

DEPARTMENT: TECHNOLOGY EDUCATION	COURSE TITLE: CONSUMER AUTO COURSE NUMBER: 516
GRADE(S): 10-12	PRE-REQUISITES (IF ANY): NONE

UNIT	LENGTH	CONTENT	SKILLS	METHODS OF ASSESSMENT	FRAMEWORK STRAND(S) & STANDARD(S)
Introduction	1 week	<ul style="list-style-type: none"> Safety rules Lab layout 	Students will: <ul style="list-style-type: none"> Work safely and efficiently in the shop. Know where things are and what is expected of them. 	<ul style="list-style-type: none"> Quiz and daily observation 	STE: S-4, 9/10, 7.2
Tools and Equipment	1 week and on going	<ul style="list-style-type: none"> Automotive hand and power tools Proper use of auto and shop equipment 	Students will: <ul style="list-style-type: none"> Know the names of the tools and equipment in the shop and how to use them properly. 	<ul style="list-style-type: none"> Quiz and daily observation 	STE: S-4, 6/8, 2.2, 2.3, 4.4 ITRS: (9-12) 1.23, 3.8
Major Auto Components	1 week	<ul style="list-style-type: none"> Engine Drivetrain Body and chassis 	Students will: <ul style="list-style-type: none"> Identify the major parts of a car. 	<ul style="list-style-type: none"> Oral quiz Worksheet/home work 	STE: S-4, 6/8, 4.1, 4.2, 6.3, 6.4
Engine Theory and Parts	2 weeks	<ul style="list-style-type: none"> Two and four cycle, gas and diesel engine types Engine styles, shapes, number of cylinders, arrangement and valve layouts 	Students will: <ul style="list-style-type: none"> Explain how different engines work. Identify the parts of the different types of engines. 	<ul style="list-style-type: none"> Test Worksheet/home work 	STE: S-4, 6/8, 4.2, 9/10, 3.3
Lubrication System and Lube Oil and Filter	2 weeks	<ul style="list-style-type: none"> Importance of adequate oil supply 	Students will: <ul style="list-style-type: none"> Check oil and fluid levels. Change the oil and filter, and know what kind of oil to use. 	<ul style="list-style-type: none"> Lube oil and filter job on a car 	STE: S-4, 9/10, 4.1, 4.4
Cooling System	1 week	<ul style="list-style-type: none"> Purpose of cooling system 	Students will: <ul style="list-style-type: none"> Check the coolant level and tell if the antifreeze is still good. Drain and flush the system. 	<ul style="list-style-type: none"> Quiz and observation Worksheet/home work 	STE: S-4, 9/10, 4.1, 4.2, 4.3, 4.4, 4.5
Wheels and Tires	1 week	<ul style="list-style-type: none"> Tire wear and repair 	Students will: <ul style="list-style-type: none"> Understand the construction of a tire. Rotate, inflate to proper specifications, remove and mount, and static balance tires. 	<ul style="list-style-type: none"> Quiz and observation 	STE: S-4, 6/8, 2.3
Brakes	1 week	<ul style="list-style-type: none"> Function of the brake system 	Students will: <ul style="list-style-type: none"> Check brake condition and brake fluid levels. Explain how different brakes work in a car. 	<ul style="list-style-type: none"> Test Worksheet/home work 	STE: S-4, 9/10, 3.1, 3.4, 3.5, 3.6
Suspension	½ week	<ul style="list-style-type: none"> Suspension system purpose and maintenance/repair 	Students will: <ul style="list-style-type: none"> Inspect and identify the different parts of the suspension system. 	<ul style="list-style-type: none"> Test/quiz Worksheet/home work 	STE: S-4, 9/10, 2.3

The electrical system	½ week	<ul style="list-style-type: none"> Interconnected elements of a cars electrical system 	<p>Students will:</p> <ul style="list-style-type: none"> Service, charge, replace and jump -start a battery. Change spark plugs and other related tune up parts. 	<ul style="list-style-type: none"> Observation 	STE: S-4, 9/10, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6
Basic and preventive maintenance	On going	<ul style="list-style-type: none"> Personal responsibility for car maintenance 	<p>Students will:</p> <ul style="list-style-type: none"> Develop a schedule of daily, weekly, monthly and yearly car checks. 	<ul style="list-style-type: none"> Oral or written test/quiz and observation 	STE: S-4, 9/10, 1.1
How to buy a car	1 week	<ul style="list-style-type: none"> Considerations in buying a vehicle 	<p>Students will:</p> <ul style="list-style-type: none"> Research and develop a plan to buy a car. Learn about insurance, registration, and inspections for the vehicle. 	<ul style="list-style-type: none"> Oral report and preparation materials 	
Internet list project	On going	<ul style="list-style-type: none"> Use of Internet car sites 	<p>Students will:</p> <ul style="list-style-type: none"> Develop a list of auto related web sites to share with the class. 	<ul style="list-style-type: none"> Written reports 	ITRS: (9-12) 2.2-2.5