

AUTOMOTIVE TECHNOLOGY SYLLABUS

Department: Career and Technical Education (CTE) Automotive Program

Course Name: Automotive Technology (Basic, Auto 1, Auto 2, and Auto 3)

Instructor: Kyle Goseyun

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COURSE DESCRIPTION:

The Automotive Technologies program prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. The Automotive Technologies includes instruction in brake systems, electrical systems, engine performance, engine repair, suspension, and steering, automatic and manual transmissions and drive trains, and heating and air condition systems.

The Automotive Technologies program is delivered as a coherent sequence of courses designed to offer students knowledge and skills that meet the needs of the workplace. The Professional Skills developed by business and industry leaders across Arizona are integrated throughout the program. Automotive Technologies students develop leadership, social, civic, and career skills through participation in the state-recognized Career and Technical Student Organizations, SkillsUSA.

The Automotive Technologies instructional program prepares students for entry-level employment, further training, and/or post-secondary education for these and other occupations: Automotive Technician

ACCESS AND EQUITY:

This program is free from bias and stereotypes associated with race, color, national origin, sex and disabilities and are offered in ways that ensures all students have the opportunity to achieve success in the program, including through accommodations as appropriate.

LICENSE/CERTIFICATION:

Completing this 2 year program will prepare students to take the National American Service Excellence (ASE) tests in the Auto Maintenance and Light Repair Certification Test (G1) The student will have the opportunity to test in this one program areas.

PREREQUISITES:

Shop Basics

ATTENDANCE:

Class attendance and tardies are an important aspect of this course. Any student who will be absent on any given school day, for any given reason, will notify instructor via email PRIOR to the beginning of class. Attendance and Tardies will be handled according to the school policy. A required percentage of days attended is required to meet the competency requirement. Noncompliance will result in loss of any class credential.

LAB OUTLINE:

Students need to wear proper Personal Protective Equipment (PPE) and safety glasses rated at ANSI Z87 each day when they are working in the Auto Shop Area. A minimum distance of 6 feet will be observed while in the shop and sanitation procedures will be included in the daily clean up requirement. Keep the shop clean and free of hazards. Report unsafe conditions or injury to teachers. Keep shop area and classroom neat and clean. Clean and return all tools and equipment to their proper places. Follow shop and machine safety rules at all times. Avoid talking to, or otherwise distracting, machine operators. Avoid running, throwing of objects, "horse playing," and making unnecessary loud noises in the Auto Shop area. Students need to read and sign Shop Safety Agreement and also follow shop and machine safety rules at all times. If a student doesn't follow the Auto/Technology rules every day that student will be sent to classroom and will receive 0. The Automotive students are required to work and help in the Alchesay Automotive Shop for more than 51% of their time in class. The work-based learning will happen every Tuesday and Wednesday. They are required to help in making inventory, quotes, work orders and customers parts list.

CURRICULUM:

Modern Automotive Technology 11th Edition

GRADING FACTORS:

Grading factors will be adjusted according to all students Individualized Education Program (IEP). For those students requiring special attention or teaching efforts, every attempt to accommodate their requirements within safety limitations will be followed.

CLASSWORK:

Bell-work, Class participation, Classroom Assignments, Chapter Tests, daily clean-up.

ASSESSMENTS:

Daily reflections, Quarter Exams, Practical (hands-on) task performance (competency completion), Chapter Technical Terms, ASE questions and review questions, weekly workplace readiness assessments, and any projects assigned by the Instructor. It is the student's responsibility to keep up with assignments and catch up with missing work.

IMPORTANT NON-DISCRIMINATION:

Whiteriver Unified School District does not discriminate on the basis of race, color, national origin, sex, sexual orientation, age, religion, or disability in admission or access to, or treatment or employment in, its educational programs or activities. Inquiries concerning Title VI, Title VII, Title IX, Section 504, and Americans With Disabilities Act may be referred to Superintendent Office, 959 South Chief Avenue (PO Box 190), Whiteriver, Arizona 85941, (928) 358-5800, or to the Office for Civil Rights, U.S. Department of Education, 1244 Speer Boulevard, Denver, Colorado 80204. [Click here to learn more](#)

Extra Credit:

During the year there will be opportunities to obtain extra credit. Participation in and volunteering to help at our club related or class related activities. Or any other opportunity as determined by the instructor. Extra credit points will be assigned at the discretion of the instructor and will be applied to the weekly workplace readiness summative evaluation.

GRADE CLASSES: With Modern Automotive Technology

Section 1 Introduction to Automotive Technology and Foundational Workplace Skills
Section 2 Engine Design, Diagnosis, and Repair
Section 3 Automatic Transmission and Transaxles
Section 4 Manual Transmission/Transaxles and drive trains
Section 5 Suspension and Steering Systems
Section 6 Brake Systems
Section 7 Electricity and Electronics Systems
Section 8 HVAC Systems
Section 9 Engine Performance and Emission Control System
Section 10 HEV/PHEV/EV System and Service
Section 11 Advance driver Assistance System and Service

Freshman Year

Section 1

Sophomore Year

Sections 2, 3, and 4

Junior Year

Sections 5, 6, and 7

Senior Year

Sections 8, 9, 10, and 11

MATERIALS:

- *Recommended Personal Protective Equipment (PPE): Mechanic gloves, non-slip sole, protected toe work boot/shoes, work shirt, Hair ties.
- *Glasses on site are provided by the program. But your welcome to bring your own from home that are ANSI Z87 rated.
- *Shop gloves (rubber/welding) are provided
- *Hand Cleaner Provided on site
- *Tools and Supplies for shop class provided
- *Automotive Curriculum Provided on site

GRADE SCALE:

90-100% =A	Excellent
80-89% =B	Above Average
70-79% =C	Average
60-69% =D	Below Average
50-59% =F	Failing
P	Passing
I	Incomplete

STATE ASSESSMENT:

The state test is a requirement to all seniors. Seniors should pass the state test with 60%. By passing the test, they can be exempted in taking the final exam.

SKILLS USA:

SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. SkillsUSA helps each student excel. We provide educational programs, events and competitions that support career and technical education in the nation's classrooms. SkillsUSA serves middle-school, high-school and college/postsecondary students preparing for careers in trade, technical and skilled service (including health) occupations. Juniors and seniors can join this club and attend the SkillsUSA Conferences throughout the school year.

Safety:

Because safety is a primary concern in this class, all participants are required to return a shop safety contract prior to attending shop activities. Please read and return attached sheet signed to instructor. You need to have attachment on file prior to attending shop activities.

Name: _____ Date: _____ Class: _____

General Safety Precautions-General Policies and Conduct Agreement General Safety Precautions

All students are to follow the following general safety precautions:

1. Keep work areas in a neat and orderly condition.
2. Keep all tools and equipment clean.
3. Use air hoses safely. Compressed air is dangerous.
4. Familiarize yourself with location of fire extinguishers in the classroom and lab area.
5. Floor jacks are for lifting vehicles only. After the vehicle has been lifted, place safety stands under the frame, suspension, or other approved lifting point.
6. Remove any jewelry and tie up hair before lab.
7. Students must wear safety glasses in the lab area.
8. Students are expected to behave in a professional manner; perform assigned duties with an attitude of responsibility, striving to perform tasks to the best of their ability, either alone or in a group environment.
9. No foul language may be used at any time.
10. Playing and Messing around in the shop, classroom or building will not be tolerated at any time.
11. No student's car may be parked in the Automotive Shop area unless approved by the instructor and scheduled for work on that day.
12. Students may not enter any vehicle in the lab area without permission.
13. In the event of a fire drill, students will stop work IMMEDIATELY and will exit from the building in a planned and orderly manner.
14. No use of cell phones, pagers, and electronic gadgets in the lab areas during class.

I have read and understand that safety is very important to Mr. Goseyun. I understand the rules set in place is for my safety as well as my fellow classmates. I have read these rules with my Parents/Guardians, they will acknowledge the Safety protocols that are used in the automotive shop while we as a class utilize the Automotive Shop. I understand the negligence of the rule may result in loss of shop grade or injury.

Students Printed Name: _____

Students Signature: _____

Parent/Guardian Printed Name: _____

Parent/Guardian Signature: _____

Parent/Guardian Contact Number: _____