



Name of School:

Name of Course: **Auto Technology I**

Instructor Information

Name:
E-mail address:
School phone number:
Web page address:
Best times to be reached:

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:

- Disassembly and rebuilding of an auto engine
- Effective use of computer diagnostic systems and equipment
- Rapid use of printed and computer diagnostic manuals
- Service and repair of automatic transmission systems including computer controlled systems and all-wheel drive systems
- Chassis service to include MacPherson struts and all-wheel alignment
- Automatic air conditioning

In addition, the students will learn welding skills and electronics as needed to prepare them for ASE certification. Completion of the Auto Technology sequence can earn one-year credit in the Scott Community College Auto Program.

District Standards and Power Benchmarks

Power Standards

Students will be able to:

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

Students will be able to:

1. Apply shop and equipment safety rules including hazardous materials.
2. Evaluate the condition of the automotive steering and suspension systems and repair as needed.
3. Evaluate the condition of the automotive cooling/heating system and repair as needed.
4. Perform shop and equipment maintenance and repair.
5. Evaluate the automotive emissions and powertrain management systems and repair as needed.
6. Evaluate the automotive AC systems based upon industry identified standards and repair as needed.
7. Overhaul an automotive engine.
8. Remove and replace an automotive engine from a vehicle.
9. Evaluate an automatic transmission/transaxle.
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

Students will be able to:

1. Demonstrate the safe use and care of tools and equipment in an automotive environment.
 - Apply shop and equipment safety rules including hazardous materials. (1)
 - Demonstrate the ability to interact with others in a professional, courteous and tactful manner. (10)

2. Diagnose and repair various automotive systems.
 - Evaluate the condition of the automotive cooling/heating system and repair as needed. (3)
 - Perform shop and equipment maintenance and repair (4)
 - Evaluate the automotive emissions and powertrain management systems and repair as needed. (5)
 - Evaluate the automotive AC systems based upon industry identified standards and repair as needed. (6)
 - Evaluate an automatic transmission/transaxle. (9)

3. Operate efficiently within the automotive repair shop setting.
 - Evaluate the condition of the automotive steering and suspension systems and repair as needed. (2)
 - Overhaul an automotive engine. (7)

4. Explore advanced transportation technologies.
 - Remove and replace an automotive engine from a vehicle. (8)

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. 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 and Pencil everyday
Stay on Task
Treat others with respect at all times

Assessment Plan

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

Grading System

90 - 100 A

80 - 89 B

70 - 79 C

60 - 69 D

0 - 59 F