

Casper College Course Syllabus

COURSE NUMBER AND TITLE: AUBR 1540-01 Auto Body Welding
SEMESTER/YEAR: FALL 2015

LECTURE HOURS: 1 LABORATORY HOURS: 4 CREDIT HOURS: 3

CLASS TIMES: MW 3:00 - 5:30 p.m. ROOM: WT 128/130

INSTRUCTOR'S NAME: Darin Miller/Greg Brack

INSTRUCTOR'S CONTACT INFORMATION:

Office Location: WT 129A/WT 145
Office Phone: 268- 2278/268-2665
Email: dmiller@caspercollege.edu
greg.brack@caspercollege.edu

OFFICE HOURS: As posted on office door

COURSE DESCRIPTION: A course in application of basic welding techniques in replacement and repair of body panels.

PREREQUISITES: WELD 1820 or concurrent enrollment

GOAL: Course content will allow the student to develop the welding and safety skills required in the auto body repair industry.

OUTCOMES: Upon completion of this course the student will:

1. Be able to identify the three classes of welding;
2. Understand the use of a MIG welding machine and be familiar with basic MIG welding techniques;
3. Be able to determine where and how to use resistance spot welding;
4. Understand the use of oxyacetylene welding equipment and techniques;
5. Be familiar with general brazing & soldering techniques used in a body shop;
6. Be familiar with plasma arc cutting of body panels and plasma cutting techniques;
7. Be capable of passing the I-Car Welding Qualifications Test
8. Demonstrate effective oral and written communication.
9. Solve problems using critical thinking and creativity.
10. Use appropriate technology and information to conduct research.

METHODOLOGY: lecture, demonstration, laboratory projects;

EVALUATION CRITERIA: The student will be evaluated on tests, workorders, and job completion on lab projects

GRADING SCALE:

100 – 90 = A
89 – 80 = B
79 – 70 = C
69 – 60 = D

REQUIRED TEXT, READING MATERIALS: Welding for Collision Repair, L. Jeffus, Delmar Publishers

CLASS POLICIES:

Last Date to Change to Audit Status: See current Casper College catalog.

Last Date to Withdraw with a W Grade: See current Casper College catalog.

No cell phones or other electronic devices are allowed in the classroom or laboratories.

SAFETY: Personal and equipment safety standards will be strictly enforced. *It is the*

individual's responsibility to develop and use a safe work attitude.

Students in this course will be using chemicals which require precautions and should consult with the instructor for safe usage.

Only officially registered students are allowed to participate in classroom or laboratory activities.

STUDENT'S RIGHTS AND RESPONSIBILITIES: Please refer to the Casper College Student Conduct and Judicial Code for information concerning your rights and responsibilities as a Casper College Student.

Chain of Command: If you have any problems with this class, you should first contact the instructor in order to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take your problem through the appropriate chain of command starting with the Department Head/Program Director, the Academic Dean, and lastly the vice president for academic affairs.

Academic Dishonesty – Cheating and Plagiarism: Casper College demands intellectual honesty. Proven plagiarism or any form of dishonesty associated with the academic process can result in the offender failing the course in which the offense was committed or expulsion from school. See the Casper College Student Code of Conduct.

Official Means of Communication: Casper College faculty and staff will employ the student's assigned Casper College email account as a primary method of communication. Students are responsible to check their account regularly.

ADA Accommodations Policy: If you need academic accommodations because of a disability, please inform me as soon as possible. See me privately after class, or during my office hours. To request academic accommodations, students must first consult with the college's Disability Services Counselor located in the Gateway Building, Room 344, (307) 268-2557, bheuer@caspercollege.edu. The Disability Services Counselor is responsible for reviewing documentation provided by students requesting accommodations, determining eligibility for accommodations, and helping students request and use appropriate accommodations.

CALENDAR OR SCHEDULE INDICATING COURSE CONTENT:

- Welding Equipment Technology Chapter 8
 - MIG Welding
 - Techniques, methods, defects, & safety
 - TIG Welding
 - Techniques, methods, defects, & safety
 - Resistance spot welding
 - Stud welding for dent removal
- TEST Chapter 8 (9/16/15)
 - Welded Panel Replacement Chapter 19
 - Welded panels
 - Structural panels
 - Panel prep
 - Sectioning
 - Antirust treatments
 - Adhesive panel replacement
- TEST Chapter 19 (12/2/15)
- PRACTICALS
 - Metal Preparation and Joint Fit up
 - Cutting & Welding HSLA Steel
 - Cutting & Replacing Patch Panels
 - Inverter Technology & Pulse Control

