

Casper College  
Course Syllabus

COURSE NUMBER AND TITLE: AUBR 1810 Collision Damage Repair I  
SEMESTER/YEAR: Fall 2015

LLECTURE HOURS: 2 LABORATORY HOURS: 4 CREDIT HOURS: 4

CLASS TIMES: 6:00 p.m. – 9:00 p.m. TTH ROOM: WT 128/130

INSTRUCTOR'S NAME: Emil Williams

INSTRUCTOR'S CONTACT INFORMATION:

Office Location: WT 145  
Office Phone: 268- 2665  
Email: ewilliams@caspercollege.edu

OFFICE HOURS: As posted on office door

COURSE DESCRIPTION: Introduction to the collision repair industry, vehicle construction technology, tool usage, materials, fasteners, working sheet metal and the use of body fillers.

PREREQUISITES: NONE

GOAL: To introduce the student of the collision repair industry, vehicle construction, body repair tools, and basic sheet metal repair.

OUTCOMES: After completing this course the student should be able to:

1. Become familiar with different shop area and safety rules that apply to each;
2. Be able to understand the Right to Know Laws and methods of handling hazardous materials;
3. Describe what happens to a vehicle during a collision;
4. Summarize the basic steps for repairing a vehicle;
5. Explain the major work areas and flow in a typical repair facility;
6. Explain the current design of motor vehicles;
7. Identify major structural components of a motor vehicle;
8. Identify tools used in the body shop;
9. Be familiar with materials and fasteners used in the industry;
10. Analyze minor damage to sheet metal;
11. Understand basic metal working methods and the use of fillers;
12. Demonstrate effective oral and written communication.
13. Solve problems using critical thinking and creativity.
14. Use appropriate technology and information to conduct research.

METHODOLOGY: Theory and operation is presented in lecture, handouts, other media and hands-on laboratory activities. The student is required to study the corresponding material appropriate for the lecture and laboratory work.

EVALUATION: 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

EVALUATION: (continued)

*Assignments:* All assignments will be completed in class except for reading assignments, make-up work and written reports.

*Make-up work:* It is the responsibility of the student to find out what work he/she missed, when absent from class.

REQUIRED TEXT, READINGS, MATERIAL: Auto Body Repair Technology, James E. Duffy, 6th Edition  
Three ring notebook/paper/pencils  
Safety glasses  
Tools on basic tool list

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](mailto: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:

Introduction and careers Chap 1

Body Shop Repairs, Auto Body Careers

Vehicle Construction Technology Chapter 2

Body and chassis, frames, body sections, classifications, unibody, body over frame

TEST Chap 1 & 2 (9/17/15)

Hand Tool Technology Chapter 4

General purpose tools, body working tools, body surfacing tools, hand tool safety

Power Tool Equipment Technology Chapter 5

Air tools, electric tools, hydraulic equipment, power jacks & straightening equipment, tool care, lifts

TEST Chap 4 & 5 (10/1/15)

Body Shop Materials & Fastener Technology

Refinishing materials, fasteners

TEST Chap 7 (11/5/15)

Working Sheet Metal Chapter 11

Auto sheet metal, body damage classification, analyzing damage, straightening techniques, shrinking and stress relieving, working aluminum panels

Using Body Fillers Chapter 12

Body filler application, grating & sanding, repairing paint surface imperfections, repairing rust damage

TEST Chap 11 & 12 (12/3/15)