



**ACR 123**  
**Unibody Straightening Systems and Techniques**  
**MASTER COURSE SYLLABUS**

**\*\*Instructors will provide students with additional course-specific information, including attendance/makeup policies, assignment/test scheduling, and instructor contact information, as necessary and appropriate.\*\***

**Prerequisite(s):** ACR 122, ACR 127

**Corequisite(s):**

**Quarter(s) Offered:** Summer and Winter

**Class Hours:** 1

**Lab Hours:** 9

**Credit Hours:** 4

**Course Description:** Introduces unibody straightening systems and techniques used in automotive collision repair. Topics include: Equipment types and usage, Safety procedures, Primary/rough and secondary damage pull, Single pull correction, and multiple pull correction, and impact or pull stress relief.

**Student Learning Outcomes:** Upon successful completion of this course, the student should be able to:

***EQUIPMENT TYPES AND USAGE***

- Explain and measure a unibody using tram gauge and center line gauge.
- Explain and measure a unibody with a universal measurement system.
- Describe a laser measuring system.
- Describe a dedicated measuring system.
- Demonstrate the ability to use pull tanners correctly.

***SAFETY PROCEDURES***

- Follow and observe all alignment safety considerations.

***PRIMARY/ROUGH AND SECONDARY DAMAGE PULL***

- Explain the pulling sequence of "Last In First Out" in relation to primary corrective pulls to secondary corrective pulls.
- Demonstrate the ability to correct primary and secondary damage.

### **SINGLE PULL CORRECTION**

- Demonstrate the ability to correct primary and secondary damage with a series of single-direction pulls after developing a pulling sequence.

### **MULTIPLE PULL CORRECTION**

- Demonstrate the ability to correct primary and secondary damage with a series of multiple pulls after developing a pulling sequence.

### **IMPACT OR PULL STRESS RELIEF**

- Identify stress/deformation on unibody vehicles
- Define stress in the auto collision repair industry.
- Explain how stress can be caused in unibody vehicles.
- Demonstrate the ability to relieve stress in a unibody structure.

**Grading Scale:** The grading scale is detailed in the *Catalog and Student Handbook* and listed below for reference. All faculty members follow this scale when assigning grades to reflect a given student's performance in the classroom.

Grade	Numerical Equivalent	Grade Point
A/A*	90-100	4
B/B*	80-89	3
C/C*	70-79	2
D/D*	60-69	1
F/F*	0-59	0

Effective Summer Quarter 2006, Athens Technical College replaced the S/U grading system used for learning support classes with an A\*-F\* grading system. The registrar uses an asterisk (A\*, B\*, C\*, D\*, F\*, W\*, WF\*, WP\*) to designate learning support course grades on transcripts and grade reports because these grades are not components of the quarterly grade point average.

**Required Textbook(s), including ISBN:**

Title:	Auto Body Repair Technology 4 <sup>th</sup> Edition
Author:	James E Duffy
Publisher:	Thomson-Delmar Learning
ISBN	0-7668-6272-0

### **Supplementary Material(s):**

### **Required Equipment/Tools/Resources:**

- Note Book w/paper
- Pencil and Pen
- Pencil and Pen
- Leather work gloves
- Leather work gloves

**Instructional Technologies Employed:**

- Class room
- Live lab
- Hands on

**Attendance:** Regular class attendance is important and expected. The college considers both tardiness and early departure from class as forms of absenteeism. Students absent from class for any reason are still responsible for all work missed. Instructors have the right to determine whether work missed can be made up and have the liberty to set reasonable expectations for attendance **based on frequency of class meetings and on the instructional delivery method, subject, type, and level of the class.** Class attendance policies will be clearly stated for students by their respective instructors on separate documents (course outlines/schedules) or appendices to the master syllabus.

**Grading Policy and Criteria:** Students are graded on each written or lab assignment according to the grading rubric for that assignment. Students are responsible for completing each task and submitting each completed task to an instructor for evaluation. The student's shop grade is determined by averaging the assignment grades using a weighted average. Work which is not completed by the end of the quarter will be averaged as a grade of 0. A final written test is taken after completing all written and lab assignments. The grade for the course is 85% of the shop grade plus 15% of the final test grade.

**Work Ethics:** To fulfill the responsibility to teach essential workplace ethics, the college evaluates program students on attendance, character, teamwork, appearance, attitude, productivity, organizational skills, communication, cooperation, and respect. Because students are preparing for employment, it is essential that they become accustomed to standards of behavior in the workplace. At the conclusion of the quarter, faculty members assign separate numerical work ethics grades which appear beside the course letter grades on both transcripts and grade reports. The work ethics grading scale is as follows: 3 (Exceeds Expectations), 2 (Meets Expectations), 1 (Needs Improvement), and 0 (Unacceptable).

**Academic Honesty:** Academic honesty is expected at all times. Any student found to have engaged in academic misconduct such as cheating, plagiarism, or collusion is subject to disciplinary sanctions as outlined in the Student Code of Conduct detailed in the *ATC Catalog and Student Handbook*. The term "plagiarism" includes, but is not limited to, the use, by paraphrase or direct quotation, of the published or unpublished work of another person without full and clear acknowledgment. The term "collusion" includes, but is not limited to, the unauthorized collaboration with any other person in preparing work offered for academic credit. Students are advised that faculty routinely use **turnitin.com** both to prevent plagiarism and to assist in verifying when/if it has occurred.

**Course Withdrawal:** Students may withdraw from a course without academic penalty until the midpoint of the quarter (as stated in the Academic Calendar published in the *ATC Catalog and Student Handbook*). By withdrawing before the midpoint of the quarter, the student is automatically assigned a grade of W, which does not affect quarterly or cumulative grade point average. Grades of W will affect satisfactory academic progress for financial aid purposes.

**Students who stop attending class(es) without formally withdrawing risk earning a final**

**grade of F, which will appear on the academic transcript.** Refer to the *ATC Catalog and Student Handbook* for further details.

**Academic Support Center:** The Academic Support Centers of Athens Technical College (ATC) provide free tutoring for enrolled students. Both instructors and peer tutors provide tutoring in almost all subjects offered by the college. Information about the Center is accessible via the ATC website at [www.athenstech.edu](http://www.athenstech.edu). To find out the specific services available on the Athens, Greene, and Walton Campuses, please call (706) 583-2839. To contact the Academic Support Center on the Elbert County Campus, please call (706) 213-2129.

**Americans with Disabilities Act:** Any student who believes he/she is eligible for accommodations in the classroom and/or during testing due to a documented disability is encouraged to contact the Director of Student Support Services at (706) 355-5081, or the Coordinator of Disability Services at (706) 355-5006, to apply for assistance. It is our goal at Athens Technical College to provide equal access to education for all students.

**Cell Phones and Electronic Devices:** Students are strictly prohibited from using cell phones and personal electronic devices within college-owned/operated facilities without the explicit permission of a faculty or staff member.

**Food/Drinks in Classroom:** Food and beverages (other than water) are not allowed in classrooms/labs.

**Warranty of Graduates:** The Department of Technical and Adult Education warrants every graduate of technical programs in which students may earn technical certificates of credit, diplomas, or associate degrees. The warranty guarantees that graduates demonstrate the knowledge and skills and can perform each competency as identified in the industry-validated standards established for every program of study. If one of our graduates educated under a standard program or his/her employer finds that the graduate is deficient in one or more competencies as defined in the course/program standards, Athens Technical College will retrain the employee at no instructional cost to the employee or the employer. This guarantee is in effect for two years after graduation.

**TEACH Act:** According to the TEACH Act of 2002, Athens Technical College is obligated to advise you that instructional material included in this course may be subject to copyright protection. As such, you must not share, duplicate, transmit, or store the material of this course beyond the purpose and time frame explicitly stated in the syllabus of your course. If you are not certain whether a particular piece of material is covered by copyright protection, you should contact your instructor and obtain his/her written clarification. Failing to observe copyright protection is a violation of law.