

AUTOMOTIVE TECHNOLOGY SYLLABUS

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COURSE DESCRIPTION:	<p>The automobile is a composite of many complex systems. These systems require routine maintenance, diagnosis and service. Service Technicians face the challenge of the systems found in the automobile and the interrelationships of the systems. Through a combined effort of Tuscola Technology Center Automotive Technology Instructor, industry representatives, National Automotive Technicians Education Foundation (NATEF), National Institute for Automotive Service Excellence (ASE) and the Department of Vocational and Technology education, a newly revised curriculum has been developed to assist students in becoming the leaders in a rapidly changing career.</p> <p>The curriculum is designed to help students achieve the necessary understanding of automotive principles through a variety of experiences including actual lab activities. For the upcoming year the Auto Technology program will be using the new Maintenance and Light Repair Program standards. These standards reflect the changing needs of the Automotive Industry for entry-level technicians. This will allow the Automotive Program to teach across all systems to better prepare students to maintain today's vehicles. This new accreditation model reflects the real-world needs of employers for entry-level technicians. The goal of this program is to provide students with broad based knowledge and skills necessary for employment in the automotive industry. Students will be exposed to many careers which require the same basic knowledge of the automobile.</p> <p>The course is reflective of national automotive training standards established by the National Institute for Automotive Service Excellence (ASE). The eight recognized areas of automotive repair will be addressed in this program. The eight areas include engine repair, automatic transmission and transaxle, manual drive train and axles, suspension and steering, brakes, electrical systems, and heating and air conditioning systems. In addition, the program will begin with an introduction to automotive technology course which will cover those areas that are genetic to all areas of automotive repair, such as tools, safety, materials, communication skills and employability skills.</p> <p>A total of six credits may be earned by completing the Automotive Technology Program. Students may enter this program in grades 9-12. Courses must be schedule in uninterrupted two- or three-hour blocks.</p> <p>When offered in 2 ½ hour blocks, two exit points are available, which are upon completion of Automotive Technology first year and second year.</p> <p>Each student entering the automotive program will receive a battery of tests to assist in providing proper placement and special services. A reading test will be administered to determine the reading level of each student. Results will be used to assist the student in improving their reading and comprehension. The High School Proficiency Test (HSPT) will be administered at the home school, which tests the knowledge of mathematics, science, communications and writing skills. These tests may be used by the program instructors and counselors to improve the educational experience at the Technology Center. A mechanical aptitude test is also administered to gain an understanding of each student's natural mechanical ability. At no time will the results of testing be used to prevent students from entering a program.</p>		
COURSE GOALS & OBJECTIVES:	<p>The primary goal of the cooperative method of vocational education is to prepare skilled, responsible individuals who can assume a productive role in the community. Specific objectives to meet the primary goals are:</p> <ul style="list-style-type: none"> • To prepare individuals for employment, adjustment and advancement in specified 		

	<p>occupations or occupational areas (primary objective)</p> <ul style="list-style-type: none"> • To provide an understanding of the contribution of work to the social and economic welfare of our nation • To provide students with an understanding and appreciation of the American Free enterprise system • To foster an awareness of the civic, social and moral responsibilities of individuals to society • To stimulate students' interest in their chosen occupational fields and provide an understanding of the opportunities in each field • To provide training that results in increased efficiency in performing job tasks • To provide curriculum which is sensitive and adaptable to changes in occupational practices and procedures as they are affected by societal, economic, technical and educational developments • To strive to develop a greater appreciation of the value of specifically trained personnel among employers, employees and consumers • To reinforce skills learned in the school laboratory • To provide experiences with tools and equipment not available in the school library • To supplement and broaden the school curriculum into areas not otherwise available
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<p>ATTENDANCE POLICY AND GRADE REDUCTION</p>	<p>The Tuscola Technology Center places a high priority on attendance because the attendance pattern established by the student in school often sets an attendance pattern for employment. To benefit from the primary purpose of the school experience, it is essential that each student maintain regular and punctual attendance. Class attendance is necessary for learning and academic achievement as well as for developing the habits of <u>punctuality, dependability, and self-discipline demanded by business and industry</u>. Regular attendance in the Technology Center's labs is essential to allow students to fully participate in class instruction, discussion and skill development. Absences beyond eight days per semester are considered excessive. Both excused and unexcused absences are charge in the student total.</p>
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<p>STUDENT ASSESSMENT</p>		
	A	93
	A-	90
	B+	87
	B	83
	B-	80
	C+	77
	C	73
	C-	70
	D+	67
	D	63
D-	60	
E	0	

The system by which a student EARNs his/her grade has been developed and refined over the years to be as objective and fair as possible.

The system is as follows:

1. Skill Training - 70% of the total grade consists of combination of a shop grade and/or work experience (if applicable), a competency test given at the end of each semester, and a daily grade that will be given to a student every day whether the student is working in the lab or is in the classroom. There is total for the marking period of 4500 points for the daily grade sheet. The breakdown is as follows:
Shop Grade is/are:
 - Earned on a daily basis
 - Based on quality & quantity of work performed (clean-up included)
 - Earned only when the student is working in the shop
 - Available for students to see and discuss each day
 - Based upon a student's work habits
 - Daily Grade Sheet filled out correctly

Daily Grade Sheet will be given to the student each day the student is in class. It will be based on

	<p>the following items:</p> <ul style="list-style-type: none"> • Safety • Follows direction • Responsibility/Dependability • Initiative • Job Performance <p>2. Competency Test will be 10% of the students' grade and will be given at the end of the marking period. Usually it takes about three to four days to complete. The student is responsible to perform the task given to them and perform it for the instructor to evaluate the student's outcome. The competency will cover material that was covered during the marking period.</p> <p>3. Test and Homework Assignments will be given over the period of the school year. Usually they will be due on each Friday and will be graded on a Tuesday. There will be ten assignments and test given on each Friday and will be graded on Tuesday. There will be ten assignments and test given each marking period. These test and assignments will make up 20% of the student's grade. These assignments and tests are related to the subject matter that is to be covered in the lab. A student is required to keep a notebook in class and it will be their responsibility to keep all handouts and various materials that the instructor has given them in a neat and organized matter.</p>
CERTIFICATE REQUIREMENTS	
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ARTICULATED CREDIT	<p>Articulation Agreements are in place for students desiring additional training at the post secondary level. Students will be granted credit for those competencies completed during the secondary program. Total program completers will be given advance placement status in associate degree programs offered through General Motors and Ford Motor Company, as well as certificate programs which are available at the vocational technical center.</p>
PROGRAM SUPPLIES	
YOUTH CLUB	<p>SkillsUSA is the student organization which reinforces classroom studies by providing communications, leadership, human relations and employability skills. SkillsUSA also reinforces specific vocational skills. The Automotive Professional Development Program designed by the automotive industry for SkillsUSA is the recommended medium for leadership, employability and human relations instruction. This highly successful program is based on the foundation of performance awards.</p> <p>Membership in SkillsUSA offers the student the opportunity for growth and development in the following areas:</p> <p>School and Community Service Activities - Students in SkillsUSA become involved in various school and/or community services. These may include clothing or food collections for the needy, donation of time and service to the elderly and participation in fundraisers or similar activities.</p> <p>Social Interaction with Fellow Students – Activities are also available that offer students time for relaxation and fun. Social activities of this type may be held on a regular basis. They might be held on the school campus during school hours or off campus after school.</p> <p>SkillsUSA offers various contests in all the skill and leadership areas it serves. Often, teachers identify talented students who represent their school in regional competitions. However, any student member of SkillsUSA may compete. Instructors should conduct planned contest within their trade areas. This also pertains to leadership areas. First and second place regional winners then move on to the state level contest. The state winners then compete at the national level of the United States Skill Olympics.</p> <p style="text-align: center;"><i>The instructor reserves the right to make adjustments to this syllabus as needed.</i></p>