

# Automotive Technology III

## Course Syllabus

### 1. Course Description

One term (1/2 credit). Elective open to grades 10, 11, and 12<sup>th</sup>. Automotive Technology III is a course with Major Outcomes in Theory of operation of:

Electrical systems

- Automotive computers
- Brakes – A.B.S.

Projects, activities, etc.: Work on personal vehicle as time and space allow

Instructional Focus: Theory of operation and related mathematics through hands-on activities

### 2. Course Outcomes

#### A. Safety

1. Understand and demonstrate proper safety procedures in the area of dress, eye hazard, behavior, and accident procedures
2. Understand and demonstrate safe operation of equipment and tools.
3. Understand safe handling and disposal of hazardous materials.
4. Understand and demonstrate safe storage and handling of flammable materials.
5. Understand and demonstrate proper shop maintenance and organization.

#### B. Principles of Operation

6. Identification of the basic components of Automotive Electrical systems, computers, and Brakes – A.B.S.
7. Understand and explain the operation of Automotive Electrical systems, computers, and Brakes – A.B.S.
8. Understand and explain the operation Automotive Electrical systems, computers, and Brakes – A.B.S.

9. Understand and explain the advantages and disadvantages different types of Automotive Electrical systems, computers, and Brakes – A.B.S.
10. Demonstrate knowledge of operation Automotive Electrical systems, computers, and Brakes – A.B.S.

### **3. Assessments**

- a. 25% Quizzes, test and final exam.
- b. 50% Assignments and laboratory activities.
- c. 25% Attendance, clean up, cooperation and attitude.
- d. Extra Credit determined by instructor of none required work

A= 100-90%

B= 89-80%

C= 79-70%

D= 69-60%

F= 59% or below

### **4. Posting of Grades**

- a. Grades will be posted on A-H Connect and updated every week or two depending on student workings.
- b. If more frequent grade identification is need it can be obtained threw e-mail. [francis.kratochvill@anoka.k12.mn.us](mailto:francis.kratochvill@anoka.k12.mn.us)
- c. 763-506-8479

### **5. Materials**

- a. Notebook, folder, and writing utensil
- b. Clothing to wear during lab activates
- c. Safety Glasses