COURSE NUMBER AND TITLE: AUBR 1710 Frame and Chassis I
SEMESTER/YEAR: Spring 2015

LECTURE HOURS: 1 LABORATORY HOURS: 3 CREDIT HOURS: 2.5

CLASS TIMES: 6:00 – 10:00 p.m. WT ROOM: 130/128

INSTRUCTOR’S NAME: Emil Williams

INSTRUCTOR’S CONTACT INFORMATION:
Office Location: WT 145
Office Phone: 268-2665
Email: ewilliams@caspercollege.edu

OFFICE HOURS: TBA

COURSE DESCRIPTION: An introduction to frame repair including impact on its effect on a vehicle, measurement of body dimensions, unibody straightening, and realigning techniques.

PREREQUISITES:
- AUTO 1550 Auto Body Repair I
- AUTO 1810 Collision Damage Repair I

GOAL: To familiarize the student with major body and frame repair including the use of a frame rack and measuring systems.

OUTCOMES: Upon completion of this course the student should be able to:
1. Explain how impact forces are transmitted through the frame and body;
2. Describe how to visually determine the extent of impact damage;
3. Recognize the various types and variations of body measuring tools;
4. Diagnose various types of body and frame damage on full frame and unibody vehicles;
5. Describe various straightening and aligning techniques.
6. Demonstrate effective oral and written communication
7. Solve problems using critical thinking and creativity
8. 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 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

Attendance Policy: Attendance is of utmost importance. Unexcused absences in the excess of 4 will result in the loss of one letter grade. Due to the consideration of the instructor and students, you must be present at the designated starting class time or you will not be allowed to participate unless prior arrangements with the instructor have been made.

Tool Use: Misuse of shop tools will result in the loss of tool privileges.

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.

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:

Body and Frame Damage Measurement Chap 17
17.1 Impact and its Effect on a Vehicle
17.2 Visually Determining the Extent of Impact Damage
17.3 Gauge Measuring Systems
17.4 Tram Gauge
17.6 Centering Gauge
17.8 Diagnosing Damage Using Gauge Measurement Systems
17.9 Universal Measuring Systems
17.10 Computerized Measuring Systems
TEST Chap 17 (2/25/15)

Unibody/Frame Realignment Chap 18
18.1 Realignment Basics
18.2 Unibody/Frame Straightening Equipment
18.3 Straightening and Realigning Techniques
17.3 Measuring of Body Dimensions
17.1 Strut & Centerline Gauge
18.4 Measuring when Pulling
18.5 Planning the Pull
18.6 Making Pulls
18.7 Executing a Pulling Sequence
18.8 Stress Relieving
TEST Chap 18 (4/8/15)