

D.C. Everest Senior High Course Syllabus

Advanced Auto Mechanics

Course Name: Advanced Auto Mechanics

Course Length: 1 Semester

Credits: ½ Credit

Prerequisite: Basic Auto Mechanics

Course Description: A continuation of basic auto mechanics, this course deals with service procedures and repair techniques students would use in today's automotive service shops. It will provide lab experiences in a wide variety of vehicle services. The use of modern diagnosis protocols dealing with computerized controls will also be covered. Occupational outlook and preparation are stressed.

Learning Targets:

Students will be will able to:

1. Use tools and equipment safely while following all safety regulations.
2. Evaluate engine drivability with use of scanner, sensor testers, and fuel service equipment.
3. Incorporate advanced tire service techniques.
4. Perform cooling system services.
5. Service the brakes system.
6. Perform drive train service.
7. Compare suspension, steering, and wheel alignment fundamentals.
8. Evaluate the charging and starting systems.
9. Demonstrate basic auto body techniques.
10. Investigate the need for alternative fuel sources.

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

Advanced Auto Mechanics 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 Advanced Auto Mechanics

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 notebook.

What will I learn to do?

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|------------------------------------|---------------------------------|
| 1. Install Patch Plug | 9. R & R Wheel Bearing |
| 2. Coolant Flush | 10. R & R Tie Rod |
| 3. R & R Radiator | 11. R & R Strut and Shocks |
| 4. R & R Water Pump | 12. R & R Ball Joints |
| 5. Pressure Test Cooling System | 13. R & R Valve cover gasket |
| 6. R & R Transmission Filter/Fluid | 14. R & R Fuel filter |
| 7. Service Differential | 15. R & R O2 sensor |
| 8. R & R Axle shaft | 16. Scanner Use and Diagnostics |

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: _____