

## D.C. Everest Senior High Course Syllabus

### Basic Auto Mechanics

**Course Name:** Basic Auto Mechanics

**Course Length:** 1 Semester

**Credits:** ½ Credit

**Prerequisite:** None

**Course Description:** This is an introductory course dealing with the importance, construction, and operating principals of the modern automobile. It will provide the students the knowledge and skills necessary to service their vehicles with a basic set of tools in their own garage. Operating systems such as basic engine construction and operation, brakes, and electrical will be covered in both textbook (theory) and shop (practical) instruction.

#### **Learning Targets:**

Students will be able to:

1. Apply shop and equipment safety rules, including hazardous material.
2. Determine the identification, use, and care of shop tools and equipment.
3. Identify the basics of the different systems of today's automobiles.
4. Identify vehicle identifications and labels.
5. Service engine lubrication systems per manufacturer's specifications.
6. Demonstrate tire and wheel services.
7. Practice repair on brake assemblies.
8. Distinguish parts and operation of the cooling system.
9. Incorporate basic electrical system theory and service.
10. Demonstrate ignition system fundamentals.

#### **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 is 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**

Basic automotive 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 basic automotive 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. Late work will be accepted, but will lose a minimum of 10% each day being late. Students are expected to come on time and prepared for class with the appropriate class materials. Students will respect the rights of each individual, no ridicule, name calling, etc will be allowed. The District harassment policy will be enforced.

**Assessment Plan**

Grades will be earned based upon: daily performance, activity sheets, lab sheets, written quizzes, tests, and binder.

**What will I learn to do?**

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| <ul style="list-style-type: none"> <li>1. Evaluate Vehicle Condition and Value</li> <li>2. Change Oil</li> <li>3. Remove &amp; Replace Thermostat</li> <li>4. R &amp; R Hoses</li> <li>5. Dismount/Mount Tires</li> </ul> | <ul style="list-style-type: none"> <li>6. R &amp; R Battery, Alternator, Belt</li> <li>7. R &amp; R Disc Brake Pads</li> <li>8. Bleed Brake System</li> <li>9. R &amp; R Starter</li> <li>10. Tune-up—R &amp; R Spark Plugs, Wires, &amp; PCV</li> </ul> |
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**Grading Scale**

90 – 100	A
80 – 89	B
70 – 79	C
60 – 69	D
0 – 59	F

Student Name: \_\_\_\_\_ Date: \_\_\_\_\_

Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Guardian Name: \_\_\_\_\_ Date: \_\_\_\_\_

Guardian Signature: \_\_\_\_\_ Date: \_\_\_\_\_