

# Syllabus for AT-10 Intro to Auto Tech

### **Course Information**

Semester & Year: Fall 2024

Course ID and Section number: AT-10-E7419

Instructor's name: Ernest Shull

Day and time of required meetings: Tuesday & Thursday 8:15AM – 12:35PM

Location: AT-128 Course units: 4

### **Instructor Contact Information**

Office location or Online: AT-122 Office hours: Open Door Policy Phone number: 707-476-4221

Email address: Ernest-Shull@redwoods.edu

Communication notes: Best Communication is through Email.

# **Catalog Description**

The Maintenance and Light Repair (MLR) certificate is part of the Automotive Technology Program. It is designed as an entry level certificate, recognizing the knowledge and skills industry has identified as required for employment for entry level technicians. The development of this certificate will provide a pathway of stackable credentials leading to the AS Automotive Technology.

#### **Text and References**

Automotive Maintenance & Light Repair, 3rd Edition, Rob Thompson, Cengage Learning, ISBN 10: 0-357-76662-8

# **Course Student Learning Outcomes**

- Research and perform routine maintenance on a modern vehicle.
- Exhibit proficiency with precise measurement instruments.
- Perform routine inspections and repairs on a modern vehicle.

# **Educational Accessibility & Support**

College of the Redwoods is committed to providing reasonable accommodations for qualified students who could benefit from additional educational support and services. You may qualify if you have a physical, mental, sensory, or intellectual condition which causes you to struggle academically, including but not limited to:

- Mental health conditions such as depression, anxiety, PTSD, bipolar disorder, and ADHD
- Common ailments such as arthritis, asthma, diabetes, autoimmune disorders, and diseases

- Temporary impairments such as a broken bone, recovery from significant surgery, or a pregnancy-related disability
- A learning disability (such as dyslexia, reading comprehension), intellectual disability, autism, or acquired brain injury
- Vision, hearing, or mobility challenges

Available services include extended test time, quiet testing environments, tutoring, counseling and advising, alternate formats of materials (such as audio books or E-texts), assistive technology, on-campus transportation, and more. If you believe you might benefit from disability- or health-related services and accommodations, please contact Student Accessibility Support Services (SASS). If you are unsure whether you qualify, please contact SASS for a consultation: <a href="mailto:sass@redwoods.edu">sass@redwoods.edu</a>.

### SASS office locations and phone numbers

#### Eureka campus

• Phone: 707-476-4280

• Location: Student Services Building, first floor

# **Student Support Services**

Good information and clear communication about your needs will help you be successful. Please let your instructor know about any specific challenges or technology limitations that might affect your participation in class. College of the Redwoods wants every student to be successful.

The following online resources are available to support your success as a student:

### **CR Online Learning Support**

Tech support, laptop loans, guides to using Canvas, installing Office 365 for free, and more.

### **Library Articles & Databases**

Find the best library databases for your research.

### Online Tutoring Resources

Participate in tutoring over Zoom.

To learn more about the resources available to you, click on a title bar below, or click the down arrow to expand them all.

Klamath-Trinity students can contact the CR Klamath-Trinity Office for specific information about student support services at 530-625-4821.

# **Community College Student Health and Wellness**

### National Suicide Prevention Lifeline

If you are in distress or are with someone at risk right now, call or text the National Suicide Prevention Lifeline.

#### Call the National Suicide Prevention Lifeline

1-800-273-TALK (8255)

#### Text the National Suicide Prevention Lifeline

741-741

### **Timely Care**

When you're not feeling well physically or distressed mentally, Timely Care can offer the help you're looking for in just a few quick taps. Students can schedule an appointment anytime via phone, video, and chat. Log in or set up an account with Timely Care.

### Mental Health Counseling

Students should text, email, or fax Shawna Bell directly for scheduling and/or services.

• Text: 707-496-2856

Email: shawnabmft@gmail.comFax and voicemail: 707-237-2318

#### Wellness Central

Resources, tools, and trainings regarding health, mental health, wellness, basic needs and more designed for California community college students, faculty and staff are available on the California Community Colleges Wellness Central.

# Counseling

<u>Counseling and Advising</u> can assist students in need of academic advising and professional counseling services. Call, email or stop by one of our offices to make an appointment!

Counseling and Advising office locations and contact info

#### Eureka campus

• Phone: 707-476-4150

• Location: Student Services Building, first floor

• Email: counseling@redwood.edu

• Hours: Monday through Friday, 9am to 4pm. Summer hours may vary

### **Basic Needs Center**

<u>The Basic Needs Center</u> provides for the health and safety of students by providing access to healthy food, financial resources, and referrals to safe and secure housing. <u>Submit a request for services and information</u>.

### Basic Needs Center contact info

• Phone: 707-476-4153

• Email: <u>the-grove@redwoods.edu</u>

# **Learning Resource Center**

The Learning Resource Center includes the following resources for students:

**Library Services** 

<u>Library Services</u> promotes information literacy and provides organized information resources.

Multicultural and Equity Center (MCE)

The <u>Multicultural and Equity Center</u> is a dynamic and inclusive place that supports all students in their academic and personal journeys at the college. We do this by creating community, home away from home, and a safe place for cultural expression, cross-cultural learning, access to college and dignity resources, and social justice work opportunities. The MEC is committed to retention and student success by offering activities related to leadership development, student connectedness and student equity. We are a student-centered program that fosters respect for all people.

**Academic Support Center** 

The <u>Academic Support Center</u> offers tutoring and test proctoring for CR students.

Student Tech Help

Student Tech Help provides students with assistance around a variety of tech problems.

# **Extended Opportunity Programs and Services (EOPS)**

<u>Extended Opportunity Programs and Services</u> (EOPS) provides services to eligible income disadvantaged students including: textbook awards, grants, career academic and personal counseling, transportation assistance, tutoring, laptop, calculator and textbook loans, priority registration, graduation cap and gown, workshops, and more!

# **TRiO Student Success Program**

The TRiO Student Support Services Program provides eligible students with a variety of services including academic advising, career assessments, assistance with transfer, and peer mentoring. Students can apply for the program with the <u>Eureka TRiO office</u> or the <u>Del Norte TRiO office</u>.

### **Veterans Resource Center**

The <u>Veteran's Resource Center</u> supports and facilitates academic success for Active Duty Military, Veterans and Dependents attending CR through relational advising, mentorship, transitional assistance, and coordination of military and Veteran-specific resources.

### **CalWORKS**

California Work Opportunity & Responsibility to Kids (<u>CalWORKs</u>) provides supportive services to student parents with children under the age of 18, who are receiving cash assistance (TANF benefits), to become self-sufficient. Services include: transportation assistance, basic student supplies, tutoring, priority registration, laptop and calculator loans, career, academic, and personal counseling, and more!

### **Course Attendance Policy**

Attendance will be taken at the start of each class session. Students who accumulate 4 absences during the first 10 weeks of class may be dropped from this class by the instructor. There may be situations where this will occur due to unforeseen circumstances. Please contact me so we can discuss your attendance and possible makeup work.

Punctuality is essential in the workplace and is considered respectful of fellow students and instructors. Excessive tardiness can affect your score as well. Less time present means you have less time to complete tasks.

Students who have experienced extenuating circumstances can complete & submit the **Excused Withdrawal Petition** to request an Excused Withdrawal (EW) grade instead of the current Withdrawal (W) or non-passing (D, F & NP) grades. The EW Petition is available from the Admissions and Records Forms Webpage. Supporting documentation is required.

# **Evaluation & Grading Policy**

### **Course Evaluation**

#### **Course Points**

All Labs will contribute 50% towards your final grade. Labs are graded at 20 points per lab. 10 Points towards participation and 10 points towards Repair Orders. Please fill out your repair orders as neat and complete as possible. Some labs will be worth more points if they are a multiday lab.

Tests and Homework will contribute towards the other 50% with 10% towards Homework and 40% toward Tests. Homework will usually be completed as a group after the lecture, however due to certain time constraints it may have to be completed after class.

Your final grade will be based on your grade in Canvas however I will also take into consideration attendance and attitude in the shop when considering your final posted grade. If you ever have any questions about this, feel free to contact me.

**Extra Credit** - Each student may elect independently to read and report on a topic related to automatic transmissions/transaxles from a source other than the course text i.e. recognized trade publications, library reference material, magazines, newspaper articles, etc... The report must be no less than one page typed and no longer than three pages typed. You must properly cite your references on a separate page. You may earn up to 50 points per report and you may turn in a maximum of 1 report per semester. Please inform the instructor of your topic prior to doing this assignment.

### Fall 2024 Dates

Date	To Remember
August 23	Last day to register for classes (day before the first class meeting)
August 24	Classes begin
August 30	Last day to add a class
September 2	Labor Day Holiday (district wide closure)

Date	To Remember	
September 6	Last Day to Drop & Receive a Refund	
September 8	Last Day to Drop w/out a "W"	
September 9	Census Date (20% of class)	
October 31	Last Day to Petition to Graduate & Petition for Certificate	
November 1	Last Day for Student/Faculty Withdrawal	
November 11	Veteran's Day Holiday (District Wide Closure)	
November 25-26	Fall Break (No Classes)	
November 27-29	Thanksgiving Holiday (District Wide Closure)	
December 14-20	Final Examinations	
December 20	Last Day to File P/NP Option	
December 20	Semester Ends	
December 27	Grades Due	
January 3	Grades Available for Transcript Release	

# **Academic dishonesty**

In the academic community, the high value placed on truth implies a corresponding intolerance of scholastic dishonesty. In cases involving academic dishonesty, determination of the grade and of the student's status in the course is left primarily to the discretion of the faculty member. In such cases, where the instructor determines that a student has demonstrated academic dishonesty, the student may receive a failing grade for the assignment and/or exam and may be reported to the Chief Student Services Officer or designee. The Student Code of Conduct (AP 5500) is available on the College of the Redwoods website. Additional information about the rights and responsibilities of students, Board policies, and administrative procedures is located in the 2023-2024 College Catalog and CR Board and Administrative Policies.

# **Disruptive Behavior**

Student behavior or speech that disrupts the instructional setting will not be tolerated. Disruptive conduct may include, but is not limited to: unwarranted interruptions; failure to adhere to instructor's directions; vulgar or obscene language; slurs or other forms of intimidation; and physically or verbally abusive behavior. In such cases where the instructor determines that a student has disrupted the educational process, a disruptive student may be temporarily removed from class. In addition, the student may be reported to the Chief Student Services Officer or designee. Additional information about the rights and responsibilities of students, Board policies, and administrative procedures is located in the 2023-2024 College Catalog and CR Board and Administrative Policies.

# **Inclusive Language in the Classroom**

College of the Redwoods aspires to create a learning environment in which all people feel comfortable in contributing their perspectives to classroom discussions. It therefore encourages instructors and students to use language that is inclusive and respectful.

### **Canvas Information**

- Log into Canvas at My CR Portal
- For help logging in to Canvas and general tech help, visit <a href="Student Technical Support">Student Technical Support</a>
- Once you're logged in to Canvas, you click on the Help icon on the left menu
- Canvas online orientation workshop: Canvas Student Orientation Course

### Setting Your Preferred Name and Pronouns in Canvas

Students have the ability to display personal pronouns and an alternate first name in Canvas. Students may change their pronouns on their own in Canvas (Account :: Settings :: Edit Settings). To request a change to your preferred list name, contact <u>Admissions & Records</u>. Your Preferred Name will only be listed in Canvas; this does not change your legal name in our records. See the <u>Student Information Update Form (pdf)</u>.

# **Emergency Procedures / Everbridge**

College of the Redwoods has implemented an emergency alert system called Everbridge. In the event of an emergency on campus you will receive an alert through your personal email and/or phones. Registration is not necessary in order to receive emergency alerts. Check to make sure your contact information is up-to-date by logging into <a href="WebAdvisor">WebAdvisor</a> and selecting 'Students' then 'Academic Profile' then 'Current Information Update.'

Please contact Public Safety at 707-476-4112 or <u>security@redwoods.edu</u> if you have any questions. For more information visit Redwoods Public Safety.

In an emergency that requires an evacuation of the building anywhere in the District:

- Be aware of all marked exits from your area and building
- Once outside, move to the nearest evacuation point outside your building
- Keep streets and walkways clear for emergency vehicles and personnel

Do not leave campus, unless it has been deemed safe by the campus authorities.

### **Course Schedule**

Day	Theory	Lab	Assigned Reading
8-27	Overview	Shop Safety/Safety Test	Ch. 2,
8-29	Shop Basics Vehicle ID	Engine Inspections	Ch. 22
9-3	Engine Principles	Engine Testing	Ch. 23
9-5	Engine Review	Test 1	
9-10	Electrical	ConsuLab/DMM	Ch. 17
9-12	Vehicle Wiring	Wiring Diagrams & Repair	Ch. 18
9-17	Electronic Service	Battery Service & Test	Ch. 19
9-19	Starting & Charging	Charging Lab	Ch. 20
9-24	Starting & Charging	Starting Lab	
9-26	Lighting & Electrical	Lighting Systems	Ch. 21
10-1	Electrical Review	Test 2	
10-3	Brake Principles	Brake Inspections	Ch. 10 & 11
10-8	Drum Brakes	Drum Brakes	Ch. 12 & 13
10-10	Disc Brakes	Disk Brakes	Ch. 14 & 15
10-15	ABS ESC	Parking Brakes & Assist	Ch. 16
10-17	Brakes Review	Test 3	
10-22	Wheels & Tires	Bearings & Tires	Ch. 5
10-24	Suspension Systems	Suspension Inspections	Ch. 6 & 7
10-29	Steering Systems	Steering Inspections	Ch. 8 & 9
10-31	Suspension/Steering Review	Component R&R	
11-5		Test 4	
11-7	Drive Trains	Drive Train Inspections	Ch. 25
11-12	Drive Train	Half-Shaft R&R	
11-14	Transmissions	Transmission Inspections	
11-19	Transmissions	Fluid Replacement & Flushing	
11-21		Test 5	
11-26	Fall Break	No Class	
11-28	Fall Break	No Class	
12-3	Scan Tools	Scan Tools	Ch. 24
12-5	Vehicle Maintenance	Vehicle Inspections & HVAC	Ch. 27 & 26
12-10	Vehicle Inspections	Vehicle Inspections	
12-12	Make Up Day	Make Up Day	
12-17	Final Exam	8:30AM – 10:30AM	