

COURSE SYLLABUS

AUTOT-10 #55085 FALL 2019 Instructor: Mr. Garza

Class meets: Mon.-Fri. 7:30am-1:20pm Classroom: IND. 11/Auto Lab

Office Hours: Mon.-Fri. 7-7:30, Mon.-Thurs. 9:40-10:10, Fri. 9:30-10

Office: IND. 6

Phone: (559) 638-0300 ext.3479

Shop 638-0372

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Course Description

This course in concert with Auto11 will prepare the student with the knowledge and skills to perform diagnosis, repair of various automotive components, and enter the automotive service industry at the advanced apprentice level. Subjects include Safety, Ethics, Regulations, Engine Repair, Manual Transmissions, Clutches, Automatic Transmissions, and Electrical Systems. Tools and equipment are provided; however, the student is expected to furnish a Digital Volt Ohm Meter (DVOM), personal safety items, and uniform shirts.

Course Outcomes

Upon completion of this course, students will be able to:

- Diagnose, repair, and service automobiles and light trucks utilizing the logic and reasoning developed in class through hands-on experience.
- Apply safety procedures in a shop environment and follow hazardous waste handling procedures.
- Apply and demonstrate shop procedures from hands-on experience
- Perform electrical system repairs and service in accordance with accepted industry practices.

Course Objectives

In the process of completing this course, students will:

- Learn to work safely in a shop environment
- Manage hazardous waste materials
- Develop an understanding of the Automotive Industry
- Identify and use tools and shop equipment
- Identify and use automotive measuring devices
- Analyze and identify electrical systems
- Diagnose and repair electrical systems

Required text

Automotive Electrical and Engine Performance seventh edition, James D. Halderman.

Grading

1.	Quizzes & Notebook	34%
2.	Exams	33%
3.	Shop Work	33%

TOTAL GRADE _____

Grade Distribution

Grade	Percent
A	90% or greater
B	Less than 90%
C	Less than 80%
D	Less than 70%
F	Less than 60%

Attendance

Attendance is a key factor in your success as a college student. **If you are absent more than three times in the first nine weeks, you will be dropped. If you exceed three absences after mid-term (9 weeks) you will have 5% of your overall grade deducted for each additional absence at the end of the semester.** You are expected to attend all class meetings, to be on time, to be prepared and to be in class the entire class period.

- a. **Three** tardies equal **one** absence. Please be on time.
- b. **Three** early-outs equal **one** absence. Please make appointments after class.
 1. A student must be in class for at least 3 hours for a tardy or early out, if not, it will be charged as an absence.
- c. Exceptions may be made at Instructor's discretion on a case-by-case basis.

The drop date without credit deadline is the ninth week of instruction **Friday, October 11th** (a letter grade is issued after this date). The student will be evaluated by quizzes, exams, shop work, notebook.

2. Falling asleep in class and/or disruptive behavior **will not be tolerated. If student is asked to leave for such actions this will result in student being counted absent for the day.**
3. Use of cell phones, smart watches, iPods, BlackBerry, PDA, pagers, cameras, recorders, tablets and laptops **during class and shop will not be allowed** (exception made at Instructor's discretion on a case-by-case basis). Please turn off all electronic devices prior to start of each class.

Classroom/Shop Department

1. **Each student is expected to respect the rights of other students and the instructor. Students who do not behave in a respectful manner will be dropped from the class. NO FOOD, CELLULAR PHONES OR PROFANITY AT ANY TIME!!!!**
You will be expected to take care of any personal needs such as going to the restroom, getting a drink of water, sharpen your pencil, ect; prior to the start

of class. **Students who do not follow program policies will be asked to leave and marked absent for the day.**

2. **Each student will be assigned a locker. Use it to store your materials.**
3. **No backpacks allowed in classroom or shop.**
4. **Students who are not prepared or do not have the required materials** (safety glasses, DVOM, uniform shirt, textbook, ect.) **will be asked to leave and marked absent for the day.**

Student Rights

Students are encouraged to become familiar with the “Campus Policies” section of the Schedule of Courses. This material includes information regarding cheating and plagiarism, disruptive classroom behavior, and other instructional issues.

Assignments

1. Students will follow lecture and reading schedule for reading assignments.
2. All homework will be turned in on the assigned date. **All late assignments will be penalized a minimum of 10% for each day late. Notebooks will not be accepted late.**
3. Electronic duplication from other students or sources is prohibited if not approved by instructor.
4. Copying, cheating of any kind will not be accepted. **Students found cheating will be dropped.**
5. Work is graded on completeness, neatness, and effort. **I will not accept work on spiral bound notebook paper.**

Quizzes and Exams

1. Make-up of quizzes.
It is your responsibility to notify me **in advance** that you will be unable to take a quiz as scheduled.
 - a. It is the student’s responsibility to contact instructor.
 - b. Quizzes cannot be made up if:
 1. Reviewed in class
 2. Excuse for absence is unacceptable
 3. **Student is limited to one make-up per semester**
 4. The final exam may not be made-up
 - c. Make-up quiz will be arranged by the instructor.
 - d. There will be a **10% deduction** for make up quiz.
 - e. There will be a **10% deduction** for any quiz or exam that does not have student’s assigned grade number.
 - f. There will be **NO ADJUSTMENTS** made for electronic scoring **where scantron has erase marks, smudges, wrinkles, ect.**

- g. There will be a **10% deduction** for scantrons that must be hand scored because of frayed, wrinkled scantron.

- 2. There will be two exams:
 - a. An Electrical exam at midterm
 - b. An Electrical final exam during finals week

Having Trouble?

If at any time you are having trouble succeeding in this course, whether because of a change in your life circumstances or because of something you do not understand about the material- please see me. There are a number of services available to assist Reedley College students succeed in their coursework, and I would be happy to recommend one of these to you.

Accommodations for Students with Disabilities

If you have a verified need for an academic accommodation or materials in alternate media (i.e. Brail, large print, electronic text, ect.) per the Americans with Disabilities Act (ADA) or section 504 of the Rehabilitation Act, please contact me as soon as possible.

Lecture and Lab Rotations

(A) Three one hour lectures Tuesday, Wednesday and Thursday as outlined in daily schedule.

(B) Four 6 day lab rotations per group.

- 1. DMM usage and Wiring Repair
- 2. Battery Service and Diagnosis
- 3. Cranking System and Diagnosis
- 4. Charging System/Comprehensive Electrical System Check

This schedule and syllabus are subject to change at the discretion of the instructor- it is the responsibility of the student to check on announcements made during any absence.

Dates to remember:

Deadline to drop without a grade, Fri. October 11th

California Automotive Teachers Conference, Fri. October 18th

Holidays Labor Day, Mon. Sept. 2
Veterans Day, Mon. Nov. 11th
Thanksgiving, Thur. and Fri. Nov. 28 and 29

Class lecture and reading schedule(Tentative)

Week/s		Chapter/s
1	Orientation/ Environmental and Hazardous Materials	2
2-5	Electrical Fundamentals DMM Testers Circuits and Ohm's Law	3,4,5
6-10	Series/Parallel Circuits Wire Repair Wiring Diagrams Batteries Battery Testing and Service	8,9,15,16
11-14	Capacitors, Magnetism Cranking System Cranking System Diagnosis and Service	10,11,17,18
15-16	Charging System Charging System Diagnosis and Service	19,20
17	Charging System Diagnosis and Service Review (Time Permitting)	20
18	<u>Finals Week</u>	

