



**AUT 114 Welding for the Automotive Trade**  
**3 Credits**  
**College Now/CTE**  
**Student Outcomes Checklist**  
[cocc.edu/departments/college-now](http://cocc.edu/departments/college-now)

Student's Name \_\_\_\_\_

Student's Signature \_\_\_\_\_ Completion Date \_\_\_\_\_

High School Teacher's Signature \_\_\_\_\_

Recommended Grade \_\_\_\_\_ High School \_\_\_\_\_

COCC Review Instructor's Signature \_\_\_\_\_

**COURSE DESCRIPTION:** Provide a good understanding of the fundamental principles of automotive fabrication. Includes safety topics. This course is designed to introduce the student to focused areas that are often required when replacing components on vehicles that will require a light level of fabrication.

**REQUIRED DOCUMENTATION:** The high school teacher will send the completed student outcomes checklist (pages 1 and 4), graded final exams and the signed final grade roster to: College Now Office, Central Oregon Community College, 2600 NW College Way, Bend, OR 97703.

**GRADING:** A, A-, B+, B, B-, C+, C, D, F.  
 See [College Now Grading Policy](#).

**FINAL EXAM GRADING SCALE**

**Final Raw Score**

100 – 92	A (4.0 Points)	81 – 80	B- (3.3 Points)
91 – 90	A- (3.7 Points)	79 – 78	C+ (2.3 Points)
89 – 88	B+ (3.3 Points)	77 – 70	C (2.0 Points)
87 – 82	B (3.0 Points)	69 – 65	D (1 Point)
		< 64	F (0 Points)

**Learning Outcomes:**

1. Demonstrate the correct operation and handling of the Oxygen/Acetylene torch. Identify the purpose and types of safety considerations used in cutting metal with an Oxygen/Acetylene torch.
2. Demonstrate the correct operation and handling of the torch during the welding process. Identify the purpose and types of safety considerations used in welding sheet metal, and tubing with mild steel rod and brazing rod.
3. Demonstrate the correct operation and handling of a wire feed welder (MIG). Identify the purpose and types of safety considerations used when welding with a wire feed welder.
4. Demonstrate the correct operation and handling of a stick/arc welder. Identify the purpose and types of safety considerations used when welding with a stick/arc welder.
5. Perform successfully the welding lab task assignments outlined in the welding course packet.

**ONLY MATERIAL THAT IS PRELIMINARY TO ASE TASKS APPEARS IN THIS UNIT; THEREFORE, NO ASE TASKS ARE COVERED DIRECTLY.**

**Recommended Texts: No recommended textbook**

**Workbook – Cavallo**

**Course Requirements:**

**Attendance** – Automotive students are expected to attend class as scheduled. You must “clock in” and “clock out” when you arrive and when you depart. Failure to attend and complete the assignments will result in a failing grade. Course withdrawal is a student’s responsibility and will NOT be initiated by program personnel.

**Preparation** - It is the student’s responsibility to come to class prepared with shop clothing, eye protection, foot protection, pen or pencil, notebook and course materials. Students who come unprepared will not be allowed to participate until their deficiency is corrected.

**Grading Criteria:**

The basic skills portion of the Automotive Program utilizes a mastery level grading system. Mastery means that you have completed each learning station with 100% proficiency level on all labs, tests, and homework. If 100% is not obtained on the first try, it is the student’s responsibility to go back and study / relearn the necessary information and correct any errors.

Follow the outline for each learning station. Each learning station requires that you complete the homework / test **prior** to going to the lab. After completing a lab, you must have the approval of the instructor before advancing to the next lab.

To complete the course **you must** complete **all** labs and be signed off by the instructor. If you are within **80%** of completion and are unable to complete during the quarter period, you will be given an **Incomplete** for the quarter grade, but **must complete the last two assignments within four weeks of the next quarter.**

A.	<u>Lab Evaluation</u>	<b><u>75%</u></b>
	Instructor Evaluation will be based on the following:	
1.	Lab participation-Completion of assignments - Workbook welding assignments	<b>55%</b>
2.	Homework	<b>10%</b>
3.	Professional behavior	<b>10%</b>
	a. makes constructive use of time, seeks learning experience.	
	b. maintains a positive learning attitude.	
	c. maintains appropriate clothing: shop shirt and pants or coveralls, shoes	
	d. notifies instructor of absences in advance.	

- B. Class Evaluation - Final Exam **15%**
- C. Competency checklist **10%**

**Final Grade** Your Final Grade will be listed as an A , B , C , D, F or Incomplete (I). Incomplete work must be finished within the timeline prescribed by the instructor. I am here to help you do great work. **WORK THAT WILL MAKE YOU SUCCESSFUL.** *NOTE: If there is any student in this class who has need for test-taking or note-taking accommodations, please feel free to come and discuss this with me.*

**Instructor  
Policies**

1. The Student is **required** to contact the instructor to make prior arrangements concerning work and class time that the student plans to miss. Arrangements for taking tests should be done ahead of time.

**\*\*2. Each module will require an appointment with the instructor. You will a set period to accomplish each module. . Once you have started a module, you must finish OR failure will be reported as a final grade.**

3. Contact the teacher if you are unable to attend class or lab.
4. Obtaining answers from another student will result in a grade of 0 for the activity. A second occurrence will result in a failing grade for the class.
5. Course schedule is subject to change.
6. Students are responsible for all material covered in class and assigned readings.

**\*Answer the Review and Chapter quiz questions at the back of each assigned section of your Course pack.**

**Before you start any lab you MUST complete the safety review**

Instructor initial \_\_\_\_\_

Before you start, be sure that you are scheduled to work with the welding equipment.

**Lab 1 – Cutting Torch**

**Demonstrate the correct use of a cutting torch. (the lab kits are in the tool room)  
View instructional DVD at work station as you complete the exercise.**

**Complete Blackboard assignment for Lab 1** \_\_\_\_\_

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**Lab 2 - Gas Welding**

**Demonstrate the correct use when performing Oxy / Acetylene welding.  
(the lab kits are in the tool room)  
View instructional DVD at work station as you complete the exercise.**

**Complete Blackboard assignment for Lab 2** \_\_\_\_\_

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**Lab 3 – Wire Feed Welder**

**Demonstrate the correct use when performing wire feed welding.  
(the lab kits are in the tool room)  
View instructional DVD at work station as you complete the exercise.**

**Complete Blackboard assignment for Lab 3** \_\_\_\_\_

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**Lab 4 – Stick Welder**

**Demonstrate the correct use when performing stick welding.  
(the lab kits are in the tool room)  
View instructional DVD at work station as you complete the exercise.**

**Complete Blackboard assignment for Lab 4** \_\_\_\_\_

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***Final – on Blackboard*** \_\_\_\_\_

***Complete Competency Checklist in your course-pack*** \_\_\_\_\_

**Students are not covered by medical insurance while on campus or involved in college classes and activities. Students are responsible for their own medical and dental insurance coverage. Information on student insurance coverage can be obtained at the student health center in Grandview or at the cashier in the Boyle Education Center. If you have specific questions or concerns regarding student insurance coverage you should discuss them with the Program Coordinator or Department Chairperson.**

**ADA Statement:** Students with documented disabilities who may need accommodations, who have any emergency medical information the instructor should know of, or who need special arrangements in the event of evacuation, should make an appointment with the instructor as early as possible, no later than the first week of the term. Students any also wish to contact the COCC Disabilities Services Office in Boyle Education Center, extension 541-383-7583.

**Insurance Statement:** Students are not covered by medical insurance while on campus or involved in college classes and activities. Students are responsible for their own medical and dental insurance coverage. Information on student insurance coverage can be obtained at the student health center in Grandview or at the cashier in the Boyle Education Center. If you have specific questions or concerns regarding student insurance coverage you should discuss them with the Program Coordinator or Department Chairperson.

**Plagiarism Statement:** All students are expected to practice the highest standards of academic honesty. Cheating on assignments, quizzes or exams or plagiarizing other people's work is unacceptable and may lead to a failing grade. Plagiarism is using, borrowing or stealing someone else's words or ideas without giving appropriate credit to the original author. This includes copying definitions and sentences from textbooks, other student's papers, the Internet or any other source. Students are expected to complete all assignments independently, unless it is a designated group project.

**Physical Contact:** Due to the nature of this course, students are advised that physical contact between the instructor and student, or student to student is required for some lab assignments. If you have concerns about these requirements, you are encouraged to discuss these with the instructor prior to the next class session to determine if appropriate alternative assignments exist. If you do not think you will be able to participate to the extent required by the course, you are encouraged to drop the course within the appropriate deadlines in order to obtain a refund.

**Non-Harassment Policy:** The College's goal is to provide an atmosphere that encourages individuals to realize their potential. Therefore, it is against the College's policy for any manager, supervisor, faculty, staff, or student to engage in harassment of any member of the College community based on his/her age, disability, gender, marital status, national origin, color, race, religion, sexual orientation, or veteran status. Under the College policy, harassing behaviors will not be tolerated. Therefore, it is the responsibility of every member of the College community to ensure that the policy is strictly enforced. This includes notifying each employee/student of his/her rights and responsibilities under COCC's non-harassment policy. Management staff is responsible for taking reasonable action to maintain work and educational environments free of conduct that causes or reasonably could be considered to cause intimidation or hostility.

**Affirmative Action Policy:** Community Colleges in Oregon are required to include an affirmative action policy as part of their overall personnel policies (OAR 581-043-0700). Central Oregon Community College is committed to the concepts and goals of affirmative action. It is therefore the policy of Central Oregon Community College to take affirmative action to recruit and to employ members of protected groups. Under Federal Executive Order 11246 as amended, protected minority groups are defined as American Indian or Alaskan Native, Asian or Pacific Islander, Black, and Hispanic individuals. Women are also designated as a protected group. The protected groups are those groups of persons who have historically been most disadvantaged by discriminatory practices formerly sanctioned by law. Affirmative employment efforts are also required for disabled veterans, veterans of the Vietnam era and for disabled persons.