

# Automotive Technology II

## Course Syllabus

### 1. Course Description

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

- Brake service
- Driveline service
- Suspension service

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 brakes, driveline and suspension.
7. Understand and explain the operation of brakes, driveline and suspension.
8. Understand and explain the operation brakes, driveline and suspension.
9. Understand and explain the advantages and disadvantages different types of brakes, driveline and suspension.

10. Demonstrate knowledge of operation brakes, driveline and suspension.

### **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