



Automotive Safety Fall 2011

Instructor Information:

Instructor Name	<i>Ryan Graap</i>
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WHS Phone #	<i>386-5500 ext: 628 or 612</i>

Course Information:

Course Number	<i>"Course #" 091211-1</i>
Section Number	<i>"Section #" AUT 115</i>
Start / End Time	<i>6:45am-9:15am</i>
Days of Class	<i>Monday-Friday</i>
Prerequisites Needed	<i>Basic and Advanced Automotive</i>

Course Description:

Upon completion of this course, students will demonstrate an understanding of the skills necessary to be a successful entry-level auto technician. This will include:

- ✓ Apply shop and equipment safety rules including hazardous materials.
- ✓ Evaluate, diagnose, and repair the automotive steering and suspension system.
- ✓ Evaluate, diagnose, and repair the condition of the automotive cooling/heating systems.
- ✓ Perform shop and equipment maintenance and repair.
- ✓ Diagnose and repair various automotive systems using the diagnostic scan tool and system information resources.
- ✓ Evaluate, diagnose, and repair the automotive brakes system.
- ✓ Disassemble, clean, measure/ evaluate, and re-assemble an automotive engine.
- ✓ Remove and replace an automotive engine from a vehicle.
- ✓ Evaluate, diagnose, and repair the automotive AC system.
- ✓ Demonstrate the ability to interact with others in a professional, courteous and tactful manner.

In addition, the students will learn welding skills and electronics as needed to prepare them for ASE certification

District Standards and Power Benchmarks

Power Standards:

1. Demonstrate the safe use and care of tools and equipment in an automotive environment.
2. Diagnose and repair various automotive systems.
3. Operate efficiently within the automotive repair shop setting.
4. Explore advanced transportation technologies.

Power Benchmarks:

1. Apply shop and equipment safety rules including hazardous materials.
2. Evaluate, diagnose, and repair the automotive steering and suspension system.
3. Evaluate, diagnose, and repair the condition of the automotive cooling/heating systems.
4. Perform shop and equipment maintenance and repair.
5. Diagnose and repair various automotive systems using the diagnostic scan tool and system information resources.
6. Evaluate, diagnose, and repair the automotive brakes system.
7. Disassemble, clean, measure/ evaluate, and re-assemble an automotive engine.
8. Remove and replace an automotive engine from a vehicle.
9. Evaluate, diagnose, and repair the automotive AC system.
10. Demonstrate the ability to interact with others in a professional, courteous and tactful manner

Course Information:

Auto Tech One is a 6 Block Elective Course.

Total of 3 credit hours upon completion

Prerequisites: Basic and Advanced Automotive

Course Outline/Calendar

Term #1

Students will complete safety documentation from the S/P2 safety program and print a certificate to return to the instructor. All students will become familiarized with all tools and equipment and learn how the automotive lab functions. Completing different tasks using the tools and equipment on either shop vehicles or customer vehicles will be required. The following tools and equipment will be learned: Three lifts and the alignment rack, floor jacks, all hand tools, all pneumatic tools, all power tools, all specialty tools, brake lathe, tire changing machine, tire balancing machine, strut dismounting machine, and acquire the functional ability of working in an automotive service environment.

Text/Other Required Materials/Resources

ALL students will be required to provide safety glasses (Z-87 approved) with clear lens and side shields. A three ring binder may be required to file all class work as a working study guide. All students are required to provide a pen or pencil and a notebook to be kept in the room for notes and different assignments each day. Students also are recommended to bring old clothes for lab work (old blue jeans, sweat pants, tennis shoes, and or cover-alls). Students will be required to reimburse the department for tools that are missing or damaged through abuse. Students and parents/guardians will be required to read, sign, and return a signed parental form.

Instructional Procedures & Support

Auto Tech I students can learn in a variety of settings. Lecture, demonstration, cooperative learning, chapter review questions, worksheets, and hands on lab work all are some of the methods of instruction. All students are expected to come to class everyday and on time. ALL assignments are to be turned in completed on time. ALL make-up will follow student handbook. Make-up work is the student's responsibility.

Classroom Management Procedures

- Be to class on time.
- Have notebook, pencil or pen everyday.
- Stay on task.
- Treat others with respect at all times.
- Listen when the instructor is speaking.
- Have a positive attitude.

Assessment Plan

Grades will be given for: daily performance, written quizzes, tests, projects and notebooks

Grading System

A	93 and above	Firm command of knowledge domain High level of skill development
A⁻	90 - 92	Exceptional preparation for later learning
B⁺	87 - 89	Command of knowledge beyond the basic concepts of knowledge Advanced development of most skills
B	83 - 86	Has prerequisites for later learning
B⁻	80 - 82	
C⁺	77 - 79	Command of the basic concepts of knowledge Demonstrates ability to use basic skills
C	73 - 76	Lacks a few prerequisites for later learning
C⁻	70 - 72	
I		The letter "I" indicates the student has not satisfactorily achieved the grade/course-level benchmarks and/or has missing work. "I" status is temporary and not a final grade. The letter "I" may affect athletic eligibility.
D⁺	67 - 69	Lacks knowledge of some fundamental ideas Some important skills not attained
D	63 - 66	Deficient in many of the prerequisites for later learning
D⁻	60 - 62	
F	59 and below	Most of the basic concepts and principles not learned Most essential skills have not been demonstrated Lacks most prerequisites needed for later learning

Student Signature: _____

Date: _____

Parent Signature: _____

Date: _____