

# PROMISING CAREERS IN EMERGENCY RESPONSE AND OPERATIONS

**Klamath Community College  
2025 Winter**

**Academic Course Schedule  
Winter Term starts Jan 6**

**Emergency Response and  
Operations page 2**

[klamathcc.edu](http://klamathcc.edu)

*Photo by Caleb Herrera/KCC*



# EMERGENCY RESPONSE AND OPERATIONS



## What will I learn in the Emergency Response and Operations program?

The program develops education, skills, and techniques for planning, response, and mitigation for various emergency situations within the student's specific discipline, with emphasis on effective response and operations.

There are four emphases within KCC's ERO program:

- Emergency Medical Technician (EMT)
- Structural Fire Science
- Wildland Fire Science
- Criminal Justice

## Why choose an emphasis?

Each emphasis in the program requires a different combination of classes. You can view the curriculum map for each emphasis online at [www.klamathcc.edu/ero](http://www.klamathcc.edu/ero).

## Do I have to earn an associate degree?

No. KCC also offers one-year and less-than-one-year certificates in each emphasis. These certificates are perfect for those who want to brush up on their skills or gain new ones to advance in their current career.

The Emergency Medical Technician course abides by the Oregon State and National Registry of Emergency Medical Technicians (NREMT) curriculum. This course has over 200 hours of classroom instruction that includes lecture, group projects, discussions, hands-on practice, simulations, and scenarios. In addition to the classroom, students will also need to complete at least 16 hours' worth of clinical and field internships with licensed professionals currently working in the field.

Students must have a cumulative score of at least 70% in order to be cleared to test for both the state and national exams (written and practical) to receive their EMT licensure and certification for both the State of Oregon and the NREMT.

The Emergency Medical Technician program abides by the Oregon State and National Registry of Emergency Medical Technicians (NREMT) curriculum.



# Welcome! ¡Bienvenidos!

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**KCC Administration**

**Registration**

**Calendar, Tuition & Fees**

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**Courses A-Z**

*Use these tools to connect with a Student Success Advisor!*

New to  
**KCC?**

register or apply  
TODAY online

Skip the  
**LINE!**

Make an Advising  
Appointment NOW!



Download the  
QLess App



Text 'klamathcc' to:  
541-612-3482



Use the Kiosk in  
Founders Hall



Website:  
[kiosk.us1.qless.com/kiosk/app/home/21243](http://kiosk.us1.qless.com/kiosk/app/home/21243)

KCC Mission

Klamath Community College provides accessible, quality education and services in response to the diverse needs of the student, business, and community.

The college supports student success in workforce training, academic transfer, foundational skills development, and community education.

Accreditation

Klamath Community College is accredited by the Northwest Commission on Colleges and Universities.

Equal Opportunity Policy

It shall be the policy of the Klamath Community College District to affirm the rights of all individuals to equal education, activities, facilities, and employment without regard to age, sex, disability, national origin, race, marital status, religion, or sexual orientation in accordance with federal and state laws. Klamath Community College complies with Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972, and Section 504 of the Rehabilitation Act of 1973, and Title II of the Americans with Disabilities Act of 1990, and any amendments thereto.

Inquiries or grievances concerning the application of these laws and regulations to the College may be directed to Klamath Community College's Executive Director of Human Resources and General Counsel at 7390 South 6th St., Klamath Falls, OR 97603 or at 541-882-3521 or to the Office of Civil Rights, U.S. Department of Education, 915 Second Ave. Room 3310, Seattle, WA 98174-1099.

Accommodations

If a person with a disability needs assistance in order to attend or participate in a college event or meeting, please notify accessibility services at 541-882-3521 within three days of the meeting.



A note from a community partner

Partnership between KCC, Fire District 1 is key

By Brent Knutson,  
Division Chief — Training, Klamath County Fire District 1



Klamath Community College and Klamath County Fire District 1 (KCFD1) have a longstanding relationship for training new firefighters and keeping present firefighters current with their skill requirements.

The partnership — which has been growing over many years — is paying off in many ways.

In years past, approximately 60-70% of people testing for a position with KCFD1 were not local. This year, that trend was reversed. The majority of KCFD1's current hiring lists are now comprised of Klamath County residents.

The ability to attract local individuals into these positions improves KCFD1's retention efforts and creates a succession path for KCC students.

Further, KCC, in partnership with Rogue Community College, now offers the highly sought after Paramedic certificate — the highest level of EMT service. KCFD1 hired two Paramedics from last year's class. They just completed probation and they have been a great addition to Klamath County Fire District 1. This year, three students are in the program.

Then there is the new State Firefighter Apprenticeship Program in partnership with KCC. Much like the trades apprenticeship, students work for Klamath County Fire District 1 for up to two years to earn their certificates to become a firefighter. Additionally, the Apprentice Firefighters are enrolled in KCC courses including math, writing, speech, fire code and ordinances and building construction. This relationship has blossomed between the school and the fire district.

Generally, there have been three firefighting jobs open for every 80 applicants. Today, we have seven openings for about every 30 applicants. Much of the reason for that is that students are gravitating to other trades. Firefighting is dangerous work, constant work and we train hard. Safety is our number one concern and that is drilled into the students at KCC and personnel at Klamath County Fire District 1.

The staff at KCC is what really makes this partnership work. Program Lead for Structure Fire Training Gary Denney, Wildland Fire Program Coordinator Preston Hundley and Director of Apprenticeships Mark Griffith have brought all the parties together to create a stellar program. Having a central location for training — such as a fire tower — on the KCC campus is a great benefit to the community and there are plans to expand it. We use the facility quite a bit and the partnership allows us to easily schedule training for firefighting, EMS, EMTs, rescues, and HAZMAT (Hazardous materials). This is a huge benefit to our fire district.

It is rewarding to see KCC's staff putting their heart and soul into training the next generation of firefighters. We couldn't do that without the partnership with KCC.

Much thanks.

Brent Knutson

KCC Administration

KCC Board of Education

- Zone 1: Kate Marquez
- Zone 2: Kenneth DeGrans
- Zone 3: Misty Buckley
- Zone 4: Dave Jensen
- Zone 5: Linda Dill
- Zone 6: Raymond Holliday
- Zone 7: Richard Harrington

Student Board Member

(non-voting)  
Jacob Gonzales  
ASKCC President



Dr. Roberto Gutierrez  
President



Jamie Jennings  
VP of Academic Affairs



Denise Reid  
VP of Administrative Services



Gail Schull  
VP of Student Affairs



Charles Massie  
VP of External Programs



Josh Guest  
Executive Director of Human Resources and General Counsel

Registering at KCC Has Never Been Easier!

New students start here

1

Step 1 - Complete a KCC Application for Admission

Available online at [www.klamathcc.edu/admissions](http://www.klamathcc.edu/admissions) or call 541-882-3521.

2

Step 2 - Apply for Financial Aid

Students who wish to receive federal financial aid should apply at [studentaid.gov/fafsa](http://studentaid.gov/fafsa). Apply as early as possible.

3

Step 3 - Meet with an Advisor

Meet with KCC Student Services online or in person to determine if you need a placement test, and to register for classes inside Founders Hall or call 541-882-3521.

4

Step 4 - Purchase textbooks

Textbooks may be purchased at the KCC Bookstore in Founders Hall and at [bookstore.klamathcc.edu](http://bookstore.klamathcc.edu). If financial aid is complete, students can charge books to their student account at the bookstore. For more information, please visit [bookstore.klamathcc.edu](http://bookstore.klamathcc.edu) or call 541-880-2345.

Current students start here

1

Step 1 - Meet with your academic advisor

Students will need to receive registration clearance to be able to register for classes.

2

Step 2 - Register for classes

Save time by using web registration on [mykcc.klamathcc.edu](http://mykcc.klamathcc.edu).

3

Step 3 - File a FAFSA On the Web

Students must file a Free Application for Federal Student Aid (FAFSA) every year for the upcoming academic year (summer-spring terms) if they wish to receive financial aid. Check your online account to make sure everything is ready for the upcoming term.

4

Step 4 - Purchase textbooks

Textbooks may be purchased at the KCC Bookstore in Founders Hall and at [bookstore.klamathcc.edu](http://bookstore.klamathcc.edu). If financial aid is complete, students can charge books to their student account at the bookstore. For more information, please visit [bookstore.klamathcc.edu](http://bookstore.klamathcc.edu) or call 541-880-2345.

2025-2026 FAFSA APPLICATIONS COMING DECEMBER 1



Pay for it like a BO\$\$

There are a number of ways to finance your education.

- File your 2024-2025 application now at [studentaid.gov/fafsa](http://studentaid.gov/fafsa)
- Ask a financial aid advisor about Pell Grants. 70% of KCC students qualify for Pell!
- Apply for other grants at [oregonstudentaid.gov/grants](http://oregonstudentaid.gov/grants). You may qualify for free tuition!
- Apply for Office of Student Access and Completion (OSAC) scholarships at [oregonstudentaid.gov/scholarships](http://oregonstudentaid.gov/scholarships)
- Transferring to Oregon Tech? Join the **Badger to Owl Connection** and save thousands.
- Take 15 or more credits through our **15 to Finish** program and earn three free lecture credits.
- Apply for scholarships through the KCC Foundation or other sources listed on KCC's website.

For more information about financing your KCC experience, call 541-880-2352, see a financial aid advisor in Founders Hall, or visit [www.klamathcc.edu/financial-aid](http://www.klamathcc.edu/financial-aid) TODAY!



Academic Calendar

Winter Term 2025

Register now! Orientation is now mandatory for new students. All degree-seeking students must speak with an academic advisor before registering for classes.

Jan 6	Classes Begin
Jan 10	Last Day to Drop or Add Course (instructor permission required after classes begin)
	Last Day to Request a Refund
Jan 20	Campus Closed – MLK Jr. Day
Feb 10	Spring Term Registration Opens
Feb 17	Campus Closed – Presidents Day
Feb 28	Last Day to Withdraw with a ‘W’
Mar 17-21	Final Exams
Mar 24-28	Spring Break



At KCC our goal is your success. Whatever your goal, we can help you achieve it!

**ENROLL TODAY!**

**KLAMATH**  
Community College

**541-882-3521 | KLAMATHCC.EDU**

Tuition, Fees, and Funding

TUITION & FEES

Current tuition information can be found at [www.klamathcc.edu/tuition](http://www.klamathcc.edu/tuition)

SCHOLARSHIPS

General scholarship information can be found at [www.klamathcc.edu/scholarships](http://www.klamathcc.edu/scholarships)

KCC Foundation scholarships can be found at [www.klamathcc.edu/foundation-scholarships](http://www.klamathcc.edu/foundation-scholarships)

OTHER FUNDING

Emergency funds  
[www.klamathcc.edu/foundation-scholarships](http://www.klamathcc.edu/foundation-scholarships)

STEP/SNAP/TANF JOBS

[www.klamathcc.edu/step](http://www.klamathcc.edu/step)

Payment

Tuition and fees are due by the first day of class; accounts are considered past due after this date. Students must pay their account in full or have a completed financial aid application filed by this date. The college accepts all traditional forms of payment, including cash (U.S. dollars only), checks, MasterCard, VISA, Discover, debit cards, and payments online. Third-party payment arrangements are also acceptable, which include agency or company payment authorizations, financial aid, scholarships, and veterans educational benefits. It is the student’s responsibility to ensure that written third-party authorization is received by the college. Installment plans are available for students with a minimum balance of at least \$275. For more information on setting up an installment agreement and making payments, please contact the cashier at 541-880-2237.

A late fee of \$25 may be assessed on student accounts that are past due. This fee may be assessed up to three times during the term. Failure to make timely payments or to make satisfactory payment arrangements by the due date may result in late fees and/or administrative withdrawal from classes. Prior term unpaid balances must be paid in full before registering for another term. Other college services such as diplomas, registration privileges, or any combination thereof may be withheld if students do not make satisfactory arrangements to meet their financial obligation to the college. KCC and Oregon Tech provide concurrent notification to one another of student holds.

KCC Bookstore

Textbooks for Klamath Community College courses are available at the KCC Bookstore. The bookstore stocks new and used textbooks, school and art supplies, KCC clothing and logo items, graduation regalia and an assortment of food and beverages. The bookstore is located in Founders Hall, Building 9.

Current KCC students receiving federal financial aid may be eligible to charge textbooks and school supplies to their student accounts. At the end of the term, students may sell books back to the bookstore.

For more information visit [bookstore.klamathcc.edu](http://bookstore.klamathcc.edu) or call 541-880-2345.

KCC Career Services Center

The KCC Career Services Center, located in Building 4, Room 415, is your one-stop-shop for help with career counseling, advising, and coaching, including individualized assistance and/or workshops for the following topics:

- Resume and cover letter writing
- Filling out job applications
- Behavioral and traditional interviewing
- Dressing for interviews, office visits, and work
- Job search techniques
- Networking with employers
- Mock interviews
- Job fairs
- Labor market research/career exploration assessments to find a career based on your interests

Contact the Career Services Center at [kcccareercenter@klamathcc.edu](mailto:kcccareercenter@klamathcc.edu) or call 541-880-2354.

Community Resource Benefits Navigator

The Community Resource Benefits Navigator coordinates a wide range of non-academic resources, assist students in evaluating and addressing their specific barriers, and ensures students are aware of all the available resources and benefits, including:

- Referring students to on-campus resources
- Referring students to external partners
- Connecting students to local, state, and federal benefits and resources by:
  - Determining eligibility,
  - Assisting students with the application process,
  - Ensuring students maximize available resources and benefits

Contact the Community Resource Benefits Navigator at [kcc.benefits.navigator@klamathcc.edu](mailto:kcc.benefits.navigator@klamathcc.edu).

Accessibility Services

Accessibility Support Services are available for students with documented disabilities. Students can meet with the Accessibility Coordinator to help set up accommodations for courses. Accommodations can include extra time on tests, a dedicated note taker, and more.

Accessibility Support Services can be contacted at [kcc.disability@klamathcc.edu](mailto:kcc.disability@klamathcc.edu) or call 541-882-3521.

The Learning Resource Center

The Learning Resource Center (LRC), encompassing the Library, Testing Center and Tutoring Center, is the gateway to academic success. Located in Founders Hall, the LRC supports students, staff, faculty, and community learners by creating a welcoming atmosphere where no question is too big or too small. The LRC provides study space, access to research resources (both print and electronic), tutoring, testing, computers, printing, copying, scanning, and much more! KCC students have access to the online SAGE Library System, a collection of over 75 libraries in Eastern Oregon. Many of the LRC’s resources can be accessed online.

Veterans Services

KCC strives to serve United States military service members, veterans, and spouses as students and to ensure their success on campus. KCC’s Campus Veterans Resource Center staff can help you with financial aid and education needs whether you are looking to pursue traditional training or degrees, attain a Community College of the Air Force (CCAF) degree or looking to take online courses through General Education Mobile. For more information, call 541- 880-2214 or email [veterans@klamathcc.edu](mailto:veterans@klamathcc.edu).

Job Opportunity and Basic Skills (JOBS)

JOBS services are available for SNAP recipients of all ages who are seeking a job or career education that will allow them to seek, or return to, work in less than one year.

Services available:

- Career coaching
- GED and English as a Second Language (ESL) programs
- Academic skill building
- Career Pathways training
- Internships / work experience
- Connection to resources and scholarships (for eligible participants)

Contact the JOBS Coordinator at 541-880-2381 or [ruizm@klamathcc.edu](mailto:ruizm@klamathcc.edu).



KCC Students Ride Free

Show your KCC student ID and BTS will do the driving for you.

Do you need a lift to campus? Just show a valid KCC student ID card and Basin Transit Service (BTS) will bring you in from anywhere on its routes! Buses stop hourly on campus at :55 on the hour from 8:55 AM to 3:55 PM.



STEP

SNAP Training and Employment Program (STEP) services are available for SNAP recipients of all ages who need help in seeking, or continuing with, job or career education. Services available:

- Career coaching
- Academic skill building
- Career Pathways training
- Internships / work experience
- KCC tuition, books, and fee support

Contact the STEP Coordinator at 541-880-2343 or [scobee@klamathcc.edu](mailto:scobee@klamathcc.edu).

Technology Help Desk

Need help with printing, installing Microsoft Office 365, or other technology?

Visit the Technology Help Desk in the Health Sciences Building (Bldg 6) room 6134.

Phone: 541-880-2226  
Email: [is.helpdesk@klamathcc.edu](mailto:is.helpdesk@klamathcc.edu)

Hours:

Monday - Friday: 7 AM-8 PM  
Saturday: 10 AM-2 PM

Testing Center

The Testing Center provides testing/proctoring services for a variety of assessments to KCC students, the extended community, other partnering colleges, and local/state licensing agencies. For more information, call 541-880-2334. The Testing Center is located in Building 3.

TRiO Student Support Services

TRiO Student Support Services is a free program funded by the U.S. Department of Education. TRiO accepts up to 140 students and follows that cohort from program entry to graduation and/or transfer. Students receive extra academic advising, transfer assistance, tutoring, career and learning style assessment, visits to universities, and several cultural events each year.

TRiO is located in Founders Hall. For more information, or to request an application, call 541-880-2289, email [trio@klamathcc.edu](mailto:trio@klamathcc.edu) or visit [www.klamathcc.edu/trio-sss](http://www.klamathcc.edu/trio-sss).

Tutoring Services

**IN-PERSON TUTORING**

Tutors are available to help students in a variety of subjects, including math, chemistry, physics, biology, writing, computers, English, Spanish, and more! This service is free to current students in the LRC's Tutoring Center, upstairs in Founders Hall, room 9120.

**TutorMe**

Students have free 24/7 access to reference help and online tutoring through the college's online learning platform, Canvas.

Get Involved and Stay Connected!  
Office of Student Life

Student Life promotes the development and success of our students by providing opportunities for meaningful, diverse connections; personal and professional leadership and growth; and community engagement and service.

Get connected! Stop by the Office of Student Life to find ways to enhance your college experience at KCC and develop your skills outside the classroom.

For more information or to get involved, contact Student Life at 541-880-2321 or via email at [studentlife@klamathcc.edu](mailto:studentlife@klamathcc.edu).

Experiences Beyond the Classroom  
COMMUNITY SERVICE & VOLUNTEERISM

The Volunteer Badgers program offers opportunities for students and employees to give back to the Klamath Falls community. From adopting a section of the OC&E Trail to volunteering at local events, Volunteer Badgers host service days and are working to expand the number and type of projects available.

The Office of Student Life also hosts a volunteer fair to facilitate meaningful service and community engagement in partnership with community-based organizations. Check out our calendar for event dates and times: [www.klamathcc.edu/events](http://www.klamathcc.edu/events).

**DIVERSITY**

The Office of Student Life celebrates the diversity of experiences and backgrounds found within the KCC community. To foster connection and growth among students and staff, Student Life hosts a wide variety of diversity-based activities and events.

**WELLNESS**

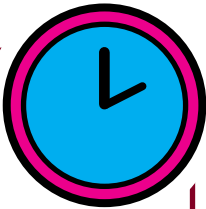
Being a student is more than sitting in a classroom. Student Life aims to get students moving and practice wellness in their everyday lives. Students are invited to use the Wellness Center in Building 4. Students are invited to join the soccer, golf, or bowling clubs.

**LEADERSHIP**

The Office of Student Life hosts workshops to encourage student learning beyond the classroom. These workshops are free and open to students at any level in their leadership journey. Potential topics include effective communication, resumé review, informed decision making, emotional intelligence, and more.

KCC Standard Hours:

Campus offices are open Monday through Friday between the hours of 8 AM and 5 PM, except on national holidays.



Associated Students of  
**KLAMATH**  
Community College

Get Involved

**ASSOCIATED STUDENTS OF KLAMATH COMMUNITY COLLEGE (ASKCC)**

ASKCC advocates for the student body at local, state, and federal levels, creating opportunities for community engagement and providing access to resources based on individual and collective student needs.

Advocacy • Service • Knowledge • Community • Connection  
ASKCC OFFICERS

ASKCC officers are selected each year during the spring term and work to advocate for the student body each academic year (summer term through spring). Officers are available for support or a listening ear during their office hours each week in the Office of Student Life located in Building 4.

If you are interested in applying for an officer position, stop by the Office of Student Life or email [studentlife@klamathcc.edu](mailto:studentlife@klamathcc.edu).

Student Clubs and Organizations

**WHY SHOULD YOU GET INVOLVED?**

Have you ever been passionate to represent a culture or hobby? Joining a club would be a perfect fit! At KCC, student clubs and organizations are the perfect environment to take ownership of your college experience with and have some fun. Students who are involved in clubs will tell you that they provide leadership opportunities, a greater sense of belonging, and a positive outlet for the stress that college can bring.

Visit [www.klamathcc.edu/clubs](http://www.klamathcc.edu/clubs) to see a list of active clubs.

**DON'T SEE A CLUB YOU WANT TO JOIN? CREATE A NEW CLUB!**

It's simple to start a new club on campus! If you have an idea for a club that you would like to see at KCC, contact Student Life, at [studentlife@klamathcc.edu](mailto:studentlife@klamathcc.edu) or 541-880-2321.

YOUR FUTURE IS CALLING

AFFORDABLE TUITION

FLEXIBLE SCHEDULES

HANDS-ON LEARNING

**ENROLL TODAY!**  
[WWW.KLAMATHCC.EDU/APPLY](http://WWW.KLAMATHCC.EDU/APPLY)



# Degrees and Certificates

### Accounting

- Associate of Applied Science
  - Accounting AAS
- One-Year Certificate
  - Accounting Certificate
- Less-Than-One-Year Certificate
  - Accounting Career Pathway Certificate

### Agriculture Science

- Associate of Applied Science
  - Agriculture Science AAS
- Less-Than-One-Year Certificate
  - Farm and Ranch Manager Career Pathway Certificate

### Associate of Arts Transfer (AAT)

- AAT- English Literature

### Associate of Arts, Oregon Transfer (AAOT)

- AAOT
- AAOT - Elementary Education
- AAOT - Exercise Science Emphasis
- AAOT - Fire Ecology Emphasis
- AAOT - Forest Ecology Emphasis
- AAOT - Math Emphasis

### Associate of General Studies (AGS)

- AGS
- AGS - Psychology

### Associate of Science (AS)

- Associate of Science

### Associate of Science Transfer (AST)

- AST - Biology
- AST - Business

### Automotive Technology

- Associate of Applied Science
  - Automotive Technology AAS
- Less-Than-One-Year Certificate
  - Automotive Technician Electrical/Electronic Specialist Career Pathway Certificate

### Aviation

- Associate of Applied Science
  - Aviation Airplane AAS
  - Aviation Helicopter AAS

### Business Administration

- Associate of Applied Science
  - Business Administration AAS (Emphasis in Business Management or Marketing)
- One-Year Certificate
  - Business Administration Business Management Certificate
  - Business Administration Marketing and Sales Certificate
  - Business Administration Human Resources Certificate
- Less-Than-One-Year Certificate
  - Business Administration First-Line Supervisor Fundamentals Career Pathway Certificate

### Business Technology

- Associate of Applied Science
  - Business Technology Administrative Office Professional AAS
- One-Year Certificate
  - Business Technology Administrative Office Professional Certificate
- Less-Than-One-Year Certificate
  - Business Technology Administrative Office Professional Office Support Specialist Career Pathway Certificate

### Computer Engineering Technology

- Associate of Applied Science
  - Computer Engineering Technology AAS
- One-Year Certificate
  - Computer Systems Fundamentals Certificate
- Less-Than-One-Year Certificate
  - Computer Systems Fundamentals Career Pathway Certificate

### Cosmetology

- Associate of Applied Science
  - Cosmetology AAS
- One-Year Certificate
  - Cosmetology - Barbering Certificate
  - Cosmetology - Esthetics and Nail Technology Certificate
  - Cosmetology - Hair Design Certificate
- Less-Than-One-Year Certificate
  - Cosmetology - Esthetics Career Pathway Certificate

### Criminal Justice

- Associate of Applied Science
  - Criminal Justice AAS
- One-Year Certificate
  - Addiction Studies Certificate
  - Criminal Justice Certificate
- Less-Than-One-Year Certificate
  - Addiction Studies Career Pathway Certificate

### Cybersecurity and Networking

- Associate of Applied Science
  - Cybersecurity and Networking AAS
- One-Year Certificate
  - Secure Network Technician Certificate
- Less-Than-One-Year Certificate
  - Computer Support Technician I Career Pathway Certificate

### Diesel Technology

- Associate of Applied Science
  - Diesel Technology AAS
- Less-Than-One-Year Certificate
  - Diesel Technician Electrical/Electronic Specialist Career Pathway Certificate
  - Professional Truck Driver Career Pathway Certificate

### Digital Media Design

- Associate of Applied Science
  - Digital Media Design AAS
- One-Year Certificate
  - Digital Media Design Multimedia Design Certificate
  - Digital Media Design Web Design Certificate
- Less-Than-One-Year Certificate
  - Digital Media Design Multimedia Design Career Pathway Certificate
  - Digital Media Design Web Design Career Pathway Certificate

### Education

- Associate of Applied Science
  - Early Childhood Educator Emphasis AAS
  - Education - Paraeducator Emphasis AAS
- One-Year Certificate
  - Early Childhood Educator Certificate
  - Education - Paraeducator Certificate
- Less-Than-One-Year Certificate
  - Early Childhood Education Career Pathway Certificate
  - Early Childhood Education Career Pathway Certificate (Spanish)
  - Education - Paraeducator Career Pathway Certificate

### Emergency Response and Operations

- Associate of Applied Science
  - Emergency Response and Operations AAS (Emphasis in Criminal Justice, Emergency Medical Technician, Structural Fire Science, and Wildland Fire Science)
- One-Year Certificate
  - Criminal Justice Certificate - ERO
  - Emergency Medical Technician Certificate
  - Structural Fire Science Certificate
  - Wildland Fire Science Certificate
- Less-Than-One-Year Certificate
  - Criminal Justice Career Pathway Certificate
  - Emergency Medical Technician Career Pathway Certificate
  - Structural Fire Science Career Pathway Certificate
  - Wildland Fire Science Career Pathway Certificate

### Health Services

- Associate of Applied Science
  - Health Information Management AAS
- One-Year Certificate
  - Certified Coding Specialist Certificate
- Less-Than-One-Year Certificate
  - Electronic Health Record Career Pathway Certificate
  - Medical Administrative Assistant Career Pathway Certificate

### Laboratory Technician

- Associate of Applied Science
  - Laboratory Technician AAS
- One-Year Certificate
  - Laboratory Technician Certificate
- Less-Than-One-Year Certificate
  - Biological and Biotechnology Laboratory Technician Career Pathway Certificate
  - Medical and Clinical Laboratory Technician Career Pathway Certificate

### Manufacturing Engineering Technology

- Associate of Applied Science
  - Manufacturing Engineering Technology AAS
- One-Year Certificate
  - Manufacturing Engineering Technologist Certificate
- Less-Than-One-Year Certificate
  - Computer Aided Design Career Pathway Certificate
  - Mechanical Design Solid Modeling Career Pathway Certificate

### Nursing

- Associate of Applied Science
  - Nursing AAS
- One-Year Certificate
  - Practical Nurse Certificate

### Surgical Technology

- Associate of Applied Science
  - Surgical Technology AAS

### Welding

- One-Year Certificate
  - Welding Certificate
- Less-Than-One-Year Certificate
  - Welding - Gas Metal Arc/Wire Feed Welding Career Pathway Certificate
  - Welding - Shield Metal Arc/Stick Welding Career Pathway Certificate
  - Welding - Tig/Aluminum Stainless Steel Flat Welding Career Pathway Certificate
  - Welding - Shield Metal Arc/Stick Welding of Pipe Career Pathway Certificate

# Campus Safety



The Campus Safety staff is committed to promoting a safe and secure campus and protecting our college community. All members of the college can assist in making Klamath Community College a safe environment. We need your eyes and ears open to help keep our campus safe. Please report any suspicious activity to Campus Safety.

## CONTACT INFORMATION

Visit Building 3, Room 301

Emergency: call 911

Campus Safety can be contacted at 541-880-2314.

You can contact Campus Safety via email at [safety@klamathcc.edu](mailto:safety@klamathcc.edu).

## CRIME PREVENTION TIPS

- Always lock your car.
- Park in a lighted area at night.
- Try to travel in groups.
- Be aware of blue-light emergency phone locations.
- Walk with your keys in hand.
- Look in your backseat before entering your car.
- Carry your purse or backpack close to your body.
- Never accept a ride from a stranger.
- Let friends and/or family know of your schedule.
- In case of an emergency, CALL 911 !

## Klamath Community College Non-Discrimination and Equal Opportunity Policy

Klamath Community College is an equal opportunity educator and employer. It shall be the policy of the Klamath Community College District to affirm the rights of all individuals to equal education, activities, facilities, and employment without regard to age, sex, disability, national origin, race, color, marital status, religion, or sexual orientation in accordance with federal and state laws. Klamath Community College complies with Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, Title II of the Americans with Disabilities Act of 1990, and any amendments thereto.

Inquiries or grievances concerning the application of these laws and regulations to the college may be directed to Klamath Community College's Executive Director of Human Resources and General Counsel at 7390 South 6th St., Klamath Falls, OR 97603 or at 541-882-3521; or to the Office of Civil Rights, U.S. Department of Education, 915 Second Ave. Room 3310, Seattle, WA 98174-1099.



Building #	Building Name	Building Contents
Building 1		Childcare Facility
Building 2		Classrooms
Building 3		Agriculture Lab, Art Lab, Faculty Offices, HR Offices, Testing Center
Building 4		Aviation, Career Services Center, Commons, Food Services, Student Life Center, Classrooms, Wellness Center
Building 5	Career Technical Center (CTC)	Career Technical Education Classes, Auto & Diesel Lab, Faculty Offices
Building 6	Health Sciences Building (HSB)	Science classrooms, Health and Science Labs, Computer Labs, Student Study Spaces, Faculty Offices
Building 7	KCC Conference Center	Conference Center Space
Building 8	Work Skills Technology Center (WSTC)	Classrooms, Faculty Offices, Klamath Center for Education and Training, Workforce and Community Education Offices
Building 9	Founders Hall	Administrative Offices, Cashier, Bookstore, Financial Aid, TRiO, Learning Resources Center, Student Services, Veterans Services
Building 10	Apprenticeship Center	Welding, Apprenticeship and Workforce Training, HEP Center, Manufacturing Engineering Technology (MET), Fire Science, Emergency Management Services
Building M	Maintenance	Maintenance



Common Course Numbering

In February 2023, the Oregon Higher Education Coordinating Commission (HECC) implemented Common Course Numbering. These courses are standardized in the course title, number, learning outcomes, descriptions, subject code, and credits. The courses are intended to help students keep credit when they transfer from a community college to a four-year university. This saves students time and money by not having to re-take courses. This change benefits students who transfer between any public institution in Oregon.

**What does that mean for you?** It means that when you see a course code ending in the letter 'Z' you are looking at a common course, so it will transfer with no loss of credit between any of Oregon's public universities or community colleges. Be on the lookout for these new courses in the following pages and online at [classes.klamathcc.edu](https://classes.klamathcc.edu).

Seamless Transfer

KCC is a regionally accredited institution that provide seamless transfer opportunities.

Regional Accreditation

[www.klamathcc.edu/accreditation](https://www.klamathcc.edu/accreditation)

Transfer

[www.klamathcc.edu/transfer](https://www.klamathcc.edu/transfer)

KCC Common Courses:

- BUS 101Z Introduction to Business
- BUS 211Z Principles of Financial Accounting
- BUS 213Z Principles of Managerial Accounting
- COM 111Z Public Speaking
- COM 218Z Interpersonal Communication
- ENG 104Z Introduction to Fiction
- ENG 105Z Introduction to Drama
- ENG 106Z Introduction to Poetry
- MTH 105Z Math in Society
- MTH 111Z Precalculus I: Functions
- MTH 112Z Precalculus II: Trigonometry
- PSY 201Z Introduction to Psychology
- PSY 202Z Introduction to Psychology II
- STA 243Z Elementary Statistics I
- WRI 121Z Composition I
- WRI 122Z Composition II
- WRI 227Z Technical Writing

Course codes ending with 'M'

Have you ever looked at the course schedule and wondered why some course codes end with 'M'? You are not alone. Courses that end with 'M' are different from other courses. 'M' classes are always worth five (5) credits, and they cover the same material as other courses with the same title and code. This extra credit hour means more coursework for the same material. There are no extra fees for 'M' classes, but they do cost more in tuition since tuition is charged per credit.

KCC's 'M' courses are intended for our students in the military, but any current student can take them. However, before signing up for an 'M' course, make sure to talk to your advisors since the credit difference may affect your financial aid or degree plan.

Learn more about Common Course Numbering (HECC website)





Addiction Studies

**ADS 150      Basic Counseling & Addiction**  
Introduction to the theory and practice of addiction counseling. Students will examine various counseling theories and begin developing their own approach to addiction counseling. Students will participate in guided practice to facilitate skill development. Recommended: WRI 121 placement.

**ADS 152      Group Counseling & Addiction**  
Introduction and examination of the theory and practice of group counseling in addiction counseling. Students will examine various counseling theories and begin developing their own approach to addiction counseling. Students will participate in guided practice to facilitate skill development. Recommended: Placement into WRI 121.

**ADS 156      Ethical & Professional Issues**  
In-depth examination of counseling ethics with particular focus and attention paid to the role of the professional addictions counselor. Students will become familiar with the ethical guidelines of the ACCBO (Addiction Counselor Certification Board of Oregon) and the American Counseling Association. Recommended: WRI 121 placement.

**ADS 157      Risk Assessment & Intervention**  
An examination of risk assessment and risk management. Topics will include such areas as HIV/AIDS, hepatitis, suicide, and other areas of self-harm. Students will be able to identify ways in which harm reduction and management of high-risk behaviors in addictions counseling represents an important shift in the focus of addictions treatment. Recommended: WRI 121 placement.

**ADS 280      Coop Wk Exp: Addictions**  
On-the-job, paid or volunteer experiences which allow for the application and development of knowledge, skills, and attitudes learned through the on-campus program. Instructor permission is required, and the student must locate a job site for the course.

Automotive Technology

**AMT 291      Safety and Lubrication**  
Students will perform career readiness education through practice of live work-based skills. This course will focus on introducing students to the correct use of personal safety equipment and procedure.

**AMT 294      Entry Level Technician 1**  
Students will perform career readiness education through practice of live work-based skills. This course will focus on performance, procedure, and applied skills of an entry level technician 1. Prerequisite: AMT 293 with a grade of “C” or better.

Animal Science

**ANS 215      Beef/Dairy Industry**  
Introduction to beef and dairy industries: history, current industry status, demonstration, and practice of basic husbandry skills. Prerequisite: ANS 121. Corequisite: ANS 215L.

**ANS 215L      Beef/Dairy Industry Lab**  
Laboratory activities relating to ANS 215. Corequisite: ANS 215.

Apprenticeship

**APR 110      Intro to Skilled Trades**  
Job Site Safety Training and Certificate, Hand Tools, Power Tools, Construction Math, Building Plans and Blueprints, Rigging, Employability Skills, Communication and Material Handling. OSHA 10- Training and Certification, CPR and First Aid Training.

Art

**ART 115      Basic Design: 2-D Black and White**  
Studio course introducing 2-D black-and-white foundations centered on creative problem solving. Establishes critical skills and personal artistic vision. Investigates a broad range of materials, techniques and projects to explore black-and-white design concepts with reference to historical and contemporary perspectives.

**ART 213      Mod Art Hist - Art Since 1945**  
World War II ended the supremacy of Europe in the visual art world and focused attention on America. Course examines and analyzes art since 1945 to explore the ideas behind it, reveal our culture and values, and to gain a greater understanding and appreciation of contemporary art. Recommended: WRI 121 placement.

**ART 213M      Mod Art Hist: 1920 to Present**  
Examines and analyzes the visual arts, beginning with approximately 1920 and extending to the present, to reveal the processes that led to the formation of culture in our contemporary society. Recommended: WRI 121.

**ART 231      Drawing II**  
A studio experience with supporting slides, lectures, and occasional films. Further exploration of different ways of seeing and drawing to become more visually literate. Course presents intermediate or advanced drawing techniques and materials. Employs conceptual references for critical analysis of visual forms, along with basic theories of art within the historical context. You will be expected to purchase materials for this course based on a list provided by the instructor. Material costs will be approximately \$80. Prerequisite: ART 131.

**ART 265      Art for Teachers**  
Students will gain experience with a variety of art materials appropriate for use in the classroom. This course addresses the challenge of learning the “how- to” of art while preparing to teach the same to children.

Aviation

**AVS 100      Intro to Aviation**  
This course examines aviation from early flight to future potentials. Introduces career opportunities in all fields of aviation and outlines career advancement possibilities. Provides general overview of pilot certificates and ratings and training aircraft used.

**AVS 105      Aviation Fundamentals**  
Covers the basic fundamentals of aircraft aerodynamics, aircraft performance, and aviation meteorology with emphasis on Air Traffic Control (ATC) procedures, pilot communication, and the National Airspace System (NAS).

**AVS 111F      Private Pilot I Flight - Helicopter**  
Flight segment of AVS 111G. Corequisite: AVS 111G.

**AVS 111G      Private Pilot I: Helicopter**  
This course teaches the basic knowledge and techniques required to achieve solo helicopter flight as part of achieving your FAA Private Pilot Rotorcraft – Helicopter Certificate. Prerequisites: FAA Class II Medical, Duty Weight <240 lbs. Corequisite: AVS 111F.

**AVS 112F      Private Pilot I Flight - Airplane**  
Flight segment of AVS 112G. Prerequisites: FAA Class II Medical, Corequisite: AVS 112G.

**AVS 112G      Private Pilot I - Airplane**  
This course teaches the basic knowledge and techniques required to achieve solo airplane flight as part of achieving the FAA Private Pilot Airplane – Single Engine Land Certificate. Recommended: AVS 105 taken concurrently with this course. Prerequisites: FAA Class II Medical. Corequisite: AVS 112F.

**AVS 116F      Priv Pilot II Flight - Helicopter**  
Flight segment of AVS 116G. Corequisite: AVS 116G.

**AVS 116G      Private Pilot II - Helicopter**  
This course teaches the advanced knowledge and techniques required to pass the FAA Knowledge Test and Practical Check-Ride to achieve the FAA Private Pilot Rotorcraft – Helicopter Certificate. Prerequisites: AVS 111G and AVS 111F with a grade of “C” or better, FAA Class II Medical, Duty Weight <240 lbs. Corequisite: AVS 116F. [Aviation: Helicopter AAS]

**AVS 117F      Private Pilot II Flight - Airplane**  
Flight segment of AVS 117G. Prerequisites: AVS 112F and AVS 112G with a grade of “C” or better, FAA Class II Medical, Corequisite: AVS 117G.

**AVS 117G      Private Pilot II - Airplane**  
This course teaches the advanced knowledge and techniques required to pass the FAA Knowledge Test and Practical Check-Ride to achieve the FAA Private Pilot Airplane – Single Engine Land Certificate. Prerequisites: AVS 112F and AVS 112G with a “C” or better, FAA Class II Medical, Corequisite: AVS 117F.

**AVS 140      Intro to Unmanned Aerial Systems**  
This course offers an introduction to the history of unmanned aerial systems (UAS) and surveys current UAS platforms, sensors, terminology, challenges to integrating unmanned systems into the national airspace system, operational theory, and the Federal Aviation Administration (FAA) certificate of authorization (COA) process.

**AVS 155      Applied Aerodynamics**  
This course introduces aerodynamics. Explores various concepts and theories relevant to modern aviation. Prerequisite: AVS 105 or instructor approval.

**AVS 200F      Instrument Flight - Helicopter**  
Flight segment of AVS 200G. Corequisite: AVS 200G.

**AVS 200G      Instrument - Helicopter**  
The student will obtain the knowledge, skills, and aeronautical experience necessary to meet the requirements for an Instrument Rating (Rotorcraft – Helicopter). Covers fundamentals of instrument flight, operation, use and limitations of flight instruments, aircraft performance, aeronautical publications, Federal Aviation Regulations, instrument navigation, flight planning, radio procedures, weather, and all topics in accordance with Federal Aviation Regulation. Corequisite: AVS 200F.

**AVS 202F      Instrument Flight- Airplane**  
Flight segment of AVS 202G. Corequisite: AVS 202G.

**AVS 202G      Instrument- Airplane**  
The student will obtain the knowledge, skills, and aeronautical experience necessary to meet the requirements for an Instrument Rating (Airplane – Single Engine Land). Covers fundamentals of instrument flight, operation, use and limitations of flight instruments, aircraft performance, aeronautical publications, Federal Aviation Regulations, instrument navigation, flight planning, radio procedures, weather, and all topics in accordance with Federal Aviation Regulation. Corequisite: AVS 202F.

**AVS 205F      Commercial Flight- Helicopter**  
Flight segment of AVS 205G. Corequisite: AVS 205G.

**AVS 205G      Commercial- Helicopter**  
The student will obtain the knowledge, skills, and aeronautical experience necessary to meet the requirements for a Commercial Pilot Certificate (Rotorcraft – Helicopter). Includes in-depth study of aerodynamic systems, performance, aeronautical charts, and regulations. Focus on helicopter flight maneuvers, cross-country flight procedures, and emergency maneuvers. Includes all solo requirements. Corequisite: AVS 205F.

**AVS 207F      Commercial Flight- Airplane**  
Flight segment of AVS 207G. Prerequisite: Be at least 18 years of age at time of FAA check flight, hold at least a first or second-class medical certificate valid for at least second-class privileges, and a Private Pilot Airplane (SEL) Certificate. Duty weight <240 lbs. Corequisite: AVS 207G.

**AVS 207G      Commercial - Airplane**  
The student will obtain the knowledge, skills, and aeronautical experience necessary to meet the requirements for a Commercial Pilot Certificate (Airplane – Single Engine Land and Multiengine Land). Includes in-depth study of single and multiengine aerodynamics, complex aircraft operations, propeller feathering, V-speeds, human factors, crew resource management, and FAA regulations for commercial pilots. Focus on airplane flight maneuvers, cross-country flight procedures, one engine inoperative, and emergency maneuvers. Includes all solo requirements. Corequisite: AVS 207F.

**AVS 210F      Cert Flight Inst Flight- Helicopter**  
Flight segment of AVS 210G. Corequisite: AVS 210G.

**AVS 210G      Cert Flight Instructor- Helicopter**  
The student will acquire the instructional knowledge, understanding, and skill necessary to teach and analyze maneuvers and procedures to meet the requirements for a Flight Instructor Certificate (Rotorcraft – Helicopter). The course includes flight instruction, fundamentals, evaluation techniques, and related skills necessary. Provides a structured environment to learn to teach and evaluate students to achieve a Private Pilot and Commercial Pilot certificate in compliance with Federal Aviation Administration Standards. Corequisite: AVS 210F.

**AVS 212F      Cert Flight Inst Flight- Airplane**  
Flight segment of AVS 212G. Corequisite: AVS 212G.



**AVS 212G      Cert Flight Inst- Airplane**  
The student will acquire the instructional knowledge, understanding, and skill necessary to teach and analyze maneuvers and procedures to meet the requirements for a Flight Instructor Certificate (Airplane – Single Engine Land). The course includes flight instruction, fundamentals, evaluation techniques, and related skills necessary. Provides a structured environment to learn to teach and evaluate students to achieve a Private Pilot and Commercial Pilot certificate in compliance with Federal Aviation Administration Standards. Corequisite: AVS 212F.

**AVS 215F      Cert Flight Inst Instru Flight- Hel**  
Flight segment of AVS 215G. Corequisite: AVS 215G.

**AVS 215G      Cert Flight Inst Instrument- Heli**  
The student will acquire the instructional knowledge, understanding, and experience necessary to meet the requirements for a Flight Instructor Instrument Rating (Rotorcraft – Helicopter). The course includes flight instruction, fundamentals, evaluation techniques, and related skills necessary. Provides a structured environment to learn to teach and evaluate students to achieve an instrument rating in a helicopter in compliance with Federal Aviation Administration standards. Corequisite: AVS 215F.

**AVS 217F      Cert FI Inst Instru Flight- Air**  
Flight segment of AVS 217G. Corequisite: AVS 217G.

**AVS 217G      Cert FI Inst Instrument- Air**  
The student will acquire the instructional knowledge, understanding, and experience necessary to meet the requirements for a Flight Instructor Instrument Rating (Airplane – Single Engine Land). The course includes flight instruction, fundamentals, evaluation techniques, and related skills necessary. Provides a structured environment to learn to teach and evaluate students to achieve an instrument rating in an airplane in compliance with Federal Aviation Administration standards. Corequisite: AVS 217F. [

**AVS 222      Multiengine Instructor - Airplane**  
The student will acquire the instructional knowledge, understanding, and skill necessary to teach and analyze maneuvers and procedures to meet the requirements for a Multiengine Instructor (Airplane – Multiengine Land). The course includes flight instruction, fundamentals, evaluation techniques, and related skills necessary. Provides a structured environment to learn to teach and evaluate students to achieve a Commercial Pilot Multiengine Land rating in compliance with Federal Aviation Administration Standards. Prerequisites: Be at least 18 years of age at time of FAA check flight, hold at least a first or second-class medical certificate that is valid for second-class privileges, hold an Unrestricted Commercial Pilot Certificate, Airplane MEL or an Airline Transport Pilot Certificate, Airplane MEL, an Instrument Rating or privilege, Airplane, and a Flight Instructor Certificate.

**AVS 252      Human Factors**  
This course is an introduction to the field of human behavior and characteristics as critical factors in the design and operation of electronic/ machine systems. Emphasis is on crew resource management and human factors, including the study of human performance in complex systems with an examination of personality, stress, anxiety, fatigue, communication skills, decision making, situational awareness, analysis of aviation and accidents, and practical application of human factors and performance to modern aviation.

**Biology**

**BIO 101      Biology I**  
A laboratory science course designed for non-biology majors. The first term of a three-term sequence. Includes introduction to science, biochemistry, metabolism, the cell, molecular biology and reproduction. Recommended: Completion of CAS 133. Prerequisites: MTH 070 or MTH 095 or MTH 111 or placement into MTH 095 or MTH 111 and WRI 095 or WRI 121 or placement into WRI 121. Corequisite: BIO 101L.

**BIO 101L      Bio I Lab**  
Laboratory activities relating to BIO 101. Corequisite: BIO 101.

**BIO 102      Biology II**  
A laboratory science course designed for non-biology majors. Presents protein syntheses, cell divisions, animal reproduction, genetics, embryology and the basic doctrines of evolution. Prerequisites: MTH 070 or MTH 095 or MTH 111 or placement into MTH 095 or MTH 111 and WRI 095 or WRI 121 or placement into WRI 121. Corequisite: BIO 102L.

**BIO 102L      Bio II Lab**  
Laboratory activities relating to BIO 102. Corequisite: BIO 102.

**BIO 112      Integrated Chemistry and Cell Biology for Health Occupations**  
Introduces basic concepts of matter, atoms, compounds, intermolecular forces, solutions, pH, biomolecules, cell chemistry, cell structure and function, cell reproduction, and genetics. Concepts covered are applied to health-related problems. Recommended: MTH 070 or MTH 095 or MTH 111 or placement into MTH 070. Corequisite: BIO 112L.

**BIO 112L      Integrated Chemistry and Cell Biology for Health Occupations Lab**  
Laboratory activities relating to BIO 112. Corequisite: BIO 112.

**BIO 212      Prin of Biology 2 (Preprofessional)**  
Second part of a three-term sequence designed for students majoring in biology and the sciences, including pre-medical, pre-dental, pre-veterinarian, chiropractic, pharmacy, and related fields. Includes life cycles, reproduction, inheritance, evolution, and ecology. Prerequisites: MTH 095 or MTH 111 or placement into MTH 111 and WRI 095 or WRI 121 or placement into WRI 121. Corequisite: BIO 212L.

**BIO 212L      Prin of Bio 2 Lab**  
Laboratory activities relating to BIO 212. Corequisite: BIO 212.

**BIO 231      Anatomy & Physiology I**  
First term of a three-term sequence covering chemistry, cells, tissues, and the skin, skeletal, and muscular systems. Laboratory experiences will be used to elaborate on concepts presented in lecture. Prerequisites: BIO 112 and BIO 112L. Corequisite: BIO 231L.

**BIO 231L      Anat & Phys I Lab**  
Laboratory activities relating to BIO 231. Corequisite: BIO 231.

**BIO 232      Anatomy & Physiology II**  
Second term of a three-term sequence. Courses may not be taken out of sequence. Covers nervous, endocrine, cardiovascular, and immune systems. Laboratory experiences will be used to elaborate on concepts and presented in lecture. Prerequisite: BIO 231. Corequisite: BIO 232L.

**BIO 232L      Anat & Phys II Lab**  
Laboratory activities relating to BIO 232. Corequisite: BIO 232.

**BIO 233      Anatomy & Physiology III**  
Third term of a three-term sequence. Courses may not be taken out of sequence. Covers digestive, respiratory, urinary, and reproductive systems, fluid and electrolyte balance, metabolism, embryology, and genetics. Laboratory experiences will be used to elaborate on concepts presented in lecture. Prerequisite: BIO 232. Corequisite: BIO 233L.

**BIO 233L      Anat & Phys III Lab**  
Laboratory activities relating to BIO 233. Corequisite: BIO 233.

**BIO 234      Microbiology I**  
Lecture, recitation, and laboratory will cover: Bacterial genetic recombination; bacterial, viral and parasitic relationships with human health and disease; immune system and allergy; water and sewage treatment; soil microbes; and microbiology of foods. Laboratory stresses aseptic technique, bacterial identification and physiology using a variety of media, culturing techniques, and staining techniques. Prerequisites: MTH 095 and WRI 095. Corequisite: BIO 234L.

**BIO 234L      Microbiology I Lab**  
Laboratory activities relating to BIO 234. Corequisite: BIO 234.

**BIO 240      Forensic DNA Biology**  
Lecture with lab course focusing on forensic DNA analysis. Emphasis placed on analysis of PCR products resolved via capillary electrophoresis—the STRs Loci of CODIS and the SNPs of mtDNA for the assessment of identity, ethnic origin, and maternal lineage. Recommended: High school biology in the last 7 years. Prerequisites: MTH 020 or MTH 070 or MTH 095 or MTH 111 or placement into MTH 070 and WRI 090 or WRI 095 or WRI 121 or placement into WRI 095. Corequisite: BIO 240L.

**BIO 240L      Forensic DNA Biology Lab**  
Lab activities relating to BIO 240. Corequisite: BIO 240.

**Business**

**BUS 101      Intro to Business**  
Survey course exploring historical, social, political, economic, and legal environments of business. Interrelationships of the functional areas of management, finance, marketing, accounting, and international business are introduced. The class will stress fundamental concepts, terminology, ethics, and career opportunities.

**BUS 101Z      Introduction to Business**  
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 changes.

**BUS 111      Intro to Accounting**  
Presents double-entry accounting as related to service businesses. Provides an understanding of the accounting cycle, debits and credits, and financial statements for these businesses. Also introduces journalizing and posting to the general ledger.

**BUS 124      Leadership Skills in Action**  
This course introduces new and experienced students to leadership concepts in relation to becoming and functioning as a leader. Students will have opportunities to explore and reflect upon personal leadership styles and strengths, and enhance their leadership abilities through the examination of theory and application of practical information and skills. The course combines experiential components with classroom discussion, reading, and applied learning activities.

**BUS 178      Customer Service Fundamentals**  
This course focuses on the skills necessary to deliver exceptional customer service in a retail or service business or organization. Topics will include developing communication skills and an attitude of service, enhancing customer relationships, dealing with difficult customers, active listening and problem solving to address customer needs, and strategies to remain self-motivated in the service industry.

**BUS 211      Principles of Accounting I**  
Introduces financial accounting theory, including the accounting cycle, analysis and recording of transactions, and reporting financial information in accordance with generally accepted accounting principles. Prerequisite: BUS 111 with a grade of “C” or better.

**BUS 211Z      Principles of Financial Accounting**  
Imparts an understanding of the purpose of accounting, common financial statement items, and the principles of internal controls. Focuses on recording the impact of financial statements to aid in external decision making. Prerequisites: BUS 111 with a grade of “C” or better.

**BUS 212      Principles of Accounting II**  
Continues the presentation of fundamental issues begun in BUS 211. Topics covered will include notes, accrued interest, bad debts, inventory, and plant assets, including depreciation. Also introduces accounting for partnerships, corporations, and long-term liabilities and investments. Prerequisite: BUS 211 with a grade of “C” or better.

**BUS 213      Managerial Accounting**  
Covers managerial accounting, including the cost/volume/profit relationship, manufacturing costs, cost decisions, management planning, budgeting, and responsibility accounting. Prerequisite: BUS 211 with a grade of “C” or better.

**BUS 213Z      Principles of Managerial Accounting**  
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: BUS 211 with a grade of “C” or better.

**BUS 214      Business Communication**  
This course covers concepts and skills necessary to communicate in today’s constantly changing business environment. Students will learn how to create a wide range of business documents and oral presentations, addressing the needs of diverse audiences, and ethical implications of the communication process. Instructor approval may be obtained if a student has not met the WRI 121 prerequisite. Prerequisites: CAS 133 and WRI 121.



- BUS 218**

**Personal Finance**

Studies the role of the consumer in the economy and addresses problems of financing individual and family needs, including budgeting, banking relationships, charge accounts, installment buying, insurance, wills, real estate investing, and personal taxes. Recommended: Placement into MTH 060 or MTH 070.
- BUS 224**

**Human Resource Management**

Explores the management of human behavior in the workplace, including employment, employee development, performance appraisals, wage and salary administration, employee rights, discipline and due process, and labor-management relations. Prerequisite: WRI 121.
- BUS 226**

**Business Law I**

This course provides an introduction to the legal environment of business. Focus topics include regulation, court jurisdiction, forms of business organization, the obligations arising from business relationships and transactions, and the liabilities arising from business practices. Prerequisite: WRI 121.
- BUS 228**

**Computer Accounting Applications**

Covers use of integrated, computer-based accounting programs. Includes general ledger, accounts receivable, accounts payable, and payroll. Prerequisite: BUS 211 with a grade of “C” or better.
- BUS 229**

**Project Management Fundamentals**

The ability to effectively manage a project is a vital skill in any workplace. This course will introduce the tools needed to effectively plan, implement, and complete projects in a variety of workplace environments. Topics include understanding the project life cycle, identifying resources and potential risks for each stage, working closely with stakeholders, and using the most effective applications to achieve success. Strategies for building and communicating with a team will be stressed, and Microsoft Project will be used as the foundation for this course. Corequisite: BUS 229L.
- BUS 229L**

**Project Management Fundamentals Lab**

Laboratory activities related to BUS 229. Corequisite: BUS 229.
- BUS 238**

**Sales & Sales Management**

Students will learn fundamental skills related to selling products and services in various markets. Topics include strategies for each stage of the sales process, trends in buying behavior, best practices for developing and maintaining customer relationships, and tools to strategically manage the entire sales function. This course offers a blend of theory and practice using demonstrations, role play, and sales simulations.
- BUS 250**

**Small Business Management**

Practical analysis of principles of small business management and owner operated businesses are covered. Explores management methods, financial support, marketing management, common administration and control, analysis of trends, and professional practices. Students will be exposed to the critical elements of a business plan. Prerequisites: BUS 111 or BUS 211 and CAS 133 and CAS 133L.

- BUS 261**

**Consumer Behavior**

This course explores the factors that impact consumer buying behavior and the process that consumers use to make purchasing decisions. Psychological and sociological principles related to consumer behavior and the decision-making process are explored and applied directly to marketing strategy and tools used in a typical retail environment.
- BUS 280**

**Coop Wk Exp: Business**

On-the-job, paid or volunteer, experiences which allow for the application and development of knowledge, skills, and attitudes learned through the on-campus program so that the student can learn various functional aspects of the industry. Cooperative work experience is offered for variable credit based on the student’s objectives. Instructor permission is required prior to registering and the student must locate a job site for the course. Recommended: Completion of TEX 280 or co-enrollment during same term.
- BUS 285**

**Human Relations in Organizations**

This course covers human interactions within organizations, with a particular focus on communication and small group dynamics. Human relations techniques that build better employer/employee relationships are explored, and interpersonal relations both on the job and in everyday life are addressed.
- Computer Applications**

**CAS 121**

**Beginning Keyboarding**

Students will learn to key alphabetic portion of the computer keyboard by touch, develop or refine basic keyboarding techniques, and increase speed and accuracy.

**CAS 133**

**Intro to Computing Skills**

Provides hands-on experience with Microsoft Office software fundamentals, including Word, PowerPoint, and Excel. Includes concepts of computer operations and literacy as well as insight into the broad impact of computers on today’s society. Students should have a basic working knowledge of general computer use prior to enrollment. Recommended: WRI 095 and keyboarding by touch. Corequisite: CAS 133L.

**CAS 133L**

**Intro to Computing Skills Lab**

Laboratory activities relating to CAS 133. Corequisite: CAS 133.

**CAS 170**

**Spreadsheets**

This in-depth, hands-on course will present beginning and intermediate spreadsheet concepts. Students will use Excel efficiently to design and create accurate professional worksheets for use in business. Recommended: CAS 133 and MTH 020 or MTH 070 or MTH 095 or MTH 111 or placement into MTH 070.

**CAS 216**

**Word Processing**

Students will acquire knowledge and skills while preparing and editing word-processed documents. Recommended: Successful completion of CAS 133, and 25 wpm keyboarding proficiency.

**CAS 245**

**Office Systems & Procedures**

This course introduces students to a wide variety of office procedures and skills needed to be efficient in today’s office environment. Students will draw upon related learning in previous courses as they participate in team and individual office skills projects with a focus on application software. Recommended: Successful completion of CAS 170 and CAS 216. Corequisite: CAS 245L.

**CAS 245L**

**Office Systems & Procedures Lab**

Laboratory activities relating to CAS 245. Corequisite: CAS 245.

College Survival and Success

- CGS 100**

**College Survival & Success**

The purpose of this course is to help the student become a more effective learner. This course will cover college terms and information, class choice, degree requirements, etc. Helps new or returning students make personal and social adjustments for college success.
- CGS 112**

**Career Exploration & Planning**

This course will help students explore career options utilizing employment and community resources plus online job search resources. Interviewing skills will be stressed with mock interviews.
- CGS 115**

**Scholarship Applications and Financial Literacy Seminar**

Scholarship application preparation including an overview of the scholarship application process, available scholarship opportunities, and peer review support for the first six weeks of the term. Essay topic brainstorming, activities chart preparation, and writing best practices will also be covered. Students will have an opportunity to examine example essays as well as receive insight from guest speakers. Students will create individual topical financial literacy plans based on student feedback gathered at the beginning of the term.
- Chemistry**

**CHE 104**

**General Chemistry I**

Includes general principles of chemistry, including atomic structure, mole concept, chemical reactions stoichiometry, and gas laws. Prerequisites: MTH 095 or MTH 111 or placement into MTH 111 and WRI 121. Corequisite: CHE 104L

**CHE 104L**

**Gen Chem I Lab**

Laboratory activities relating to CHE 104. Corequisite: CHE 104.

**CHE 222**

**General Chemistry II (Preprofessional)**

Includes chemical stoichiometry, acid and base solutions, oxidation reduction, chemical kinetics, and thermodynamics. Prerequisite: CHE 221. Corequisite: CHE 222L.

**CHE 222L**

**Gen Chem II Lab**

Laboratory activities relating to CHE 222. Corequisite: CHE 222.

Computer Information Systems

- CIS 130**

**Computer Organization**

Introduces computer elements, organization, and instruction sets, computer arithmetic, ALU, registers, datapath, memory and control unit functions. Prerequisite: CIS 162 with a grade of “C” or better.
- CIS 140**

**Linux Fundamentals**

This course provides students with the fundamental concepts of Linux/UNIX operating systems. Students will acquire open source concepts and progressively master Linux commands and understand how Linux is used and the basics of its command line. This course helps prepare students for taking the LPI Linux Essentials Professional Development Certificate (PDC) exam. Corequisite: CIS 140L.
- CIS 140L**

**Linux Fundamentals Lab**

Laboratory activities relating to CIS 140. Corequisite: CIS 140.

- CIS 146**

**Software Installation Support**

This course covers the fundamentals of computer software. Topics covered include operating systems, virtualization, disk and file management, software security, and mobile device and printer software. Students will learn procedures to install, configure, and backup software. Corequisite: CIS 146L.
- CIS 146L**

**Software Installation Support Lab**

Laboratory activities relating to CIS 146. Corequisite: CIS 146.
- CIS 152**

**Network II**

This course covers network communication over the Internet and wireless technology. Students will learn how to configure a wireless network, to use remote access technology, to configure network security, and to make routine system checks and upgrades. Cloud computing and wide area networks (WAN) will be covered. Coursework will include designing and building a small scale local area network (LAN). Corequisite: CIS 152L.
- CIS 152L**

**Network II Lab**

Laboratory activities relating to CIS 152. Corequisite: CIS 152.
- CIS 195**

**Intro to Web Page Design**

Basic course in web page design and creation. Explores design principles, site planning and navigation, typography, and basic graphics. Includes introduction to HTML, JavaScript, cascading style sheets, and other advanced Internet technologies. Student ownership of PC with Internet access, browser, and web authoring software is helpful but not required. Corequisite: CIS 195L.
- CIS 195L**

**Intro to Web Page Design Lab**

Laboratory activities relating to CIS 195. Corequisite: CIS 195.
- CIS 206**

**Intro to Information Technology**

This course introduces the key components found in modern business information systems, including both the major hardware components of today’s network and primary categories of software applications used to support knowledge workers. Data resource management concepts are developed to provide the student with a high level picture of how the elements of an information system work together to solve problems and support business opportunities. Business ethics relating to the use of information systems is explored for local and global firms. Corequisite: CIS 206L.
- CIS 211**

**Digital Game Development II**

Advanced digital game development using 3D video games and Unity. Students will learn game development, design principles and practices. Students will utilize Unity game development tools to create powerful games and interactive augmented reality projects. Corequisite: CIS 211L.
- CIS 211L**

**Digital Game Development II Lab**

Laboratory activities relating to CIS 211. Corequisite: CIS 211.
- CIS 279**

**Network Operating Systems**

Introduces the fundamental skills required to install and configure a Windows Server. Topics covered include: Hyper-V, Active Directory, DNS, DHCP, Group Policy, File and Print Services, and troubleshooting. This course helps prepare students for taking for the Microsoft Windows Server certification examination. Prerequisites: CIS 146 and CIS 152 with a grade of “C” or better. Corequisite: CIS 279L.
- CIS 279L**

**Network Operating Systems Lab**

Laboratory activities relating to CIS 279. Corequisite: CIS 279.



- CIS 280

Coop Wk Exp: Computer Technology Engineer

On-the-job, paid or volunteer, experiences which allow for the application and development of knowledge, skills, and attitudes learned through the on-campus program so that the student can learn all aspects of the industry. Cooperative work experience is offered for variable credit based on the student's objectives. Instructor permission is required and the student must locate a job site for the course. Prerequisites: CIS 146 and CIS 152 with a grade of "C" or better.
- CIS 281

Coop Wk Exp: Computer Technology Engineer 2

Internship, paid, or volunteer experiences which allow for the application and development of knowledge, skills, and attitudes learned through the on-campus program so that the student can experience aspects of the industry. Cooperative work experience is offered for variable credit based on the student's objectives. Instructor permission is required and the student must locate an employer or non-profit organization to fulfill the requirements for the course. Prerequisites: CIS 146 and CIS 152 with a grade of "C" or better.
- CIS 297

Capstone

Requires students to apply responsive design and create a portfolio website project while using industry standard software and technical tools. Includes planning, production, project review, and peer critiques. Includes completion of an online portfolio that show cases coursework artifacts from all completed courses. Requires the development of a self-marketing statement emphasizing the student's career focus.
- Criminal Justice
- CJA 111

Intro to Criminal Justice System - Police

Examines the American criminal justice system and its origins with particular attention to the police. Provides an overview of the entire criminal justice process and reviews contemporary practices such as community policing.
- CJA 112

Intro to Criminal Justice Systems - Courts

Explores: the court system and its procedures; laws as they affect the court system; types and degrees of evidence; rules governing admissibility of evidence; and the structure and function of local, state and federal court systems of the United States.
- CJA 214

Criminal Investigation

Introduces modern investigative methods, including the collection and preservation of physical evidence, scientific aids, sources of information, interviews, follow-up, and case presentation. Includes interviewing and interrogation techniques, and the use of the polygraph. Recommended: CJA 111, CJA 112, and CJA 113. Prerequisites: WRI 121 with a grade of "C" or better.
- CJA 228

Public Safety Writing

Emphasizes writing skills and techniques appropriate to narrative structures necessary for operational police reports. Prerequisite: WRI 121 with a grade of "C" or better.

- CJA 233

Criminology

An in-depth analysis of major theories of crime and deviancy from various sociological, psychological, and political perspectives. Focuses on types of crimes and criminals as well as incidence rates of crimes; examines socioeconomic, cultural, ideological, and psychological factors related to the causes, treatment, and/or prevention of criminal behavior. Recommended: CJA 111, CJA 112, and CJA 113. Prerequisites: WRI 121 with a grade of "C" or better.
- Communications
- COM 111M

Public Speaking

COM 111M emphasizes developing communication skills by examining and demonstrating how self-awareness, audience, content, and occasion influence the creation and delivery of speeches and presentations. Prerequisite: WRI 121.
- COM 111Z

Public Speaking

COM 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. Prerequisite: WRI 121.
- Cosmetology
- COS 102

Oregon Laws and Rules

In this course students will gain knowledge of the laws and rules pertaining to cosmetology established by the Oregon Health Agency. Students will assess the laws and rules as they apply to the field of cosmetology.
- COS 104

Salon Management

This course focuses on the understanding of the salon industry, basic business building techniques, professional relationships, salon ownership and salon retailing.
- COS 105

Cosmetology Science

Students will gain a basic knowledge of structures and functions of the skin and muscles of the hand and feet, and gain an understanding of chemical elements, bonds, pH and cosmetics used in cosmetology. Students will study the principles of electricity as used in the field of cosmetology.
- COS 111

Hair Design Theory I

This class focuses on the beginning background information necessary for Cosmetology students to prepare for Cosmetology clinic/lab sessions and to meet the requirements set forth by the Oregon Board of Cosmetology. Areas to be addressed include hair sculpture, associated tools and their usage and the four basic design forms to complete a woman's hair sculpture, and a men's planer combination form sculpture. Corequisite: COS 111L.
- COS 111L

Hair Design Theory I Lab

Pre-clinic lab sessions prepare students to meet the requirements set forth by the Oregon Board of Cosmetology. Areas to be addressed include hair design, shampooing, rinsing and conditioning, and haircutting for men and women. Corequisite: COS 111.

- COS 112A

Hair Design Theory II

This class focuses on the beginning background information necessary for Cosmetology students to prepare for Cosmetology clinic/lab sessions and to meet the requirements set forth by the Oregon Board of Cosmetology. Areas to be addressed include the properties of the scalp, and hair, and both wet and thermal styling. Prerequisite: COS 111. Corequisite: COS 112L.
- COS 112B

Hair Design Theory II for Barbers

This class focuses on the beginning background information necessary for Cosmetology students to prepare for Cosmetology (Barbering) clinic/lab sessions and to meet the requirements set forth by the Oregon Board of Cosmetology. Areas to be addressed include the properties of the scalp, and hair, and thermal styling. Prerequisite: COS 111. Corequisite: COS 112L.
- COS 112L

Hair Design Theory II Lab

Pre-Clinic lab sessions prepare students to meet the requirements set forth by the Oregon Board of Cosmetology. Areas to be addressed include hair design, shampooing, rinsing and conditioning, haircutting, and hairstyling. Prerequisite: COS 111. Corequisite: COS 112A or COS 112B.
- COS 113

Hair Design Theory III

This class focuses on the beginning background information necessary for Cosmetology students to prepare for Cosmetology clinic/lab sessions and to meet the requirements set forth by the Oregon Board of Cosmetology. Areas to be addressed include basic and advanced perm wrapping patterns and relaxing techniques. Prerequisite: COS 112A. Corequisite: COS 113L.
- COS 113L

Hair Design Theory III Lab

Pre-Clinic lab sessions prepare students to meet the requirements set forth by the Oregon Board of Cosmetology. Areas to be addressed include hair design, shampooing, rinsing and conditioning, haircutting, hairstyling, and chemical texture services. Prerequisite: COS 112A. Corequisite: COS 113.
- COS 114

Hair Design Theory IV

This class focuses on the beginning background information necessary for Cosmetology students to prepare for Cosmetology clinic/lab sessions and to meet the requirements set forth by the Oregon Board of Cosmetology. Areas to be addressed include basic all-over color design and color weaving services. Prerequisite: COS 113. Corequisite: COS 114L.
- COS 114L

Hair Design Theory IV Lab

Pre-Clinic lab sessions prepare students to meet the requirements set forth by the Oregon Board of Cosmetology. Areas to be addressed include hair design, shampooing, rinsing and conditioning, haircutting, hairstyling, chemical texture services and hair coloring. Prerequisite: COS 113. Corequisite: COS 114.
- COS 115C

Hair Design Clinical

Clinic-level lab sessions prepare students to meet the requirements set forth by the Oregon Board of Cosmetology. Areas to be addressed include, client relations, infection control, hair design, women's hair styling, shampooing, rinsing and conditioning, haircutting, and hairstyling. Prerequisite: COS 112A.
- COS 116C

Hair Design Clinical

This course is a continuation of COS 115C. Clinic-level lab sessions prepare students to meet the requirements set forth by the Oregon Board of Cosmetology. Areas to be addressed include client relations, infection control, hair design, women's hair styling, shampooing, rinsing and conditioning, haircutting, hairstyling, chemical texture services, and specialty permanent waves. Prerequisite: COS 113, COS 113L.

- COS 117C

Hair Design Clinical

This course is a continuation of COS 115C and COS 116C. Clinic-level lab sessions prepare students to meet the requirements set forth by the Oregon Board of Cosmetology. Areas to be addressed include, client relations, infection control, hair design, women's hairstyling, shampooing, rinsing and conditioning, haircutting, hairstyling, chemical texture services, specialty permanent waves, and hair coloring. Prerequisite: COS 114.
- COS 121

Esthetics Theory

This course focuses on the beginning background information necessary for Esthetics students to prepare for participation in clinic/lab sessions and to meet requirements set forth by the Oregon Board of Cosmetology. Areas addressed include client relations, infection control, physiology and histology of the skin, skin care products, ingredients and selection, skin analysis, basic facials, facial massage, temporary hair removal products and procedures, microdermabrasion, and the world of makeup. Corequisite: COS 121L.
- COS 121L

Esthetics Theory Lab

These pre-clinic sessions prepare the students to meet the requirements set forth by the Oregon Board of Cosmetology. Areas addressed include client relations, infection control, skin analysis, facials, massage, makeup, temporary hair removal, microdermabrasion, and makeup application. Corequisite: COS 121.
- COS 122C

Esthetics Clinic II

Clinic-level lab sessions prepare students to meet the requirements set forth by the Oregon Board of Cosmetology. Areas to be addressed include client relations, infection control, skin analysis, facials, massage, makeup, temporary hair removal, and makeup application. Prerequisite: COS 121.
- COS 131

Nail Tech Theory

This course focuses on the beginning background information necessary for Nail Technology students to prepare for participation in clinic/lab sessions and to meet requirements set forth by the Oregon Board of Cosmetology. Areas addressed include nail structure and growth, manicuring, pedicuring, nail tips, wraps and nail art. Corequisite: COS 131L.
- COS 131L

Nail Tech Theory Lab

These pre-clinic sessions prepare the students to meet the requirements set forth by the Oregon Board of Cosmetology. Areas addressed include client relations, infection control, manicures, pedicures, nail enhancements and nail art. Corequisite: COS 131.
- COS 132C

Nail Tech Clinic II

Clinic-level lab sessions prepare students to meet the requirements set forth by the Oregon Board of Cosmetology. Areas to be addressed include client relations, infection control, manicures, pedicures, nail enhancements and nail art. Prerequisite: COS 131.



**COS 141      Barbering Theory**  
This class focuses on understanding the history of barbering, shaving and beard design, barbering tools and equipment, men's cutting and styling, and theory of basic skin care. Prerequisite: COS 111. Corequisite: COS 141L.

**COS 141L      Barbering Theory Lab**  
Pre-Clinic lab sessions prepare students to meet the requirements set forth by the Oregon Board of Cosmetology. Areas to be addressed include analysis of the client's hair, scalp and skin, basic skin care services, and performing basic procedures of sculpture, design, facial hair design, shampoo and conditioning. Prerequisite: COS 111. Corequisite: COS 141.

**COS 142C      Barbering Clinic II**  
Clinic-level lab sessions prepare students to meet the requirements set forth by the Oregon Board of Cosmetology. Areas to be addressed include, client relations, infection control, barbering sculpture, hair design, shaving, facial hair design, shampoo and conditioning treatments. Prerequisites: COS 141.

Crop Soil Science

**CSS 210      Forage Production**  
Current production practices for forage crops including establishment, fertilization, pest control, irrigation, renovation, and grazing management.

Diesel Technology

**DST 111      Basic Electricity**  
Provides basic instruction in the principles of electricity in industrial applications. The course will discuss safety, AC/DC voltages, and emphasize practical applications.

Early Childhood Education

**ECE 102      Guidance of Young Children**  
Focuses on age-appropriate guidance techniques for individual and groups of children six weeks to eight years. Topics include: how values and belief systems impact guidance decisions, promoting a prosocial environment, and understanding children's behavior. PSY 235 is strongly recommended.

**ECE 122      Env and Curr in Early Care and Ed**  
An introduction to an overview of creating physical and social environments and curriculum for children six weeks to six years in home or center-based programs. Course covers theories and relationships between physical and social space, activities, experiences, and materials. Students are introduced to the use of developmentally and culturally appropriate practices in planning, selecting, and evaluating environments and curriculum for young children.

**ECE 160      Early Childhood Practicum: Seminar**  
Provides supervised teaching of students in a school or community setting, applying what has been learned through coursework and other educational experiences. Departmental permission required. Prerequisite: All students must successfully pass a criminal background check and vaccination verification. Prior study in ECE. Corequisite: ECE 162.

**ECE 162      Early Childhood Practicum**  
Provides supervised teaching of students in a school or community setting, applying what has been learned through coursework and other educational experiences. Departmental permission required. Prerequisite: All students must successfully pass a criminal background check and vaccination verification. Prior study in ECE.

**ECE 249      Inclusion of Children w/Special Needs**  
Focuses on early intervention and early childhood special education including disability characteristics, environmental and curricular adaptation, instructional strategies, and legislative mandates. Explores ways teachers can facilitate the inclusion of young children with diverse and special needs in a child care or classroom setting. Includes the role of families in early intervention services.

**ECE 280      Coop Wk Exp: Early Childhood Education**  
On-the-job, paid or volunteer, experiences which allow for the application and development of knowledge, skills, and attitudes learned through the on-campus program so that the student can learn all aspects of the industry. Cooperative work experience is offered for variable credit based on the student's objectives. Instructor permission is required and the student must locate a job site for the course. All students must successfully pass a criminal background check.

Economics

**ECO 202      Principles of Economics: Macroeconomics**  
This course covers principles of national income, aggregate supply and demand, employment, monetary policy, recession, inflation, and macroeconomic stabilization. Basic principles of international trade and finance are also developed. Recommended: Successful completion of MTH 070 or above and WRI 121 placement.

Education

**EDU 133      Computers in Education**  
Designed to train students on the preparation and use of instructional media and materials commonly found in the public schools. Includes an introduction to computers and other new learning technologies. Helps students develop an understanding of the place and importance of these instructional tools in the learning process and how to design lessons using these materials. Corequisite: EDU 133L

**EDU 133L      Computers in Education Lab**  
Laboratory activities relating to EDU 133. Corequisite: EDU 133

**EDU 280      Coop Wk Exp: Education**  
On-the-job, paid or volunteer, experiences which allow for the application and development of knowledge, skills, and attitudes learned through the on-campus program. Cooperative work experience is offered for variable credit based on the student's objectives. Instructor permission is required. All students must successfully pass a criminal background check.

Course dates, times, and instructors are subject to change. Check [www.klamathcc.edu/classes](http://www.klamathcc.edu/classes) for the most up-to-date information!

Emergency Medical Technician

**EMT 151      Emergency Medical Technician Part 1**  
This course is the first half of a course that prepares students for the National Registry Certification and licensure in Oregon as an Emergency Medical technician. The course is designed to develop a student's skills in the recognition of symptoms of illness, injuries, and the proper procedures of emergency care. Prerequisites: MTH 060 and MTH 065 or MTH 070 and WRI 121 or placement into MTH 070 and WRI 121. Completion of Health Care Provider CPR, and all required immunizations. Prior to beginning clinical rotations, students are required to submit a criminal background check and drug screen. Corequisite: EMT 151L.

**EMT 151L      Emergency Medical Tech Part 1 Lab**  
Laboratory activities relating to EMT 151. Corequisite: EMT 151.

**EMT 152      Emergency Medical Technician Part 2**  
This is course is the second half of the course which prepares students for the National Registry certification and licensure in Oregon as an Emergency Medical Technician. This course is designed to develop a student's skills in the recognition of symptoms of illness, injuries, and the proper procedures of emergency care. NOTE: Successful course completion does not guarantee National Registry certification or licensure in the State of Oregon. Prerequisite: Permission of the Course Director is required to continue. EMT 151 and EMT 151L with a grade of "C" or better. Corequisite: EMT 152L

**EMT 152L      Emergency Medical Technician Part 2 Lab**  
Laboratory activities relating to EMT 152. Corequisite: EMT 152.

English

**ENG 105      Intro to Literature (Drama)**  
Examines dramatic literature as an art form that provokes thought and challenges social norms. Examines plays from diverse cultures and historical periods, and considers them as expressions of human experience. Corequisite: WRI 121.

**ENG 105Z      Introduction to Drama**  
The Study of plays exposes us to texts with the power to shock, inspire, enlighten, and delight; this course in drama can be an empowering and transformative journey toward keener engagement with the world, local community, and your intended path. English 105Z provides opportunities for the appreciation of drama, including deeper awareness of craft and insight into how reading plays can lead to self-enrichment. Students read a variety of types of drama, from diverse perspectives and eras, and develop their skills in discussion, literary analysis, and critical thinking. Corequisites: WRI121.

**ENG 195      Film Studies: Film as Art**  
This is an introductory course in film analysis with special emphasis on concepts related to the formal and cultural analysis of film as a dramatic art. Elements to be considered include genre, narrative, cinematography, mise en scène, editing, sound, and acting. Prerequisite: WRI 095 or WRI 121 or placement into WRI 121.

Environmental Science

**ENV 170      Environmental Science**  
Examines major environmental questions facing the world today. Includes population growth, matter and energy resources, ecosystems, pollution, and environment and society. Explores a broad range of environmental issues including sustainability, the interconnection of the economy with ecosystem, short-term versus long-term gains, and the trade-offs in balancing problems and solutions. Recommended: Placement into WRI 095. Corequisite: ENV 170L.

**ENV 170L      Environmental Science Lab**  
Laboratory activities relating to ENV 170. Corequisite: ENV 170.

**ENV 241      Forest Ecology**  
Basic physiological characteristics of trees, succession, climax, and related concepts. Vegetation classification, stand structure, diversity, competition, growth, soils-forests interactions, biomass and nutrient distribution, energy relations, nutrient element dynamics, and ecology of disturbances. Corequisite: ENV 241L.

**ENV 241L      Forest Ecology Lab**  
Laboratory activities related to ENV 241. Corequisite: ENV 241.

Emergency Response and Operations

**ERO 125      Hazardous Materials Awareness and Operations**  
Designed to prepare individuals to safely respond to hazardous materials emergencies. Individuals will learn to analyze an incident, detect the presence of hazardous materials, survey the scene, collect hazard information from the DOT Emergency Response Guidebook, implement actions consistent with standard operating procedures, initiate protective actions, and initiate the notification process.

Fire Science (Structural)

**FRP 122      Fire Codes, Related Ordinances and Inspection**  
Provides fundamental knowledge relating to the field of fire prevention. Includes history and philosophy of fire prevention; organization and operation of a fire prevention division; use and application of codes and standards; plans review; fire inspection; fire and life safety education. Recommended: FRP 111, FRP 111L.

**FRP 233      Firefighter Safety and Survival**  
Introduces students to basic principles and history related to the national firefighter life safety initiatives focusing on the need for cultural and behavior change throughout the emergency services. Prerequisite: FRP 111 and FRP 111L.



FRP 281      **Introductory Work Experience – Career Fire District**

This course compliments the experience gained in FRP 282. The course introduces the student to a Career Fire Protection District’s work environment. The student participates in four 8-hour shifts with cooperating Career Fire Protection Districts under District personnel supervision. During their shift rotations, students will learn about career firehouse organization and emergency response protocols, participate in firehouse training sessions, assist with equipment maintenance and ride along on emergency responses as an observer. Prerequisites: ERO 100, FRP 111, FRP 111L.

**General Agriculture**

GAG 280      **Coop Wk Exp: General Agriculture**

On-the-job, paid or volunteer, experiences which allow for the application and development of knowledge, skills, and attitudes learned through the on-campus program so that the student can learn all aspects of the industry. Cooperative work experience is offered for variable credit based on the student’s objectives. Instructor permission is required and the student must locate a job site for the course.

**Geography**

GEO 106      **Human Cultural Geography I**

Introduces students to the science of human geography. Concepts are applied to a variety of Western regions including the Klamath Basin, the Americas, and Western Europe. Recommended: WRI 121 placement.

**Health Studies**

HEA 100      **Nursing Assistant I**

This course provides the foundation for student success with state certification testing, workforce training aimed at entry-level positions. Students will practice learned techniques in personal care, dining, emergency care, rehabilitation and interpersonal skills with emphasis on safety, infection control, legal and ethical considerations while in the acute and sub-acute facilities. Successful course completion does not guarantee state certification. Corequisites: HEA 100L and HEA 100C.

HEA 100C      **Nursing Assistant Clinical**

This course provides the foundation for student success with state certification testing, workforce training aimed at entry-level positions. Students will practice learned techniques in personal care, dining, emergency care, rehabilitation and interpersonal skills with emphasis on safety, infection control, legal and ethical considerations while in the acute and sub-acute facilities. Successful course completion does not guarantee state certification. Corequisites: HEA 100 and HEA 100L.

**Health Information Management**

HIM 106      **Health Data Content & Structure II**

This course covers the importance of accurate and timely health record documentation. Addresses fundamental health record documentation requirements and practices in a variety of healthcare settings. Topics include information governance, electronic health records and health IT, and clinical documentation improvement, and real-world, hands-on experience with web-based virtual lab. Prerequisite: HIM 104.

HIM 131      **Medical Coding**

This course is the introduction to developing an understanding of coding and classification systems, particularly ICD-9-CM, ICD-10-CM, and CPT, in order to assign valid diagnostic and procedure codes. Students will analyze current regulations and established guidelines in clinical classification systems; determine the diagnoses and procedures that require coding for acute care (inpatient) and outpatient services; interpret conventions, formats, instructional notations, tables, and definitions of the classification system to select diagnoses, conditions, problems or other reasons for the encounter that require coding to include the procedures/services that require coding; and determine sequence of diagnoses and procedures. Recommended: MDA 101 and co-enrollment or completion of MDA 128 or BIO 231.

HIM 212      **Intro to Pharmaceuticals**

This course covers appropriate medication use, the effects of medication, dangers and precautions, and routes of administration. Reviews common prescription abbreviation, forms of medications, and basic drug categories.

HIM 275      **Quality Improvement in Healthcare**

This course investigates application and analysis of quality management, utilization management, risk management, and their related studies. Also covered is the analysis of clinical data to identify trends that demonstrate quality, safety, and effectiveness of the healthcare system. Abstraction of data for facility-wide quality management and performance improvement programs is also presented. In addition review of registries (cancer, disease, diabetes), indexes, and databases are attained.

HIM 280      **Coop Wk Exp: HIM Prof Prac II**

Provides practicum experience in health information management functions utilizing medical record technologies in a classroom simulation and/or under the direct supervision of facility personnel in local health care facilities.

HIM 291      **Exam Review: RHIT**

Confidently prepare for the RHIT exam with Registered Health Information Technician (RHIT) Exam Preparation textbook. The exam experience is a simulation in the textbook with 850 multiple-choice questions, including mock exams and assisting with completing the exam application. Prerequisite: Completion of the HIM AAS degree is required.

HIM 292      **Exam Prep: EHR**

This class will help prepare students for the examination from National Healthcareer Association (NHA). Students will review core curriculum identified by the National Healthcareer Association for successful application in Billing and Coding Specialist. Tutorials will be used throughout the class to prepare students to complete the practice assessment exam administered to familiarize students with the types of questions and formats encountered on the exams. Completion of the HIM AAS degree or paper work for petition to graduate must be completed before the student is allowed complete the exam(s). The exam will be administered at KCC. The fee per tutorial and one exam attempt is included in course fees. Recommended: Completion of the HIM AAS or the Medical Administrative Assistant Career Pathway Certificate.

HIM 293      **Exam Review: CBS**

This review will help prepare students for the national examination in coding and billing. Students will review core curriculum as essential domains of learning. Practice exams will be administered to familiarize students with the types of questions and formats encountered on these exams. Completion of the HIM AAS degree is required.

**Health & Physical Education**

HPE 207      **Stress Management**

Students learn the basis for various components of stress and how to recognize and cope appropriately with physical, occupational, social, school, and environmental stressors. The course emphasizes achieving lifestyle balance and shows students how to develop and practice physiologic relaxation techniques and stress reduction methods.

HPE 225      **Nutrition**

A study of food and nutrition, including how they relate to health and disease. Students are exposed to basic nutrition including nutrient needs, how nutrients function in the body, energy balance, and diet planning for various medical conditions. Provides an in-depth look at current topics and the American diet.

HPE 295      **Health & Fitness for Life**

Explores the role of wellness, physical fitness, stress, nutrition, and cardiovascular health in promoting an individual’s health and well-being. Fitness testing and fitness lab are included.

**History**

HST 102      **Western Civilization II: 1000 to 1800**

Studies early Modern Europe including Renaissance, Reformation, Scientific Revolution, and the French Revolution. HST 101, 102, and 103 may be taken out of sequence. Recommended: WRI 121 placement.

HST 201      **United States History I: Colonial Period to 1840**

Surveys North American history from the Age of Exploration to 1840. Studies include political, social, and economic trends and events. HST 201, 202, and 203 may be taken out of sequence. Recommended: WRI 121 placement.

**Medical**

MDA 101      **Medical Terminology I**

Covers medical terminology prefixes, suffixes, word roots, and abbreviations by body system.

MDA 102      **Medical Terminology II**

Covers medical terminology prefixes, suffixes, word roots, and abbreviations by body system. Prerequisite: MDA 101 with a grade of “C” or better.

MDA 128      **Anatomy & Physiology for Health Science Professional I**

Provides the conceptual framework, factual knowledge, and analytical skills needed to pursue a career in Allied Health. Students will examine anatomical terminology, basic chemistry, cell structure and functions, tissues, glands, and membranes; disease and disease producing organisms; integumentary system; skeletal system; muscular systems; nervous system: including the spinal cords, spinal nerves, the brain, and the cranial nerves; and the sensory system. Note: This course will not transfer as a science course. Recommended: MDA 101.

MDA 129      **Anatomy & Physiology for Health Science Professional II**

Provides the conceptual framework, factual knowledge, and analytical skills needed to pursue a career in Allied Health. Students will examine the endocrine system; blood: the heart and heart disease; including blood vessels and circulation; lymphatic system and tissue; respiratory system; digestive system; metabolism, nutrition and body temperature; body fluids; urinary system; male and female reproductive system; development and birth; and heredity and heredity disease. Note: This course will not transfer as a science course. Recommended: MDA 102. Prerequisite: MDA 128.

**Manufacturing Engineering Technology**

MET 102      **Basic Engineering Materials**

Introduces materials and metallurgy to include structure, selection, and use. Survey of materials used in industry and their physical and chemical attributes as they relate to properties, corrosion, and engineering applications. Major consideration given to metal alloys. Introduction to polymers, ceramics, and composites included. Recommended: WLD 101.

MET 241      **CAD for Mechanical Design I**

Instruction and practice of AutoCAD (mechanical) software in 2D environment. Utilize 2D software practice to develop into an apprentice level wireframe computer aided design (CAD) technician. Corequisite: MET 241L.

MET 241L      **CAD for Mechanical Design I Lab**

Laboratory activities related to MET 241. Corequisite: MET 241.

MET 242      **CAD for Mechanical Design II**

Instruction and practice of AutoCAD (mechanical) software in 3D environment. Utilize 3D software, practice to develop into an apprentice level computer aided design (CAD) technician. Prerequisite: MET 241. Corequisite: MET242L.

MET 242L      **CAD for Mechanical Design II Lab**

Laboratory activities related to MET 242. Corequisite: MET 242.



**MET 244 CAD for Mechanical Design – Solid Modeling**  
Instruction and practice of Solid Modeling (SM) using Autodesk Inventor® (A/I) software in solid modeling design environment. Utilize 3D solid modeling practice to develop into an apprentice level computer aided design (CAD) technician. Prerequisite: MET 241. Corequisite: MET 244L.

**MET 244L CAD for Mechanical Design – Solid Modeling**  
Laboratory activities related to MET 244. Corequisite: MET 244.

Manufacturing

**MFG 120 Manufacturing Process I**  
An introductory course in metal removal processes emphasizing drilling, milling, and lathe processes. Includes tool-bit grinding. Emphasis on production speeds and feeds. All lab practice will be on conventional machines. Corequisite: MFG 120L.

**MFG 120L Manufacturing Process I Lab**  
Laboratory activities related to MFG 120. Corequisite: MFG 120.

**MFG 221 Manufacturing Process II - CNC**  
An introductory course in metal removal processes emphasizing drilling, milling, and lathe processes. Will include tool grinding. Emphasis on computer numerically controlled (CNC) concept and machining. Prerequisite: MFG 120. Corequisite: MFG 221L.

**MFG 221L Manufacturing Process II - CNC Lab**  
Laboratory activities related to MFG 221. Corequisite: MFG 221.

**MFG 280 Coop Wk Exp: Manufacturing Engineering**  
On-the-job (paid or volunteer) experiences which allow for the application and development of knowledge, skills, and attitudes learned through the on-campus program. Cooperative work experience is offered for variable credit based on the student’s objectives. Instructor permission is required.

Multimedia

**MMT 239 Digital Drawing/Adobe Illustrator**  
Introduces the basics of digital illustration working with both vector graphics and photo editing. Applies tablet technology and screen-based drawing to create digitized graphic elements such as image header, sidebar, banner, logo, and other elements commonly used design. Uses various software platforms, but focuses mainly on Adobe Digital Illustrator. Recommended: ART 131. Corequisite: MMT 239L.

**MMT 239L Digital Draw/Adobe Illustrator Lab**  
Laboratory activities related to MMT 239. Corequisite: MMT 239.

**MMT 241 Graphic Design for the Web**  
This intermediate-level digital design course enables students to create web-based graphic and media solutions. Primary software programs include Adobe CS6 Illustrator (for illustrating) and Photoshop (for graphics production and image editing). Students build upon and apply previously learned skills that are specific for business marketing and digital communications and create digital art assets such as logos, buttons, headers, splash screens, infographics and various design and editing techniques for vector graphics, bitmap images, and photos. Both programs are used to integrate Photoshop and Illustrator files for web applications. Recommended: MMT 239 and MMT 240. Corequisite: MMT 241L.

**MMT 241L Graphic Design for the Web Lab**  
Laboratory activities relating to MMT 241. Corequisite: MMT 241.

**MMT 261 Advanced Video Editing**  
Continues video production at an intermediate level and includes creation in multiple genres of short-form videos. While applying storytelling and narrative techniques, students create and produce one-on-one interviews, on-the-street interviews, product demos, how-to videos, YouTube videos, web cam videos, and creative storytelling videos. Production equipment used includes digital cameras, lighting, microphones, backdrops, and apply multiple editing techniques. Prerequisites: MMT 260. Corequisite: MMT 261L.

**MMT 261L Advanced Video Editing Lab**  
Laboratory activities relating to MMT 261. Corequisite: MMT 261.

**MMT 271 Exploring Device-Based Augmented Reality**

This course is designed to teach learners how to implement augmented reality using AR software. We will explore how to create AR markers and add content to those markers. The class will be project based with each student assigned a project to complete for the term. This class is aimed at individuals wishing to learn about AR in a practical environment. The learner is expected to be familiar with photography and creating video content. Exposure to the Unity software development environment is helpful but not required.

Mathematics

**MTH 010 Basic Math**  
Whole number and integer arithmetic. Develops skills with mathematical operations using whole numbers, integers, fractions, and decimals. Recommended: If available, students enrolling in this class are strongly encouraged to co-enroll in a section of CGS 010.

**MTH 020 Prealgebra**  
This course will cover ratios, rates, proportion, percent, measurement, and introduces the concepts of basic statistics, charts, and graphs. In addition the basic concepts of elementary algebra will be covered. Scientific calculator with fraction capabilities required. Prerequisite: MTH 010 or placement into MTH 020.

**MTH 052 Math Review for Higher Placement**  
Students will use computer software to cover material from MTH 010 to MTH 095. This class will meet three hours per week in a computer lab. Class attendance is mandatory. Goals and pace will be set for the individual student by the instructor. Successful completion requires the student to place at least one level higher in the developmental math sequence. This course is graded on a pass (P) / no pass (NP) basis and is not computed in the GPA. Recommended: Recent placement into MTH 010, MTH 020, or MTH 070 with remaining access to MyMathTest placement test.

**MTH 070 Elementary Algebra**  
The following topics are covered: Fundamental properties of algebra, solutions of linear and quadratic equations, order of operations, rules of exponents, arithmetic operations of polynomials, factoring of polynomials, the two-coordinate graphing plane, point plotting, graphing of linear equations, and basic geometric and statistical formulas and problem solving. Concepts will be introduced numerically, graphically, and symbolically. Results will be communicated in oral and written form. Scientific calculator with fraction capabilities required. Prerequisite: MTH 020 with a grade of “C” or better or placement into MTH 070.

**MTH 085 Applied Math for Technicians**  
An applied math class for Automotive and Diesel Technology covering the following topics: Whole number and integer arithmetic, ratios and proportions, percents, measurement, informal geometry, solving linear equations in one variable, application of formulas, and problem solving. Results will be communicated in oral and written form. Scientific calculator with fraction capabilities required. Prerequisite: Acceptance into either the Automotive Technology or Diesel Technology program. Prerequisite: MTH 010 with a grade of “C” or better or placement into MTH 020.

**MTH 095 Intermediate Algebra**  
The following topics are covered: Fundamentals of algebra, factoring of polynomials, solving quadratics using various techniques, simplifying of rational expressions, solving rational equations, simplifying of radical expressions, solving radical equations, definition of functions, evaluation of functions, and graphing of quadratics. Word problems will be included throughout the course. Concepts will be introduced numerically, graphically, and symbolically. Results will be communicated in oral and written form. Scientific calculator with fraction capabilities required. Prerequisite: MTH 060 and MTH 065 with a grade of “C” or better or MTH 070 with a grade of “C” or better or placement into MTH 095.

**MTH 105 Math in Society**  
Math in Society is a rigorous mathematics course designed for liberal arts and humanities majors. The course provides a solid foundation in quantitative reasoning, symbolic reasoning, and problem-solving techniques needed to be a productive, contributing citizen in the 21st century. Prerequisites: MTH 065 or MTH 070 or MTH 095 or MTH 098 or placement into MTH 105 and WRI 095 or WRI 121 or placement into WRI 121.

**MTH 105Z Math in Society**  
An exploration of present-day applications of mathematics focused on developing numeracy. Major topics include quantitative reasoning and problem-solving strategies, probability and statistics, and financial mathematics; these topics are to be weighted approximately equally. This course emphasizes mathematical literacy and communication, relevant everyday applications, and the appropriate use of current technology. Prerequisites: MTH 065 or MTH 070 or MTH 095 or MTH 098 or placement into MTH 105 and WRI 095 or WRI 121 or placement into WRI 121.

**MTH 111 College Algebra**  
The algebraic operations dealing with linear, quadratic, and polynomial equations and functions. Introduces graphs of functions, linear, quadratic, polynomial, rational, exponential, and logarithmic, and develops the concepts of exponential and logarithmic functions. Develops skills in systems of equations. Concepts will be introduced numerically, graphically, and symbolically. Results will be communicated in oral and written form. Prerequisite: MTH 095 with a grade of “C” or better or placement into MTH 111.

**MTH 112Z Precalculus I: Functions**  
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. Prerequisite: MTH 095 with a grade of “C” or better or placement into MTH 111.

**MTH 112 Elementary Functions**  
The trigonometric ratios and their applications with special emphasis on identities, trigonometric equations, vectors, and complex numbers. Prerequisite: MTH 111 with a grade of “C” or better.

**MTH 112Z Precalculus II: Trigonometry**  
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. Prerequisite: MTH 111 with a grade of “C” or better.

**MTH 212 Foundations of Elementary Math II**  
This course is for prospective K-8 teachers. Emphasizes proportions and algorithms of rational numbers (fractions, decimals, percent), integers, the sets of irrational and real numbers, and simple probability and statistics. Prerequisite: MTH 095 with a grade of “C” or better or MTH 111 with a grade of “C” or better or placement into MTH 111.



**MTH 243      Statistics I**  
Covers concepts of elementary probability, frequency distributions and their graphs, probability distributions, descriptive statistics, confidence interval estimation, and interpretation of statistical results. Prerequisite: MTH 095 with a grade of “C” or better or MTH 105 with a grade of “C” or better or MTH 111 with a grade of “C” or better or placement into MTH 111.

**MTH 251      Calculus I**  
Computation techniques for calculating the limit of a function. Computational techniques for calculating and applications of the derivative of a function. Prerequisite: MTH 112 with a grade of “C” or better.

**MTH 252      Calculus II**  
Computational techniques for and applications of definite and indefinite integrals. Prerequisite: MTH 251 with a grade of “C” or better.

**Music**

**MUS 206      History of Rock Music**  
Examines rock music’s roots and development, its innovators and significant events through a cultural, as well as musical, perspective. Prerequisite: WRI 121.

**MUS 206M      History of Rock Music**  
Examines rock music’s roots and development, its innovators and significant events through a cultural, as well as musical, perspective. Prerequisite: WRI 121.

**MUS 265      Music for Teachers**  
Explores a variety of musical resources and activities appropriate for use in the classroom. This course will emphasize developing skills in understanding, presenting, and interpreting music while developing an awareness of the “how to” and “why” of teaching music to children.

**Nursing**

**NSG 111      Health & Illness Concepts I (didactic)**  
This course introduces the nursing student to the concepts of health and illness across the lifespan: peri-operative, infection, fluid and electrolytes, acid/base balance, oxygenation, perfusion, elimination, metabolism, sensory/perception, mobility, cellular regulation, and cognition. Principles of evidence-based nursing practice will include the identification of clinical practice problems, the evaluation of available evidence, and the integration of evidence with clinical expertise and patient preferences. Corequisite: NSG 111C.

**NSG 111C      Health & Illness Concepts I (application)**  
The focus of this course is to provide safe, evidence-based nursing care for patients with stable or non-complex acute conditions or post-operative conditions with an emphasis on health promotion and disease prevention across the lifespan and in a variety of settings. Additional caring interventions will be introduced in the laboratory and clinical settings. Corequisite: NSG 111.

**NSG 211      Health & Illness Concepts IV (didactic)**  
The focus of this course is a continuation of the nursing care and management of patients with critical, or acute and complex healthcare needs that affect individuals across the lifespan. The course applies prior nursing concepts with a focus on critical and rapidly changing client conditions, collaborating with the interdisciplinary team, and incorporating aspects of supervision. Prerequisite: NSG 210 and NSG 210C. Corequisite: NSG 211C.

**NSG 211C      Health & Illness Concepts IV (application)**  
The focus of this course is to actively collaborate with the interdisciplinary team to provide safe, evidence-based nursing care to two or more patients with acute, complex conditions, while incorporating appropriate assignment of tasks to unlicensed assistive personnel. Corequisite: NSG 211.

**Physical Education**

**PED 181A      Beginning Weight Training**  
Stresses the proper techniques of weight lifting and the development of muscular strength and endurance. Individual programs developed which allow for body and strength differences and safety in lifting.

**PED 181B      Intermediate Weight Training**  
A total body conditioning course that emphasizes intense free weight exercises set to music and incorporates core conditioning. Featured equipment includes dumbbells, body bar, resistance bands, and body weight. Focus placed on proper techniques of weight lifting and the development of muscular strength and endurance. Individual programs developed which allow for body and strength differences and safety in lifting.

**PED 182C      Beginning Fitness & Walking**  
Beginning level, self-paced walking programs and a variety of conditioning exercises for specific body areas. Provides instruction for integrating walking into a lifetime fitness program.

**PED 185Y      Yoga/Pilates Fusion**  
Introduces the values and skills of Pilates and yoga. Includes basic Pilates and yoga philosophy and exercises for increased flexibility, improved health, relaxation, and reduced stress in daily living.

**PED 186E      Ballroom Dance II**  
Continues the development of skills in ballroom dance at an intermediate level as well as enriching the depth of the dance technique and complexity of choreography. Focus placed on appropriate partnering in order to lead or follow, rhythm, style, and phrasing. Dances may include waltz, foxtrot, tango, quickstep, rumba, cha-cha, swing, samba, jive, and nightclub two step. Prerequisite: PED 186D.

**Philosophy**

**PHL 103      Critical Thinking**  
Focuses on improving critical thinking, reasoning, assessment, and argumentation abilities in the personal, professional, and academic arenas. Emphasizes practical methods for developing arguments—rhetorical methods and tools of persuasion—as well as evaluating the validity of existing arguments, editorials, propaganda, and advertisements. Prerequisite: WRI 095 or WRI 121 or placement into WRI 121.

**PHL 204      Philosophy of Religion**  
Explores various philosophical perspectives on religion and issues traditionally taken up by religion, including the existence and attributes of God, faith, reason and mysticism, religion and science, religion and morality, religious language, and life after death. Prerequisite: WRI 121.

**PHL 204M      Philosophy of Religion**  
Explores various philosophical perspectives on religion and issues traditionally taken up by religion, including the existence and attributes of God, faith, reason and mysticism, religion and science, religion and morality, religious language, and life after death. Prerequisite: WRI 121.

**PHL 209      Business Ethics**  
Designed primarily for students of business and related fields, this course examines the ethical issues that arise in several aspects of business. Historical and contemporary ethical theories are used to examine business practices in management, the use of computers, marketing, accounting, and international industry and commerce. May also address social and environmental impacts as corporate versus individual responsibilities. Prerequisite: WRI 121.

**Psychology**

**PSY 101      Psychology & Human Relations**  
Focuses on practical and personal applications of psychological principles. Encourages applications of psychological principles to daily living and to human interactions such as work, leisure, school, and relationships.

**PSY 201      General Psychology I**  
Introduction to the principles and applications of psychology. Topics include scientific methodology, learning, memory, and cognitive processes. Prerequisite: WRI 121. Note—the 200 psychology series does not have to be taken in order.

**PSY 201A      General Psychology I**  
Introduction to the general principles of psychology. Topics include history, research methods, brain and behavior, genes and environment, human development, and sensing and perception. Note—the introduction to psychology series does not have to be taken in order. PSY 201A is the recommended first class in the series. Prerequisite: WRI 121.

**PSY 201Z      Introduction to Psychology I**  
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. Prerequisite: WRI 121

**PSY 202      General Psychology II**  
Introduction to the topics and applications of psychology. Topics include the brain and behavior, consciousness, sensation and perception, and health psychology. Prerequisite: WRI 121. Note—the 200 psychology series does not have to be taken in order.

**PSY 202A      General Psychology II**  
Introduction to the general principles of psychology. Topics include varieties of consciousness, learning, memory, thinking, language and intelligence, and motivation. Note—the introduction to psychology series does not have to be taken in order. Recommended: PSY 201A. Prerequisite: WRI 121.

**PSY 202M      Introduction to Psychology II**  
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. Prerequisite: WRI 121.

**PSY 202Z      Introduction to Psychology II**  
Introduction to the science and application of psychology. Emphasis will be placed on psychological concepts, theories, and principles related to: personality, social psychology, health and well-being, motivation and emotion, disorders, therapies, lifespan development, and related topics. Recommended: PSY 201Z. Prerequisite: WRI 121.

**PSY 225      Abnormal Psychology I**  
Overview of biological, psychological, and social causes of abnormal behavior. Specific topics include models, classification system, and assessment of abnormal behavior. Anxiety, mood, personality, and stress disorders are covered during the course of the term. Recommended: PSY 201A, PSY 202A, and PSY 203A or PSY 201M and PSY 202M. Prerequisite: WRI 121.

**PSY 228      Positive Psychology**  
This course explores the components necessary to help a person flourish in their environment by addressing the biopsychosocial aspects that contribute to positive behaviors and human strengths. Material will provide an overview of the theories of happiness, importance of self-care and positive social cognitions, utilizing strengths in personal and professional venues, and means of achieving healthy relationships personally and with one’s community. Prerequisite: WRI 121 or placement into WRI 121.

**PSY 235      Human Growth & Development I**  
A biosocial study of human development from conception to adolescence. Discusses the biological and social processes, i.e., cognition, personality, emotion, and social, affecting the developing child. Applications to health care, family, and education are discussed. Recommended: Previous coursework in psychology.

**PSY 236      Human Growth & Development II**  
A psychological study of the continuing development of the human being from adolescence through old age and death. Discussion focuses on the social and healthcare issues of adulthood. Applications to healthcare, family, and social policy. Prerequisite: PSY 235.

**PSY 280      Coop Wk Exp: Psychology**  
On-the-job, paid or volunteer, experiences which allow for the application and development of knowledge, skills and attitudes learned through the on-campus program so that the student can learn all aspects of the industry. Cooperative work experience is offered for variable credit based on the student’s objectives. Instructor permission is required and the student must locate a job site for the course.

**Spanish**

**SPA 101      First Year Spanish I**  
First in a three-course series designed to develop basic communication skills in oral and written Spanish. Introduces learners to the rich culture of the Spanish-speaking world, including listening, speaking, reading, writing, pronunciation, structure, vocabulary, and culture.

**SPA 102      First Year Spanish II**  
Second in a three-course series designed to develop basic communication skills in oral and written Spanish. Introduces learners to the rich culture of the Spanish-speaking world, including listening, speaking, reading, writing, pronunciation, structure, vocabulary, and culture. Prerequisite: SPA 101.



Speech

**SPE 111 Fundamentals of Speech**  
Prepare and present original speeches with emphasis on organization and outlining. Present informative, persuasive, and other types of speeches. Prerequisite: WRI 121.

**SPE 111M Fundamentals of Speech**  
Prepare and present original speeches with emphasis on organization and outlining. Present informative, persuasive, and other types of speeches. Prerequisite: WRI 121.

Statistics

**STA 243Z Elementary Statistics I**  
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. Prerequisite: MTH 095 with a grade of “C” or better or MTH 105 with a grade of “C” or better or MTH 111 with a grade of “C” or better or placement into MTH 111.

Surgical Technology

**SUR 104 Surgical Equipment and Biomedical Safety**  
This course explores the surgical technologist’s role with regard to equipment and supplies utilized within the operating room. Topics covered include electrical, fire, biological, and chemical hazards in the operative area; properties of physics; surgical department designs; and physical components of the surgical suite. Students will identify common equipment by type, name, and function. Students will examine support services and regulatory agencies with regard to their role in patient safety. Prerequisites: SUR 101 and 101L with a grade of “C” or better. Corequisites: SUR104L.

**SUR 104L Surgical Equipment and Biomedical Safety Lab**  
This is a laboratory course to practice and demonstrate the principles and techniques regarding equipment and supplies utilized within the operating room. Students will identify common equipment and supplies by type, name, and function and will demonstrate proper care and handling. Students will apply principles of robotics and physics to safe patient care. Prerequisites: SUR 101 and 101L with a grade of “C” or better. Corequisites: SUR 104.

Welding

**WLD 101 Welding Processes & Applications**  
Introduction to Welding covers flat and horizontal positions with oxygen–acetylene welding OAW, stick SMAW, Mig GMAW on mild steel, Tig GTAW on aluminum, safety, setting up and shutdown. Suggested Corequisite: WLD 114.

**WLD 114 Shielded Metal Arc Weld: Mild Steel I**  
Develops knowledge and manipulative skills in the use of E7018 mild steel electrodes when performing various welds in the flat, horizontal, and vertical positions. Corequisite: WLD 101.

**WLD 115 Shielded Metal Arc Weld: Mild Steel II**  
Develop intermediate and advanced skills in shielded metal arc welding for success in the metal fabrication industry. Includes preparation of joints for proper setup and design using 1/4 inch and thicker mild steel. Prerequisite: WLD 114. Corequisite: WLD 253.

**WLD 131 Gas Metal Arc Welding/Flux Cored Arc Welding**  
Develops knowledge and manipulative skills welding with solid wire on ferrous and non-ferrous materials using short arc in all four positions and spray arc in the flat and horizontal positions. Develops knowledge and manipulative skills welding with Flux-Cored Arc Welding on mild steel in all positions. Prerequisite: WLD 101.

**WLD 221 Gas Tungsten Arc Weld: Stainless Steel/Aluminum**  
Develops knowledge and manipulative skills while welding common joints in all positions on stainless steel and aluminum with the GTAW process. Prerequisite: WLD 101.

**WLD 253 Welding Cert Practice 3/8 or 1 Inch Mild Steel**  
Practice for the American Welding Society Mild Steel Welding Certification tests using mild steel electrodes in the horizontal, vertical, and overhead positions. Prerequisite: WLD 114. Corequisite: WLD 115

**WLD 254 GMAW/FCAW Certification Practice**  
Practice for the American Welding Society Structural Qualification tests using GMAW/FCAW mild steel electrodes in the horizontal, vertical, and overhead positions. Prerequisites: WLD 114 and WLD 131.

**WLD 255 GTAW Certification Practice**  
Practice for American Welding Society Qualification tests using the gas tungsten arc welding process on aluminum and stainless steel in the horizontal, vertical, and overhead positions. Prerequisites: WLD 101 and WLD 221.

**WLD 256 Pipe Certification Practice**  
Practice for American Welding Society Qualification tests in pipe. Prerequisites: WLD 101, WLD 114, WLD 115, and WLD 253.

**WLD 280 Coop Wk Exp: Welding**  
On-the-job, paid or volunteer, experiences which allow for the application and development of knowledge, skills, and attitudes learned through the on-campus program. Cooperative work experience is offered for variable credit based on the student’s objectives. Prerequisite: Instructor permission is required.

Work Experience

**TEX 280 Coop Wk Exp: Seminar**  
Introduces students to the selection processes and procedures necessary to gain successful employment. Topics covered include: Job search techniques, networking, resumés, cover letters, thank-you letters, and interview techniques. Recommended: To be taken near completion of degree or certificate. Prerequisites: WRI 117 and WRI 121.

Writing

**WRI 095 Intro to Expository Writing**  
Introduces college-level skills in writing paragraphs, essays, and reading critically. Students learn to revise for clarity, structural integrity, and correct grammar. Prerequisite: WRI 090 with a grade of “C” or better or placement into WRI 095.

**WRI 100 Co-Requisite Writing**  
This course provides the support necessary for students to succeed in writing-intensive classes. It is mandatory for students who place in WRI 90 to enroll in WRI 95 and students who place in WRI 95 to enroll in WRI 121. The course is also an elective for students who need additional support to be successful in other courses, such as WRI 122, WRI 227, and discipline-specific courses. This course is graded on a pass (P) / no pass (NP) basis and is not computed in the GPA.

**WRI 114 Intro to Electronic Research**  
Introduction to college-level electronic research, developing search strategies, selecting and evaluating appropriate sources, documentation and citation, and a thorough understanding of the economic, legal, ethical, and social issues surrounding electronic information retrieval. Recommended: WRI 095.

**WRI 121 English Composition I**  
Develops skills in expository writing with appropriate documentation, analytical reading, and critical thinking. Students compose several essays using a variety of strategies to present evidence in support of a thesis. Prerequisite: WRI 095 with a grade of “C” or better or placement into WRI 121.

**WRI 121M Composition I**  
WR 121M 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. Prerequisite: WRI 095 with a grade of “C” or better or placement into WRI 121.

**WRI 121Z Composition I**  
WRI 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. Prerequisite: WRI 095 with a grade of “C” or better or placement into WRI 121.

**WRI 122 English Composition II**  
Focuses on argument as a means of inquiry, clear and appropriate writing style, and critical reading. Explores ideas and issues through discussion and writing. Students compose analytical and argumentative essays with appropriate documentation. Prerequisite: WRI 121 with a grade of “C” or better.

**WRI 122M English Composition II**  
Focuses on argument as a means of inquiry, clear and appropriate writing style, and critical reading. Explores ideas and issues through discussion and writing. Students compose analytical and argumentative essays with appropriate documentation. Prerequisite: WRI 121 with a grade of “C” or better.

**WRI 122Z Composition II**  
WRI 122Z builds on concepts and processes emphasized in WRI 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. Prerequisite: WRI 121 with a grade of “C” or better.

**WRI 227 Technical Communication**  
Introduces technical and professional communications. Emphasizes precise use of language and graphics to communicate complex technical and procedural information safely, legally, and ethically. Prerequisite: WRI 121 with a grade of “B” or better or WRI 122 with a grade of “C” or better.

**WRI 227Z Technical Writing**  
WRI 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. Prerequisite: WRI 121 with a grade of “B” or better or WRI 122 with a grade of “C” or better.

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# Emergency Response and Operations (ERO) Program

## EMT Emphasis

- Understand the roles and responsibilities of the EMS Provider in a variety of rescue situations, including demonstration of safety and defensive driving techniques in the operation of an emergency vehicle.
- Perform a comprehensive patient assessment to articulate and implement a treatment plan for a variety of medical and traumatic emergencies.
- Utilize evidence-based practices along with quality improvement to facilitate the delivery of safe care for both medical and traumatic emergencies.
- Implement self-care strategies to address the impact of emotional and physical stress on emergency providers while demonstrating workplace expectations for attendance, safety, conduct, and professionalism.
- Demonstrate leadership, teamwork, and decision-making in managing small and large-scale emergency incidents.
- Utilize therapeutic and professional communication skills with various interactions with other healthcare professionals and patients/families.



# Four Program Emphases

with numerous career pathways to choose from



## Criminal Justice Emphasis

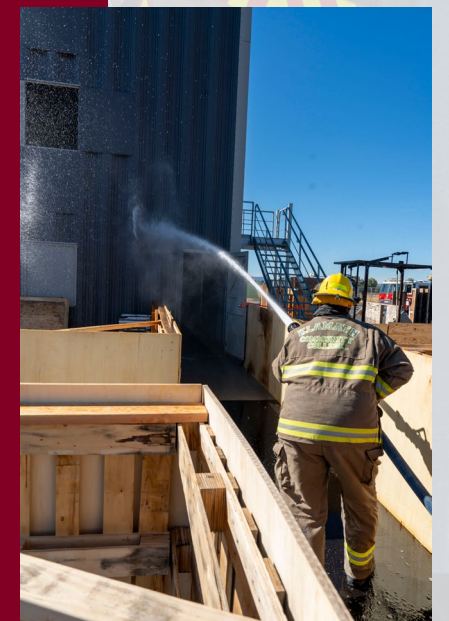
- Explain the criminal justice system in terms of how various elements interact to accomplish the mission of the criminal justice system.
- Interpret case law and statutes pertaining to specific criminal justice roles.
- Describe the constitutional rights of citizens, offenders, and victims as they apply to state, federal, and procedural laws.
- Identify legal and moral responsibilities of criminal justice professionals as they relate to cultural diversity and establishing positive community relationships.
- Describe the dynamics of interviews and interrogations to as they relate to conducting effective investigations.
- Recognize behaviors that indicate substance abuse and/or mental health issues during encounters with individuals.



# Structural Fire Emphasis

## Wildland Fire Emphasis

- Acquire the requisite knowledge, skills, and experience to become certified and pursue careers in public safety and emergency services.
- Explain the history, mission, organizational culture, operational procedures and systems, and certification requirements of public safety and emergency services organizations.
- Proficient in receiving and relaying emergency and non-emergency communication and responding to emergency calls.
- Apply personal and team safety and are trained and proficient in using personal protective equipment and safety protocols.
- Administer and are proficient in performing the necessary actions to ensure life safety, control urgent situations, and conserve property at an emergency scene.
- Correlate and are proficient in performing the necessary preparedness and maintenance actions to assure emergency response readiness.





# EMERGENCY RESPONSE AND OPERATIONS FIRE TRAINING ACADEMY

KCC is home to the Klamath Regional Training Center, which includes the Emergency Response and Operations Program for students. ERO includes three disciplines: Structure Fire; Wildland Fire and EMT training. Students in the program can get certificates for **Firefighter I** which consists of 8 credits: six credits in the lab and 192 hours of hand-on training, plus two hours online for lectures. They face a gauntlet of physical and mental tasks during the 11-week course. It is the first step for a person to becoming a Firefighter EMT and/or a Firefighter Paramedic.

