



Autobody, Motorsports & Customs Syllabus

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Course Description:

Students will be introduced to the fields of Autobody, Motorsports and Customs (AMC). This field requires a thorough understanding of how an automobile is constructed.

Students in AMC will use top-of-the-line equipment and technology such as DeVilbiss semi downdraft paint booth, PPG Aquabase paint mixing system, and commercial quality vinyl cutting machine. The curriculum focuses on mechanics, body repair and replacement, sanding, masking, painting, and the use of high tech spray equipment. With permission from the instructor, students may work on “live jobs” brought in by the local community or participate in Cooperative Education opportunities.

This program is NATEF (National Automotive Technicians Education Foundation) certified. Students have the opportunity to participate in the Automotive and Collision Enthusiasts Club (ACE) as their Career Technical Student Organization (CTSO).

With the completion of this program, students have had success entering directly into the workforce or going to post-secondary education.

Units of Study:

- HACTC Rules and Expectations
- Safety Modules/Tool Safety
- Basic Dent Repair
- Welding/ Oxy-fuel & Plasma cutting
- Body Filler
- Application of Primer
- Paint Mixing
- Masking/taping
- Paint and Refinishing
- Custom Paint
- Power Buffing and Polishing
- Glass Replacement
- Plastic Repair
- Estimating
- Basic Body Repair Skills (BBRS) Panel
- Frame Repair
- Panel Repair

Classroom Expectations and Goals:

Students are expected to follow the HACTC Mission Statement: Respect. Engage. Learn. Work. Serve. Grow.

Students will maintain good attendance and arrive to class on time. They are expected to participate in all activities unless other arrangements have been made. AMC students will regularly work in Canvas learning management system, and on their Digital Assessment Tool (DAT).

Safety is a requirement. Absolutely no horseplay will be tolerated. Students are expected to wear proper Personal Protective Equipment (PPE) and follow dress code rules at all times. No food or drink will be allowed in the lab/shop during active program time. There will be no use of cell phones and or ear buds without instructor’s permission. The instructor decides who or how many will be working on any job in the shop.

AMC students will follow the expectations in the HACTC student handbook. The instructor reserves the right to review and change classroom expectation as needed.

Embedded Credit: Math or Science

Concurrent Enrollments Offered:

- Basic Collision Repair, Nashua Community College, 3 credits

Articulation Agreements:

- Nashua Community College

Grading Categories and Weights:

Communication	25%
Leadership & Teamwork	25%
Problem Solving/Critical Thinking	25%
Technical Skill	25%
Total	100%

Assignment Policy:

Class work will be handed in on time. Students that do not get class work handed in on the due date will have 10% deducted from the score for the first day, 20% deducted for the second day, 30% for the third day, and a 0 after that.

Industry Recognized Credentials:

- NATEF certification program
- S/P2 online safety training
- AED/CPR and first aid
- WorkKeys National Career Readiness Certification (NCRC)

Common Standards Assessed in Every Program:

Communication: ESS02.01 Select and employ appropriate reading and communication strategies to learn and use technical concepts and vocabulary in practice.

Leadership and Teamwork: ESS07.03 Employ teamwork skills to achieve collective goals and use team members’ talents effectively.

Technical Skill: ESS10.01 Employ information management techniques and strategies in the workplace to assist in decision-making.

Problem Solving/Critical Thinking: ESS03.01 Employ critical thinking skills independently and in teams to solve problems and make decisions (e.g., analyze, synthesize and evaluate).

Standards Unique to Autobody, Motorsports and Customs:

CCSS.ELA-LITERACY.W.11-12.10

Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences.

CCSS.ELA-LITERACY.RI.11-12.3

Analyze a complex set of ideas or sequence of events and explain how specific individuals, ideas, or events interact and develop over the course of the text.

CCSS.ELA-LITERACY.RST.11-12.5

Analyze how the text structures information or ideas into categories or hierarchies, demonstrating an understanding of the information or ideas.

CCSS.MATH.CONTENT.5.MD.A.1

Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems.

CCSS.MATH.CONTENT.6.RP.A.3.D

Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.