	\$292.00								\$848.00
oc	WLD-111B-04	337733	MTWTH			3:30 -5:20 PM								
	R. ABBOTT			\$504.00	\$52.00	\$292.00								\$848.00

WLD-113 GAS METAL ARC WELDING/FLUX CORE ARC WELDING (WIREFEED), 8 CREDITS

Provides students with the opportunity to acquire knowledge and skills to set up and operate equipment to perform fillet and groove welds in all positions with the Gas Metal Arc and Flux Core Arc Welding processes. Oxy-fuel cutting, and air carbon arc cutting and gouging will be covered. Welding codes, standards and specifications will be reviewed.

oc	WLD-113-01	334290	MTWTH			8-11:50 AM								
	D. PODKOWA			\$1,008.00	\$104.00	\$584.00								\$1,696.00
	0													

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

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

oc	WLD-113A-01	334291	MW			8-11:50 AM								
	D. PODKOWA			\$504.00	\$52.00	\$292.00								\$848.00

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

The second half of WLD-113 which provides the opportunity to acquire additional knowledge and skills needed to perform more advanced fillet and groove welds in vertical and overhead positions with the Gas Metal Arc and Flux Core Arc Welding processes. Welding codes, standards, and specifications will be reviewed.

Prerequisites: WLD-113A

oc	WLD-113B-01	334292	TTH			8-11:50 AM								
	D. PODKOWA			\$504.00	\$52.00	\$292.00								\$848.00

WLD-150 WELDING PROCESSES, 4 CREDITS

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

oc	WLD-150-01	334295	MW			6-9:50 PM								
	M. TIZO			\$504.00	\$52.00	\$292.00								\$848.00
oc	WLD-150-02	334297	MW			8-11:50 AM								
	K. DRURY			\$504.00	\$52.00	\$292.00								\$848.00

WLD-203 BLACKSMITHING & TRADITIONAL IRON WORKING II, 2 CREDITS

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

This course builds on the WLD-103 course and expands on the process of forged metal work. Instruction includes power hammer use, tooling design, traditional joinery, and intermediate projects. Welding experience helpful, but not required.

OC LCT	WLD-203-01	334298 SU			2-5:50 PM	
	TBA		\$252.00	\$26.00	\$146.00	\$424.00

WLD-210 PIPE WELDING, 4 CREDITS

Provides beginning theory and practical instruction in the Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux Core Arc Welding (FCAW), or Gas Tungsten Arc Welding (GTAW) processes on steel plate and pipe. The specific projects include: stringer beads, fillet and groove welds on plate with root and cover proficiency, pipe cutting using the oxy-fuel process, pipe beveling and groove welds on pipes in all positions. The student may choose which process or processes will be used to complete the lab assignments.

Prerequisites: WLD-111, or WLD-111A and WLD-111B. WLD-113, or WLD-113A and WLD-113B. WLD-115, or WLD-115A and WLD-115B. WLD-150 or prior experience in SMAW, GMAW, FCAW, or GTAW

OC LCT	WLD-210-01	334299 MW			1-4:50 PM	
	B. MULLIGAN		\$504.00	\$52.00	\$292.00	\$848.00

Required: Student Petition.

WLD-211 ADVANCED SHIELDED METAL ARC WELDING, 4 CREDITS

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

Prerequisites: WLD-111; or WLD-111A and WLD-111B

OC LCT	WLD-211-01	334302 TTH			6-9:50 PM	
	B. MULLIGAN		\$504.00	\$52.00	\$292.00	\$848.00

WLD-212 SHIELDED METAL ARC WELDING PIPE WELDING, 4 CREDITS

This class is designed to teach students the fundamentals of open root pipe welding. Theory and practical instruction in open root V groove pipe welding using E6010 and E7018 electrodes will be provided. Oxy-fuel pipe cutting is also included. Required: Student Petition.

Prerequisites: WLD-211

OC LCT	WLD-212-01	334303 MW			1-4:50 PM	
	B. MULLIGAN		\$504.00	\$52.00	\$292.00	\$848.00

Required: Student Petition.

WLD-213 ADVANCED GAS METAL ARC WELDING/FLUX CORE ARC WELDING, 4 CREDITS

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

Prerequisites: WLD-113; or WLD-113A and WLD-113B

OC LCT	WLD-213-01	334305 TTH			8-11:50 AM	
	D. BATES		\$504.00	\$52.00	\$292.00	\$848.00

WLD-250 WELDING FABRICATION I BEGINNING PROJECT, 4 CREDITS

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

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

Prerequisites: WLD-111, WLD-113, or WLD-115

OC LCT	WLD-250-01	334307 TTH			1-4:50 PM	
	B. MULLIGAN		\$504.00	\$52.00	\$292.00	\$848.00

WLD-251 WELDING FABRICATION II INTERMEDIATE PROJECT, 4 CREDITS

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

Prerequisites: WLD-250

OC LCT	WLD-251-01	334309 TTH			1-4:50 PM	
	B. MULLIGAN		\$504.00	\$52.00	\$292.00	\$848.00

WLD-252 WELDING FABRICATION III ADVANCED PROJECT, 4 CREDITS

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

Prerequisites: WLD-251

OC LCT	WLD-252-01	334311 TTH			1-4:50 PM	
	B. MULLIGAN		\$504.00	\$52.00	\$292.00	\$848.00

WLD-261 WELDING SPECIAL PROJECTS, 1-2 CREDITS (VAR)

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

OC LCT	WLD-261-01	334312 M			8-11:50 AM	
	D. PODKOWA		\$252.00	\$26.00	\$146.00	\$424.00V

Required: Student Petition.

OC LCT	WLD-261-02	334315 M			1-4:50 PM	
	B. MULLIGAN		\$252.00	\$26.00	\$146.00	\$424.00V

Required: Student Petition.

OC LCT	WLD-261-03	334317 M			6-9:50 PM	
	J. PHELPS		\$252.00	\$26.00	\$146.00	\$424.00V

Required: Student Petition.

OC LCT	WLD-261-04	334318 T			6-9:50 PM	
	J. PHELPS		\$252.00	\$26.00	\$146.00	\$424.00V

Required: Student Petition.

OC LCT	WLD-261-05	334320 W			8-11:50 AM	
	D. PODKOWA		\$252.00	\$26.00	\$146.00	\$424.00V

Required: Student Petition.

OC LCT	WLD-261-06	334321 W			1-4:50 PM	
	B. MULLIGAN		\$252.00	\$26.00	\$146.00	\$424.00V

Required: Student Petition.

OC LCT	WLD-261-07	334323 W			6-9:50 PM	
	J. PHELPS		\$252.00	\$26.00	\$146.00	\$424.00V

Required: Student Petition.

Course No	Course Title, Credits		Days (M,T,W,Th,F,S,SU)	Time	Total
	Section No	Crs Reg.	Tuition	Fee	Crs. Fee
OC LCT	WLD-261-08	334324	TH	6-9:50 PM	
	J. PHELPS	\$252.00	\$26.00	\$146.00	\$424.00V
	Required: Student Petition.				
OC LCT	WLD-261-09	334325	F	6-9:50 PM	
	A. TOWN	\$252.00	\$26.00	\$146.00	\$424.00V
	Required: Student Petition.				
OC LCT	WLD-261-10	334326	S	9-12:50 PM	
	M. TIZO	\$252.00	\$26.00	\$146.00	\$424.00V
	Required: Student Petition.				
OC LCT	WLD-261-11	334327	S	2-5:50 PM	
	K. DRURY	\$252.00	\$26.00	\$146.00	\$424.00V
	Required: Student Petition.				
OC LCT	WLD-261-12	334329	SU	10-1:50 PM	
	TBA	\$252.00	\$26.00	\$146.00	\$424.00V
	Required: Student Petition.				
OC LCT	WLD-261-13	334330	SU	2-5:50 PM	
	TBA	\$252.00	\$26.00	\$146.00	\$424.00V
	Required: Student Petition.				
OC LCT	WLD-261-14	334331	T	8-11:50 AM	
	D. PODKOWA	\$252.00	\$26.00	\$146.00	\$424.00V
	Required: Student Petition.				
OC LCT	WLD-261-15	334332	TH	8-11:50 AM	
	D. PODKOWA	\$252.00	\$26.00	\$146.00	\$424.00V
	Required: Student Petition.				

WLD-280 WELDING TECHNOLOGY/CWE, 1-6 CREDITS (VAR)

Cooperative work experience in the welding trades. Worksite to be determined prior to registering for this class. Skills learned from welding classes will be applied while working at a job site. Goals for this class will be established with the company supervisor, instructor, and student. May be repeated for up to 9 credits. Required: Student Petition.

Corequisites: CWE-281

OC LCT	WLD-280-01	334333			
	TBA	\$756.00	\$78.00	\$45.00	\$879.00V
	Required: Student Petition. Corequisite: Take the following CWE-281-06.				

XWLD-0001 AMERICAN WELDING SOCIETY (WLD) CERTIFICATION 1 PLATE TEST, 0 CREDIT

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

oc	XWLD-0001-	334386	TBA		
	01				
	B. MULLIGAN	\$0.00	\$0.00	\$140.00	\$140.00
	Required: Student Petition.				

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

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

oc	XWLD-0002-	334387	TBA		
	01				
	B. MULLIGAN	\$0.00	\$0.00	\$280.00	\$280.00
	Required: Student Petition.				

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

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

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	Section No	Crs Reg.	Tuition	Fee	Crs. Fee
OC	XWLD-0003-	334389	TBA		
	01				
	B. MULLIGAN	\$0.00	\$0.00	\$25.00	\$25.00
	Required: Student Petition.				

Women's Studies

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

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

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

OC HYB LCT	WS-101-01	334500	M	10-11:50 AM	
	K. SEVERSON	\$504.00	\$52.00	\$0.00	\$556.00
	Online textbook provided first day of class.				
ONL LCT	WS-101-02	334501			
	T. BOYLE-	\$504.00	\$52.00	\$0.00	\$556.00
	GALESTIANTZ				
	No textbook required.				

World Languages

ASL-101 FIRST-YEAR AMERICAN SIGN LANGUAGE I, 4 CREDITS

First term of a three-term introductory course. Everyday communication is the centerpiece of each lesson. Topics revolve around sharing information about ourselves and our environment. Grammar is introduced in context, with an emphasis on developing question and answering skills. Strategies are presented to help the student maintain a conversation.

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

oc	ASL-101-01	333758	MW	10-11:50 AM	
	A. ELLIS	\$504.00	\$52.00	\$10.00	\$566.00
	One-time textbook purchase for ASL-101 & ASL-102.				
oc	ASL-101-02	333762	MW	1-2:50 PM	
	A. ELLIS	\$504.00	\$52.00	\$10.00	\$566.00
	One-time textbook purchase for ASL-101 & ASL-102.				
ONL	ASL-101-03	333764			
	A. ELLIS	\$504.00	\$52.00	\$10.00	\$566.00
	One-time textbook purchase for ASL-101 & ASL-102.				

ASL-102 FIRST-YEAR AMERICAN SIGN LANGUAGE II, 4 CREDITS

Second term of a three-term introductory course. Emphasis will be on increasing communicative abilities. Course will focus on language functions such as making requests, describing others, and/or telling a short story. Grammar and vocabulary will also be emphasized throughout the course.

Prerequisites: ASL-101 with a C or better

ONL	ASL-102-01	333767			
	A. ELLIS	\$504.00	\$52.00	\$10.00	\$566.00
	One-time textbook purchase for ASL-101 & ASL-102.				

ASL-201 SECOND-YEAR AMERICAN SIGN LANGUAGE I, 4 CREDITS

Review and expansion of American Sign Language vocabulary and structure in order to perfect expressive skill. Emphasizes active communication in sign language.

Prerequisites: ASL-103 with a C or better

Course No	Course Title, Credits					Course No	Course Title, Credits				
	Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total		Section No	Crs Reg.	Days (M,T,W,Th,F,S,SU)	Time	Total
	Instructor		Tuition	Fee	Crs. Fee		Instructor		Tuition	Fee	Crs. Fee
REM	ASL-201-01	333769	TTH	10-11:50 AM		ONL LCT	SPN-101-02	334407			
	A. ELLIS	\$504.00	\$52.00	\$10.00	\$566.00		E. HERNANDEZ	\$504.00	\$52.00	\$10.00	\$566.00
	One-time textbook purchase for ASL-103 & ASL-201.						All materials provided first day of class.				
FR-101	FIRST-YEAR FRENCH I, 4 CREDITS					ONL LCT	SPN-101-03	334406			
	First 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.						V. SHORT	\$504.00	\$52.00	\$10.00	\$566.00
							All materials provided first day of class.				
OC LCT	FR-101-01	333984	TTH	10-11:50 AM		SPN-102	FIRST-YEAR SPANISH II, 4 CREDITS				
	E. HERNANDEZ	\$504.00	\$52.00	\$10.00	\$566.00		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.				
	All materials provided first day of class.						Prerequisites: SPN-101				
							Recommended Prerequisites: WRD-098 or placement in WR-121Z				
FR-201	SECOND-YEAR FRENCH I, 4 CREDITS					ONL	SPN-102-01	337751			
	The second year of academic French expands on first-year French in the review of essential grammar structures, the use of more advanced grammar, and cross-cultural discussion and analysis. Emphasis is on communication skills, stressing both oral proficiency and written expression.						V. SHORT	\$504.00	\$52.00	\$10.00	\$566.00
							All materials provided first day of class.				
OC LCT	FR-201-01	333986	TTH	1-2:50 PM		SPN-201	SECOND-YEAR SPANISH I, 4 CREDITS				
	E. HERNANDEZ	\$504.00	\$52.00	\$10.00	\$566.00		First 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.				
	All materials provided first day of class.						Prerequisites: SPN-103 or Student Petition				
FR-211	INTERMEDIATE FRENCH CONVERSATION, 3 CREDITS					ONL LCT	SPN-201-01	334410			
	First term of a three-term series in intermediate development of speaking and listening proficiency through creative activities such as discussions of excerpts from contemporary French-language media, presentations, games, role-plays, debates, pair and group work. This course is ideally suited as a language elective or for personal enrichment. Materials, topics and level of difficulty will parallel work in FR-201.						V. SHORT	\$504.00	\$52.00	\$10.00	\$566.00
							All materials provided first day of class.				
OC LCT	FR-211-01	333988	TTH	1-2:20 PM		WR-101	WORKPLACE WRITING, 4 CREDITS				
	E. HERNANDEZ	\$378.00	\$39.00	\$10.00	\$427.00		Students in this course learn and practice basic modes of technical writing, including summaries, process analysis, instructions, and reports.				
	All materials provided first day of class.						Prerequisites: WRD-098 or placement in WR-101 or WR-121Z				
GER-101	FIRST-YEAR GERMAN I, 4 CREDITS					OC LCT	WR-101-01	334418	MW	1-2:50 PM	
	First 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.						C. ZIMMERLY-BECK	\$504.00	\$52.00	\$19.00	\$575.00
							ONL LCT	WR-101-02	334419		
							P. CRUMRINE	\$504.00	\$52.00	\$19.00	\$575.00
OC LCT	GER-101-01	334094	MW	1-2:50 PM		WR-121Z	COMPOSITION I, 4 CREDITS				
	T. NIKOLOPOULOS	\$504.00	\$52.00	\$10.00	\$566.00		WR-121Z engages students in the study and practice of critical thinking, reading, and writing. The course focuses on analyzing and composing across varied rhetorical situations and in multiple genres. Students will apply key rhetorical concepts flexibly and collaboratively throughout their writing and inquiry processes.				
	No textbook required.						Prerequisites: WRD-098 or placement in WR-121Z				
SPN-101	FIRST-YEAR SPANISH I, 4 CREDITS					OC LCT	WR-121Z-01	334420	MW	10-11:50 AM	
	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.						C. BURNELL	\$504.00	\$52.00	\$19.00	\$575.00
							OC LCT	WR-121Z-02	334421	MW	1-2:50 PM
							C. BURNELL	\$504.00	\$52.00	\$19.00	\$575.00
							OC LCT	WR-121Z-03	334422	MW	3-4:50 PM
							C. ZIMMERLY-BECK	\$504.00	\$52.00	\$19.00	\$575.00
							OC LCT	WR-121Z-04	334423	TTH	10-11:50 AM
							J. BRYANT-TRERISE	\$504.00	\$52.00	\$19.00	\$575.00
							OC LCT	WR-121Z-05	334424	TTH	10-11:50 AM
							R. DAVIS	\$504.00	\$52.00	\$19.00	\$575.00
							OC LCT	WR-121Z-06	334425	TTH	1-2:50 PM
							TBA	\$504.00	\$52.00	\$19.00	\$575.00
							OC LCT	WR-121Z-07	334426	TTH	3-4:50 PM
							TBA	\$504.00	\$52.00	\$19.00	\$575.00
							OC HYB LCT	WR-121Z-08	334427	M	10-11:50 AM
							R. MURPHY	\$504.00	\$52.00	\$19.00	\$575.00

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	Instructor		Tuition	Fee	Crs. Fee			Instructor		Tuition	Fee	Crs. Fee	
OC HYB LCT	WR-121Z-09	334428	M		1-2:50 PM		ONL LCT	WR-122Z-10	334460				
	S. WARREN	\$504.00	\$52.00	\$19.00	\$575.00			C. BURNELL	\$504.00	\$52.00	\$19.00	\$575.00	
OC HYB LCT	WR-121Z-10	334429	M		3-4:50 PM		HAR HYB	WR-122Z-15	334461	W		6-7:50 PM	
	S. WARREN	\$504.00	\$52.00	\$19.00	\$575.00			M. SCHUMACHER	\$504.00	\$52.00	\$19.00	\$575.00	
OC HYB	WR-121Z-11	334430	T		8-9:50 AM		WR-124ES ESCRITURA DE ENSAYOS DE NIVEL UNIVERSITARIO EN ESPAÑOL, 4 CREDITS						
	TBA	\$504.00	\$52.00	\$19.00	\$575.00		Este curso ofrece una introducción al ensayo académico. El alumnado aprenderá un proceso de escritura y redacción: desde cómo hacer una «lluvia de ideas» para generar ideas hasta cómo corregir e editar un escrito. A la vez, se desarrollarán respuestas originales-en forma escrita-a reseñas y reportajes sobre temas controversiales y a los ensayos académicos difíciles. La clase enfatizará la alfabetización de la información, así como: cómo encontrar y evaluar materiales, recursos relevantes y obras originales; cómo integrarlos en una redacción académica y cómo citarlos.						
OC HYB	WR-121Z-12	334431	T		10-11:50 AM		Required: Los y las estudiantes deben leer y escribir a nivel universitario, en español, antes de comenzar el curso						
	R. MURPHY	\$504.00	\$52.00	\$19.00	\$575.00		Prerequisites: WRD-098ES o tener un nivel de evaluación de WR-124ES						
OC HYB LCT	WR-121Z-13	334432	T		1-2:50 PM		ONL LCT	WR-124ES-01	334463				
	S. NIZIOLEK	\$504.00	\$52.00	\$19.00	\$575.00			A. DEFRESE	\$504.00	\$52.00	\$19.00	\$575.00	
OC HYB LCT	WR-121Z-14	334433	W		1-2:50 PM		WR-127 SCHOLARSHIP ESSAY WRITING, 1 CREDIT						
	M. SCHUMACHER	\$504.00	\$52.00	\$19.00	\$575.00		Introduces scholarship resources and the application process. Examines and applies the concept of 'telling the story of me,' and drafting, revising, and editing a complete scholarship application essay.						
HAR LCT	WR-121Z-15	334434	TTH		10-11:50 AM		ONL LCT	WR-127-01	334464				
	TBA	\$504.00	\$52.00	\$19.00	\$575.00			S. NIZIOLEK	\$126.00	\$13.00	\$19.00	\$158.00	
HAR HYB	WR-121Z-16	337729	M		6-7:50 PM		Meets: 9/30-11/1.						
	M. SCHUMACHER	\$504.00	\$52.00	\$19.00	\$575.00		WR-128 INTRODUCTION TO APA STYLE & DOCUMENTATION, 1 CREDIT						
ONL LCT	WR-121Z-17	334435					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.						
	P. CRUMRINE	\$504.00	\$52.00	\$19.00	\$575.00		Prerequisites: WR-121Z with a C or better						
ONL LCT	WR-121Z-18	334436					ONL LCT	WR-128-01	334465				
	S. PESZNECKER	\$504.00	\$52.00	\$19.00	\$575.00			S. PESZNECKER	\$0.00	\$0.00	\$19.00	\$19.00	
ONL LCT	WR-121Z-19	334437					WR-140 INTRODUCTION TO WRITING CREATIVELY, 4 CREDITS						
	T. DODGE	\$504.00	\$52.00	\$19.00	\$575.00		Guides students through the discussion and practice of writing creatively in many genres and formats, primarily poetry, fiction, drama, and creative non-fiction in a workshop format. May also include screenwriting, digital story telling, film, and performance genres.						
ONL LCT	WR-121Z-20	334438					Recommended Prerequisites: WRD-098 or placement in WR-121Z						
	T. DODGE	\$504.00	\$52.00	\$19.00	\$575.00		OC HYB LCT	WR-140-01	334466	W		1-2:50 PM	
ONL LCT	WR-121Z-21	334439						S. NIZIOLEK	\$504.00	\$52.00	\$19.00	\$575.00	
	T. DODGE	\$504.00	\$52.00	\$19.00	\$575.00		WR-227Z TECHNICAL WRITING, 4 CREDITS						
ONL LCT	WR-121Z-22	334440					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.						
	R. DAVIS	\$504.00	\$52.00	\$19.00	\$575.00								
ONL LCT	WR-121Z-23	334441											
	R. DAVIS	\$504.00	\$52.00	\$19.00	\$575.00								
ONL LCT	WR-121Z-24	334442											
	N. ROSEVEAR	\$504.00	\$52.00	\$19.00	\$575.00								
ONL	WR-121Z-25	334443											
	N. ROSEVEAR	\$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	334451	MW		1-2:50 PM	
	J. BRYANT-TRERISE	\$504.00	\$52.00	\$19.00	\$575.00	
OC LCT	WR-122Z-02	334452	TTH		1-2:50 PM	
	TBA	\$504.00	\$52.00	\$19.00	\$575.00	
OC LCT	WR-122Z-03	334453	TTH		3-4:50 PM	
	J. BRYANT-TRERISE	\$504.00	\$52.00	\$19.00	\$575.00	
OC HYB	WR-122Z-04	334454	M		1-2:50 PM	
	R. MURPHY	\$504.00	\$52.00	\$19.00	\$575.00	
OC HYB	WR-122Z-05	334455	T		10-11:50 AM	
	S. NIZIOLEK	\$504.00	\$52.00	\$19.00	\$575.00	
OC HYB LCT	WR-122Z-06	334456	W		1-2:50 PM	
	L. ORMANDY	\$504.00	\$52.00	\$19.00	\$575.00	
ONL	WR-122Z-07	334457				
	P. CRUMRINE	\$504.00	\$52.00	\$19.00	\$575.00	
ONL LCT	WR-122Z-08	334458				
	R. MURPHY	\$504.00	\$52.00	\$19.00	\$575.00	
ONL LCT	WR-122Z-09	334459				
	S. WARREN	\$504.00	\$52.00	\$19.00	\$575.00	

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Prerequisites: WR-121Z with a C or better										
OC LCT	WR-227Z-01	334467	TTH					10-11:50 AM		
	TBA	\$504.00	\$52.00	\$19.00	\$575.00					
OC HYB LCT	WR-227Z-02	334468	W					3-4:50 PM		
	A. WICKERT	\$504.00	\$52.00	\$19.00	\$575.00					
ONL LCT	WR-227Z-03	334469								
	L. ORMANDY	\$504.00	\$52.00	\$19.00	\$575.00					
ONL LCT	WR-227Z-04	334470								
	C. ZIMMERLY-BECK	\$504.00	\$52.00	\$19.00	\$575.00					
ONL	WR-227Z-05	334471								
	J. MCALPINE	\$504.00	\$52.00	\$19.00	\$575.00					
HAR HYB	WR-227Z-15	334472	W					6-7:50 PM		
	L. ORMANDY	\$504.00	\$52.00	\$19.00	\$575.00					
WR-241	FICTION WRITING I, 4 CREDITS									
	Introduction to the theory, art and creative practice of fiction writing, with specific emphasis on short prose forms.									
	Prerequisites: WRD-098 or placement in WR-121Z									
OC HYB LCT	WR-241-01	334473	T					1-2:50 PM		
	N. ROSEVEAR	\$504.00	\$52.00	\$19.00	\$575.00					
WR-270	CREATIVE NONFICTION WRITING II: FOOD WRITING, 4 CREDITS									
	Learn to write uniquely and powerfully about food, from recipes to reviews to personal narrative. Bring the pen to the plate and vice versa, enriching your appreciation for sustenance and sentences at the same time.									
	Recommended Prerequisites: WRD-098 or placement in WR-121Z									
ONL LCT	WR-270-01	334475								
	N. ROSEVEAR	\$504.00	\$52.00	\$19.00	\$575.00					
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	334476	MW					10-11:50 AM		
	W. DAWKINS	\$504.00	\$52.00	\$19.00	\$575.00					
OC LCT	WRD-090-02	334478	TTH					1-2:50 PM		
	TBA	\$504.00	\$52.00	\$19.00	\$575.00					
ONL LCT	WRD-090-03	334480								
	A. WARREN	\$504.00	\$52.00	\$19.00	\$575.00					
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	334482	MW					1-2:50 PM		
	W. DAWKINS	\$504.00	\$52.00	\$19.00	\$575.00					
OC LCT	WRD-098-02	334484	TTH					10-11:50 AM		
	T. DONNELLY	\$504.00	\$52.00	\$19.00	\$575.00					
ONL LCT	WRD-098-03	334486								
	A. WARREN	\$504.00	\$52.00	\$19.00	\$575.00					
ONL LCT	WRD-098-04	334488								
	A. WICKERT	\$504.00	\$52.00	\$19.00	\$575.00					

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
ONL LCT	WRD-098-05	334490								
	J. DAVIS	\$504.00	\$52.00	\$19.00	\$575.00					
HAR LCT	WRD-098-15	334496	MW					10-11:50 AM		
	TBA	\$504.00	\$52.00	\$19.00	\$575.00					

WRD-098ES INTRODUCCIÓN A LA LECTURA Y ESCRITURA DE NIVEL UNIVERSITARIO 2, 4 CREDITS

Preparación para la escritura a nivel de cursos universitarios. El alumnado dialogará sobre una variedad de lecturas, en español, a nivel introductorio o pre-universitario, desarrollarán y perfeccionarán sus ensayos (máximo de tres páginas) por medio del proceso de revisión y múltiples bosquejos. Otros temas incluyen: tener confianza como lector, buscar y encontrar información, y citar las fuentes por medio de citas informales.

Prerequisites: Tener un nivel de evaluación de WRD-098ES

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
ONL ESPAÑOL	WRD-098ES-01	334498								
	A. DEFRESE	\$504.00	\$52.00	\$19.00	\$575.00					

XWR-0001 CHRYSALIS WOMEN WRITERS, 0 CREDIT

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

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
OC HYB LCT	XWR-0001-01	334505	W					12-1:50 PM		
	P. LICHEN	\$0.00	\$0.00	\$0.00	\$0.00					\$0.00

This workshop will be held via Zoom.

Zoology

Z-201 GENERAL ZOOLOGY, 4 CREDITS

A lab course offering cellular and molecular basis of animal life including genetics, embryology, evolution, systematics, and protozoan diversity.

Prerequisites: MTH-095 or placement in MTH-111Z
Corequisites: Z-201L
Recommended Prerequisites: WRD-098 or placement in WR-121Z

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
oc	Z-201-01	334392	MW					10:30 -11:50 AM		
	J. BOWN	\$504.00	\$52.00	\$55.00	\$611.00					

Corequisite: Take the following Z-201L-01.

Z-201L GENERAL ZOOLOGY LAB, 0 CREDIT

Lab course for Z-201
Corequisites: Z-201

Course No	Course Title, Credits	Section No	Instructor	Crs Reg.	Days (M,T,W,TH,F,S,SU)	Tuition	Fee	Time	Crs. Fee	Total
oc	Z-201L-01	334393	W					1-3:50 PM		
	J. BOWN	\$0.00	\$0.00	\$0.00	\$0.00					\$0.00

Corequisite: Take the following Z-201-01.

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Instructor Focus: Maria Fe Picar, Community Education Instructor



Maria comes from a professional dance background, having performed and taught throughout the San Francisco Bay Area. She has taught children through adults in her home-owned studio Ingleside Creative Arts, as well as in community centers, schools and

performing arts centers. She holds a Bachelor's Degree in Physical Education - Dance Emphasis and is a certified RYT teaching yoga and dance in-person and online. She also recently received her certification in meditation. Look for her classes at both the Milwaukie Community Center and the Pioneer Community Center.

What Maria's students are saying:

"She keeps us coming back!"

"Maria is very warm and welcoming."

"Definitely would recommend this class to others."

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.wlwk12.or.us/domain/3726

Please register for classes directly through the Community Education Partner hosting the class you would like to attend.

Many partners accept online registrations on their websites. Please contact the partner if you have additional questions regarding your classes or their policy regarding refunds.



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.



ACADEMIC REGULATIONS

Absences/Attendance

- You must be officially registered to attend class.
- Be sure to notify your instructor if you can't make it to your first day of class. If you don't, you may lose your seat to a student on the wait list.
- **If you stop going to class and you don't officially drop the classes from your schedule, you will be held academically and financially responsible.**
- If the college is open on a religious holiday, you may be excused through prior arrangement with your instructors.
- If you attend a college-sponsored field trip, intercollegiate function or other event, you may be excused through prior arrangement with your instructors.
- **Financial aid programs have specific attendance requirements. Contact the Financial Aid Office for more information at finaid@clackamas.edu or www.clackamas.edu.**

Academic Standing

If you are a degree/certificate student taking 6 or more credits, you are required to maintain a 2.0 GPA and complete at least 50% of your attempted credits in order to remain in good academic standing.

Active Military Duty

If you are called up for active military duty, and wish to withdraw from classes, you will be held harmless with as much as possible regard to financial and academic responsibility.

- You will be asked to officially withdraw from classes by web, fax, mail, or in person.
- Students who have already shipped out or are unable to drop classes should contact Enrollment Services: 503-594-6074 or registrar@clackamas.edu.
- You will be asked to submit a copy of your orders along with a request for a refund/credit to Enrollment Services.
- Requests to be held harmless financially and academically for a prior term enrollment must be submitted directly to the Registrar at 503-594-3370 or chris.sweet@clackamas.edu.

Adding and Dropping Classes

- You are required to obtain instructor permission (signature) once classes begin.
- You must officially drop courses you have registered for if you decide to stop going to class. **Ceasing to attend class does not constitute official withdrawal! You will be held responsible academically and financially if you do not officially drop your courses. Official withdrawal is via myClackamas or in person.**

Administrative Withdraw

- If you don't attend your class during the first two weeks of the class, instructors **MAY** drop you but **ARE NOT REQUIRED** to do so. This is called administrative withdrawal.
- If an instructor does an administrative withdrawal, you may be granted a full refund of charges for the class.
- An instructor may administratively withdraw you from a course if you are unable to demonstrate fulfillment of the stated class prerequisite or co-requisite requirement.

- If you are utilizing financial aid or veterans benefits, you may owe a repayment. Please check with these offices for additional information regarding your enrollment status and entitlement to benefits.
- If you are administratively withdrawn from a course, you will be notified by Enrollment Services.

Audit

An audit allows you to attend class without responsibility for a grade. Audit carries no credit, doesn't contribute toward full-time status and does not meet full-time status required for veterans, Social Security, financial aid or athletic eligibility. All other college policies apply including registration, tuition payment, refunds, and attendance. If you decide to change your status from audit to credit or credit to audit, notify your instructor prior to the end of the sixth week of the term.

If you are a financial aid student, please notify the Financial Aid Office if you change from a credit to an audit or receive an audit grade. You may be required to pay back funds. Audit classes do not qualify for financial aid.

Variable Credit

Some courses are eligible for variable credit. These courses are noted in the Schedule of Classes with a "V" in the credit column. This option allows you to pursue an individualized learning program. You must register for the number of credits you expect to earn in that term as determined with your instructor. Changes to variable credit must be processed through registration by the end of the 10th week of the term.

Wait List

Some CCC classes utilize a wait list option. If the class you want to register for is full and it has a wait list:

- Add your name to the wait list via myClackamas or in person.
- When a spot opens up, you will receive an email in your @student.clackamas.edu email. You will have 48 hours to respond to the email.
- To add the class, go to "Manage my wait list" within myClackamas to register.
- You are responsible academically and financially if you no longer want to be in the class and don't drop it.

The following conditions may affect your eligibility for wait list placement:

- Wait list capacity has been met.
- There is a "hold" on your student record that restricts registration.
- There are course restrictions in place such as "instructor consent."
- You are already enrolled in another section of the same course.
- There is a time conflict with the course you have selected.
- You have reached the maximum number of credits allowed (18) without additional authorization.
- Class has already begun.

FERPA

Directory information about your student record may be released without your permission under the Family Educational Rights & Privacy Act (FERPA). CCC will release the following directory information:

- Full name
- Enrollment status
- Enrollment dates
- Verification of certificate, degree, or honors and awards
- Residency status
- Major/program
- Athletic participation

No other information will be released without your permission. If you have questions regarding FERPA, please contact Enrollment Services, 503-594-6074 or go to our website: www.clackamas.edu



Student Right to Know and Other Notification Requirements

Clackamas Community College information regarding academic programs, student completion/graduation rates, financial assistance, athletics, institutional financial support, privacy rights (FERPA), campus security, crime statistics and other Student Right to Know items may be obtained by viewing our annual college catalog or by going to www.clackamas.edu. Printed copies of this information may also be obtained by contacting Enrollment Services at 503-594-6074 or registrar@clackamas.edu.



Clackamas Community College is accredited by the Northwest Commission on Colleges and Universities.

Accreditation of an institution of higher education by the Northwest Commission on Colleges and Universities indicates that it meets or exceeds criteria for the assessment of institutional quality evaluated through a peer review process. An accredited college or university is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the Northwest Commission on Colleges and Universities is not partial but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding an institution's accredited status by the Northwest Commission on Colleges and Universities should be directed to the administrative staff of the institution. Individuals may also contact:

Northwest Commission on Colleges and Universities
8060 165th Avenue N.E., Suite 100
Redmond, WA 98052
(425) 558-4224
www.nwccu.org

HOURS CCC Oregon City Campus

ALL CAMPUSES CLOSED

Nov. 11, Veterans Day, Nov. 28 & 29, Thanksgiving

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

Sept. 30-Dec. 14 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://clackamascbookstore.com> for the current days and times.

Textbook Buyback & Rental Check-In

Rental Return Due Date - Dec. 6, 2024

PAULING CENTER

Workforce Development Services

Sept. 30-Dec. 14 M-F 8 a.m.-5 p.m.

RANDALL HALL

Fitness Center

(Hours vary, please check door for posted hours)

STREETER HALL

Open Computing Lab

Limited on-campus computers available for student use, see website for specific days and times.

www.clackamas.edu/tutoring/

WACHENO WELCOME CENTER

Academic Advising & Career Services

Office Hours M/T/Th 9 a.m.-4 p.m.

W 10 a.m.-4 p.m.

Remote working hours M-F 8 a.m.-5 p.m.

Counseling Services

Telehealth and in-person appointments available, contact counseling@clackamas.edu or call 503-594-3176.

Office Hours T,W,Th 9 a.m.-4 p.m.

Remote working hours T,W,Th 8 a.m.-5 p.m.

Disability Resource Center

Office Hours M-F 9 a.m.-4 p.m.

Remote working hours M-Th 8 a.m.-5 p.m.

Enrollment Services & Graduation Services

Office Hours M-F 9 a.m.-4 p.m.

Remote working hours M-F 8 a.m.-5 p.m.

Financial Aid Resource Lab

Available M-F 10 a.m.-1 p.m. or by appt.

Drop-In Zoom hours: MW 11 a.m.-2 p.m.

Financial Aid & Scholarships

Office Hours M-F 9 a.m.-4 p.m.

Remote working hours M-Th 8 a.m.-5 p.m.

Student Life & Leadership

Office Hours M-F 9 a.m.-4 p.m.

Remote working hours M-Th 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-F 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 BOOKSTORES

Oregon City campus – in McLoughlin Hall, ground floor
503-594-6500

IN-STORE CUSTOMERS

Payment types:

- Cash
- Debit / credit
- Financial Aid – 3rd Party Account or Student Account

ONLINE ORDERS can be shipped out (for a fee) or held for customer pick-up. Credit card payment required at time of order. Email notifications will be sent when order is shipped or is ready to be picked up.

Fall 2024 dates to remember:

Textbook sales begin online and in-store – Sept. 3, 2024
Last day for textbook refunds – Oct. 4 without drop;
Oct. 18 with proof of drop
Rental books due back – December 6, 2024

For campus maps, store hours, shipping costs, refund/returns policies and ordering details, see clackamascbookstore.com or call the bookstore at 503-594-6500. We will be happy to answer your questions personally!

Low-Cost Texts

Low-cost text (LCT) course sections use textbooks and/or other course materials that have a minimal cost. The total cost of textbooks and/or materials* in every low-cost course will be \$40 or less. Identify CCC's low-cost courses by looking for the **LCT** icon.

**Included in the cost calculations are: required textbooks and other text-based materials, workbooks, lab manuals, online homework software (e.g. mymathlab), and codes or publisher-provided curricular materials for students. Printing costs are not included, unless a printed version is required for the course. Excluded from the cost calculations are: art supplies, calculators, software, course and student fees or equipment, and optional costs.*

DISCLAIMER: Clackamas Community College makes every effort that the low-cost sections identified in this printed schedule are accurate at the time of publication. However, review the online schedule or contact the course instructor for the most up-to-date information on textbook and material costs.

College Closure Information



ANNOUNCEMENTS

In the event of hazardous weather or other emergencies, the following will carry school schedule changes and college closure information:

- Clackamas website, www.clackamas.edu
- Local radio and television broadcasts and websites
- Recorded phone message on the college's main number: 503-594-6000
- Facebook, [Facebook.com/ClackamasCommCollege](https://www.facebook.com/ClackamasCommCollege)
- Twitter, @ClackCollege

COLLEGE CLOSURE LOCATIONS

In the event that the college is closed due to adverse weather conditions, all college campuses and centers will close. In the event of a non-weather related emergency closure (e.g., loss of electricity), only the affected campus will close.

COLLEGE CLOSURE TIMES

Emergency closures due to hazardous weather or other emergencies:

Day Closure – Offices are closed and classes are canceled unless exceptions are announced. Shuttle service is also canceled.

Late Opening – The college will open at 10 a.m. All classes, events and activities on all CCC campuses are canceled until 10 a.m.

Early Closure – All classes, activities and events starting at or after 4 p.m. will be canceled on all campuses. Campuses will remain open until 5 p.m.

CLOSURES DURING FINAL WEEK

One day closure during final week:

Monday, Tuesday and/or Wednesday daytime finals will be rescheduled for Thursday during the same time period as originally scheduled.

Second day closure during final week:

Finals will be rescheduled for Friday during the same time period as originally scheduled.

Evening closure during final week:

Finals will be rescheduled for Friday evening during the same time period as originally scheduled.

Note: These are general guidelines. Exceptions may occur.

EMERGENCY NOTIFICATIONS

CCC students are automatically enrolled in Clackamas Community College's phone, text message and email emergency notification system – Rave Alert.

The Rave Alert system will NOT charge fees, however standard or other messaging charges apply depending on wireless carrier plan and subscription details.

FACULTY ADVISORS

Undecided or need more information
about your program of study?

Faculty advisors have the answers.

PROGRAM	ADVISOR	PHONE	ROOM	EMAIL
Accounting	Joan San-Claire	503-594-3013	S124	joan.san-claire@clackamas.edu
Administrative Assistant/Professional	Beverly Forney	503-594-3115	S129	beverlyf@clackamas.edu
Adult High School Diploma	Lisa Nielson	503-594-3401	D144	lisan@clackamas.edu
Anthropology	Keely Baca	503-594-3409	M223	keely.baca@clackamas.edu
Apprenticeship	Katelyn Karch	503-594-6201	T128	kkarch@clackamas.edu
Arboriculture	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	S126	richa@clackamas.edu
Computer Science: Application Support & Web Design	Debra Carino	503-594-3170	S125	dcarino@clackamas.edu
Computer Science: Network Administration	Rick Carino	503-594-3167	S179	rcarino@clackamas.edu
Computer Science: Transfer	Jen Miller	503-594-3138	S127	jen.miller@clackamas.edu
Criminal Justice/Corrections	Joanna Crawford	503-594-6229	HW315	joanna.crawford@clackamas.edu
Customized Training & Development Services	Staff	503-594-3200	P104	training@clackamas.edu
Dental Assistant	Kari Hiatt	503-594-0674	H385	kari.hiatt@clackamas.edu
Digital Media Communications	Nora Brodnicki	503-594-3036	AC106	norab@clackamas.edu
Early Childhood Education	Dawn Hendricks	503-594-6158	F116	dawn.hendricks@clackamas.edu
Economics	Derek Lougee	503-594-3408	M213	derek.lougee@clackamas.edu
Education	Laurette Scott	503-594-3840	F115	laurette@clackamas.edu
Educación Infantil y Estudios Familiares	Ada Echevarria	503-594-1828	F112	ada.echevarria@clackamas.edu
Electronics and Microelectronics	Mike Mattson	503-594-3322	I217I	mattsonm@clackamas.edu
Emergency Medical Technology	Tana Sawzak	503-594-6025	H382	tanasa@clackamas.edu
Engineering	Eric Lee	503-594-6163	DJ212	elee@clackamas.edu
Engineering	Matt LaForce	503-594-3148	DJ210	laforce@clackamas.edu
English	Amanda Coffey	503-594-3257	RR242	amandac@clackamas.edu
English for Speakers of Other Languages	Laura Joyce	503-594-3718	D146	lauraj@clackamas.edu
Environmental Safety and Health	Mike Mattson	503-594-3322	I217I	mattsonm@clackamas.edu
Fire Science	Jordan Gulley	503-594-3683	C141	wildlandfire@clackamas.edu
GED/ABE	Lisa Nielson	503-594-3401	D144	lisan@clackamas.edu
Geography	Derek Lougee	503-594-3408	M213	derek.lougee@clackamas.edu
Gerontology	Yvonne Smith	503-594-3207	HW315	yvonne@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	C124	april.chastain@clackamas.edu
Human Resource Management	Michael Moiso	503-594-3770	S128	mmoiso@clackamas.edu
Human Services	Yvonne Smith	503-594-3207	F119	yvonne@clackamas.edu
Humanities	Derek Lougee	503-594-3408	M213	derek.lougee@clackamas.edu
Humanities	Amanda Coffey	503-594-3257	RR237	amandac@clackamas.edu
Industrial Technology	Mike Mattson	503-594-3322	I217I	mattsonm@clackamas.edu
Journalism	Melissa Jones	503-594-3261	RR132	melissaj@clackamas.edu
Landscape	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	Carol Dodson	503-594-0654	H280	carold@clackamas.edu
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	martineau@clackamas.edu
Political Science	Derek Lougee	503-594-3408	M213	derek.lougee@clackamas.edu
Pre-Professional (medical, dental, pharmacy)	Eden Francis	503-594-3352	P124k	edenf@clackamas.edu
Project Management	Frank Corona	503-594-6498	S130	francisco.corona@clackamas.edu
Psychology	Jessica Kissler	503-594-6625	M210	jessica.kissler@clackamas.edu
Religion	Derek Lougee	503-594-3408	M213	derek.lougee@clackamas.edu
Reading/Study Skills	Lisa Nielson	503-594-3401	D144	lisan@clackamas.edu
Renewable Energy	Mike Mattson	503-594-3322	I217I	mattsonm@clackamas.edu
Retail Management	Beverly Forney	503-594-3115	S129	beverlyf@clackamas.edu
Science	Kelly Mercer	503-594-6154	S102	kelly.mercer@clackamas.edu
Search and Rescue	Matt Adams	503-594-3677	T125	matt.adams@clackamas.edu
Skills Development	Lisa Nielson	503-594-3401	D144	lisan@clackamas.edu
Small Business Development Center	Rob Campbell	503-594-0733	HW160E	bizcenter@clackamas.edu
Social Science	Derek Lougee	503-594-3408	M213	derek.lougee@clackamas.edu
Sociology	Erich Pfeifer	503-594-3802	M225	erichp@clackamas.edu
Theatre Arts	Chris Whitten	503-594-3153	N152	cwhitten@clackamas.edu
Undecided Major of Study	Student Support Services	503-594-3475	WC	advising@clackamas.edu
Uncrewed Aircraft Systems	Angela Armen	503-594-3678	M223	angela.armen@clackamas.edu
Water & Environmental Technology	Matt LaForce	503-594-3148	DJ210	laforce@clackamas.edu
Water & Environmental Technology	Jim Nurmi	503-594-3813	DJ211	jamesn@clackamas.edu
Welding	Dustin Bates	503-594-3973	B259	dustinb@clackamas.edu
Women's Studies	Derek Lougee	503-594-3408	M213	derek.lougee@clackamas.edu
World Languages	Ernesto Hernandez	503-594-3710	M245	ernesto.hernandez@clackamas.edu

WHERE TO CALL

CCC'S MAIN PHONE NUMBER IS 503-594-6000.

BLDG.*	DEPARTMENT/OFFICE	PHONE
ABE/GED		
D	Oregon City	503-594-3027
H	Harmony	503-594-3027
D	Adult High School Diploma – Oregon City	503-594-3027
Academic Advising		
WC	Oregon City	503-594-3475
H	Harmony	503-594-0623
W	Wilsonville	503-594-0959
Bookstore		
M	Bookstore – Oregon City	503-594-6500
Testing/Assessment Center		
WC	Oregon City	503-594-3283
H	Harmony	503-594-0636
W	Wilsonville	503-594-0940
B	Account Receivable	503-594-6068
WC	Admissions & Recruitment/Welcome Center	503-594-3284
WC	Advanced College Credit	503-594-3161
T	Apprenticeship	503-594-3031
C	Arboriculture	503-594-3292
AC	Art	503-594-3034
WC	Associated Student Government	503-594-3040
R	Athletics	503-594-3043
B	Automotive	503-594-3047
S	Business	503-594-3071
HW	Business Development Center	503-594-0738
B	Business Office	503-594-3085
WC	Cafeteria	503-594-6091
WC	Campus Tours	503-594-6249
WC	Career Center	503-594-6001
I	Career Technical Education	503-594-3441
F	Child Care Center	503-657-9795
	Child Care Info & Referral	503-253-5000
P	The Clackamas Print Newspaper	503-594-3261
M	College Safety Office	503-594-6650
N	Communication Studies	503-594-6489
H	Community Education	503-594-0627
	Community Garden	503-594-3040
D	Computer Lab (Academic)	503-594-6632
S	Computer Lab (Open)	503-594-6632
S	Computer Science	503-594-3071
WC	Cooperative Work Experience	503-594-3511
D	Cougar Connect Desk	503-594-6632
WC	Counseling	503-594-3176
HW	Criminal Justice/Corrections	503-594-3203
P	Customized Training & Development	503-594-3200
AC	Digital Media Communications	503-594-3034
WC	Disability Resource Center	503-594-6357
F	Education and Early Childhood Education	503-594-3203
I	Electronics & Microelectronics	503-594-3318
T	Emergency Management	503-594-3539
DJ	Engineering	503-594-3345

BLDG.*	DEPARTMENT/OFFICE	PHONE
RR	English	503-594-3254
D	English for Speakers of Other Languages	503-594-3234
WC	Enrollment Services	503-594-6074
ELC	Environmental Learning Center	503-594-3306
B	Environmental Safety & Health	503-594-3322
G	Facility Scheduling-Oregon City	503-594-3308
H	Facility Scheduling-Harmony	503-594-0950
W	Facility Scheduling-Wilsonville	503-594-0970
WC	Financial Aid and Scholarship Office	503-594-6082
T	Fire Science (Wildland Fire)	503-594-3539
HW	Gerontology	503-594-3203
T	GIS	503-594-6495
WC	Graduation Services	503-594-6651
R	Gym	503-594-3043
H	Harmony Campus Registration/Information	503-594-0620
H	Health Sciences	503-594-0650
WC	High School Connections	503-594-3161
C	Horticulture	503-594-3292
B	Human Resources/Employment Opportunity	503-594-3458
F	Human Services	503-594-3203
I	Industrial Technology	503-594-3318
B	Instructional Media Services	503-594-3500
C	Landscape	503-594-3292
D	Learning Center	503-594-6191
D	Library - Circulation	503-594-6323
D	Library - Reference	503-594-6042
WC	Life & Career Options	503-594-3176
S	Math	503-594-3395
D	Moodle Help	503-594-6632
N	Music	503-594-3337
H	Nursing	503-594-0650
WC	Office of Education Partnerships	503-594-3161
C	Organic Farming	503-594-3292
S	Online Learning & Educational Technology	503-594-6618
P	Pauling Center Gallery	503-594-3034
R	Physical Education	503-594-3271
RR	President's Office	503-594-3002
WC	Registration and Records	503-594-6074
I	Renewable Energy Technology	503-594-3318
DJ	Science	503-594-3345
D	Skills Development	503-594-3233
M	Social Science	503-594-3403
WC	Student Life & Leadership	503-594-3040
WC	Student Support Services	503-594-3475
N	Theater/Performing Arts	503-594-3153
D	Tutoring Services	503-594-6191
WC	Veterans Educational Benefits	503-594-3438
WC	Veterans Education & Training Center	503-594-3438
RR	Vice President, College Services	503-594-3010
RR	Vice President, Instructional & Student Services	503-594-3020
DJ	Water & Environmental Technology	503-594-3345
T	Welding	503-594-3046
W	Wilsonville Registration/Information	503-594-0940
P	Workforce Development Services	503-594-6246
M	World Languages	503-594-3403
D	Writing Center	503-594-6275

* Find building code key on the campus map on the back cover of this schedule.

COLLEGE SAFETY

In an emergency or life-threatening situation, dial **911** from any phone.
College Safety Office, ext. **6234** or **6650** or call **971-563-0101**.



SERVICES FOR STUDENTS



We've got you covered.

The Student Life & Leadership Office in Room 160 of the Wacheno Welcome Center offers lots of services to help you.

Free Food Pantry: A free pantry that offers food and toiletries for students. Donations accepted! For more information, visit our website: <https://www.clackamas.edu/campus-life/campuses-buildings-hours/free-food-pantry>.

Grants: There are grants available for child care, textbooks, fees, transportation and veterans gas cards and course materials. Grants are awarded each term to students who have demonstrated need. Fill out an application online at www.clackamas.edu/asg/grants.

Clubs: Do you have a special interest? Want to meet new people? CCC offers many clubs for students. Find out more in Student Life & Leadership.

Lost & Found: Located in the Student Government office in WC 160.

Fax & Phone: Fax service is available to students in the Student Life Office. There is also a phone you can use, free of charge, in the Wacheno Welcome Center.

Register to Vote: It's simple and fast. Voter registration links for Oregon and Washington available on the Student Government webpage: www.clackamas.edu/ASG



TRANSPORTATION OPTIONS

Save money on your CCC commute!

Clackamas Community College connects students with a variety of transportation resources including fare assistance, ClackCo free shuttle service, carpooling matching, and multiple bus options.

The latest information and additional details can be found at www.clackamas.edu/transportation.

CLACKAMAS COUNTY CONNECTS FREE SHUTTLES

Free shuttles in Oregon City, Clackamas Town Center/Harmony, Clackamas Industrial Area, and Estacada. Shuttle routes can be found at <https://www.clackamas.us/h3s/connects-shuttle>

CARPOOL MATCHING SERVICE

Find a carpool partner at GetThereOregon.org. Sign up using your @student.clackamas.edu email address.

PUBLIC TRANSPORTATION

Clackamas Community College is serviced by a number of bus lines. Plan your trip on Google Maps.

NEAR CLACKAMAS TOWN CENTER?

Ride the CCC Xpress or Clackamas Industrial Area Shuttles. Plan your route at rideclackamas.org.



DRIVE?

Find a carpool partner at GetThereOregon.org.



RIDE THE BUS?

CCC has partnered with TriMet to provide reduced or free TriMet fares. Email transportation@clackamas.edu or go to the Wacheno Welcome Center for more info.



#ClackCo

CONNECTS

CCC Xpress

Southbound

A	Clackamas Town Center	5:55	7:15	8:35	9:55	11:55	1:15	2:35	3:55	5:55	7:15
B	CCC Harmony Campus	6:05	7:25	8:45	10:05	12:05	1:25	2:45	4:05	6:05	7:25
C	Oregon City Transit Center	6:25	7:45	9:05	10:25	12:25	1:45	3:05	4:25	6:25	7:45
D	Clairmont Dr. CCC Campus	6:40	8:00	9:20	10:40	12:40	2:00	3:20	4:40	6:40	8:00

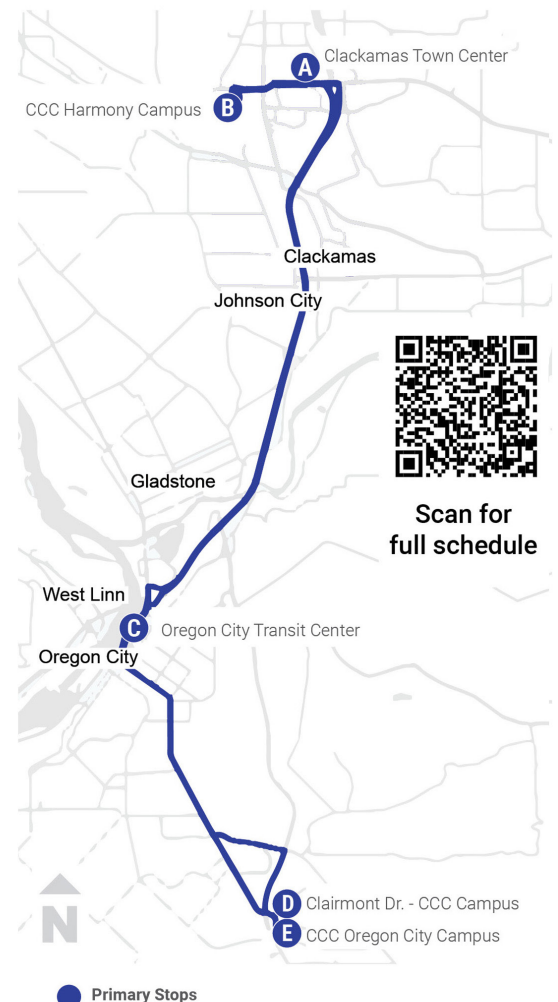
Northbound

E	CCC Oregon City Campus	6:45	8:05	9:25	10:45	12:45	2:05	3:25	4:45	6:45	8:05
B	CCC Harmony Campus	7:00	8:20	9:40	11:00	1:00	2:20	3:40	5:00	7:00	8:20
A	Clackamas Town Center	7:10	8:30	9:50	11:10	1:10	2:30	3:50	5:10	7:10	8:30

The CCC Xpress Shuttle is a **free** "deviated fix-route" service. Can't make it to the main bus stop or route? **Call 24 hours in advance** to make arrangements and check availability to be picked up or dropped off within 3/4 mile from the route or in the deviation zone. You may also signal/flag the bus to get on or off the bus in-between stops.

The CCC Xpress Shuttle operates 7 days a week. The Clackamas Industrial Area Shuttle does not operate on New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, or Christmas Day.

Schedule Times in **Bold** = PM





Clackamas Community College OREGON CITY CAMPUS

Having difficulty finding parking?
Although it may be tempting to park in no-parking or handicapped spaces, parking citations are issued and vehicles are subject to towing and storage fees.
Students with disabilities should pick up a state application form from the Department of Motor Vehicles.



BUILDING CODES and SERVICES

Art Center (AC)

Barlow Hall (B)

- Human Resources

Clairmont Hall (C)

DeJardin Hall (DJ)

Dye Learning Resource Center (D)

- Academic Computer Lab
- Library
- Moodle Help
- Tutoring

Environmental Learning Center (ELC)

Family Resource Center (F)

- Child Development Center

Gregory Forum (G)

Holden Industrial Technology Center (I)

Lewelling (L)

- Campus Services
- Shipping & Receiving

McLoughlin Hall (M)

- Bookstore
- College Safety

Niemeyer Center (N)

- Alexander Art Gallery
- Osterman Theatre

Pauling Center (P)

- Connections with Business and Industry
- Workforce Services

Randall Hall (R)

- Athletics Center

Roger Rook Hall (RR)

- Foundation
- President's Office

Streeter Hall (S)

- Online Learning & Educational Technology

Training Center (T)

Wacheno Welcome Center (WC)

- Admissions Center
- Advising
- Career Services
- Cougar Café
- Disability Resource Center
- Education Partnerships
- Financial Aid
- Multicultural Center
- Registration/Records
- Student Accounts
- Student Government
- Testing Center
- VET Center

CCC CAMPUS SITES

CCC at Harmony Community Campus

7738 SE Harmony Road
Milwaukie, OR 97222

CCC Oregon City

19600 Molalla Ave.
Oregon City, OR 97045

CCC Wilsonville Campus

29353 SW Town Center Loop E
Wilsonville, OR 97070