**C A R C A R E - S Y L L U B U S**

**Instructor:** Mr. Casper **Classes that may enroll:** 10-11-12 **Room**: 123 **Credits:** 0.5

**Book:** Modern Automobile Technology **Prerequisites:** None  **Course #:** 08710

**Contact Information:**

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**Course Description:**This, very basic, course will inform students about common automotive maintenance techniques. Students will be able to identify basic car parts, complete routine automotive maintenance, and diagnose basic automotive problems. The purpose of this course is to help students know what to look for when purchasing a vehicle, purchasing vehicle insurance, and preventing them from being overcharged by a repair shop.

*This class will fulfill the prerequisite for Auto/Transportation Tech. beginning the 2016-17 school year.*

**Grading Scale:**

* 1. = A

89-80 = B

79-70 = C

69-60 = D

0-59 = F

**Gradebook:**

60% Labs

10% Assessments

10% Quiz

20% Participation   
*Final Exam 20%*

**Assessments:**

* See “Lab Activity” sheet for a list of assignments.
* Students are encouraged to complete homework assignments outside of class to maximize lab time
* Drop Box: Place all assignments, quizzes, and tests in the dropbox above the folder.
* Cheating/Plagiarism: Cheating or plagiarism will result in a 0% for the assignment/task.

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**Missing/Late Work:**

* It is the student’s responsibility to acquire assignments when absent.
* Students are granted 1 day per excused absence. Late work = 10% deduction
* Late work will not be accepted during the last week of each quarter.

**Topics & Activities:**

Housekeeping, Buy Sell Own, Tool Identification, Automobile & Shop Safety, Preventative Maintenance, Fasteners & Gaskets, Lubrication Systems, Cooling Systems, Brake Systems, Tires, Suspension, Steering, Fuel Systems, Starting & Charging, Ignition Systems, Diagnostics, Electrical Systems, Transmissions & Drivetrain Systems, Lab Activities – Second & Fourth Quarter

**2017-18 CAR CARE LAB ACTIVITIES**

**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **System** | **Lab (60%)**  **“C”** | **Points** | **Homework (10%)**  **“B”** | **Quiz (10%)**  **“A”** |
| **Routine Maintenance** | Wash & Wax  Interior Detail  Wiper Blade R&R  Cabin Filter R&R  Fluid Level Check  PCV/CCV R&R  Serpentine Belt R&R | \_\_\_/ 1  \_\_\_/ 1  \_\_\_/ 1  \_\_\_/ 2  \_\_\_/ 2  \_\_\_/ 3  \_\_\_ /3 | HSW: Winterizing Your Car  \_\_\_/14 | Chapter 10 Review & ASE  \_\_\_/20 |
| **Lubrication** | Grease Job  Oil & Filter Change  Differential Fluid Service  Trans Drain & Fill / Filter R&R | \_\_\_/ 1  \_\_\_/ 3  \_\_\_/ 4  \_\_\_/ 5 | Valvoline Oil DVD Worksheet  \_\_\_/10 | Oil & Lubrication Quiz  \_\_\_/19 |
| **Tires, Suspension, Steering** | Tread Depth & Pressure Check All  Wheel Stud R&R  Power Steering Bleed  Tire Repair (Plug or Patch)  Valve Stem R&R  Jack in Trunk  Tire Rotation  Tire Mount & Balance | \_\_\_/ 1  \_\_\_/ 1  \_\_\_/ 1  \_\_\_/ 1  \_\_\_/ 2  \_\_\_/ 3  \_\_\_/ 3  \_\_\_/ 3 | HSW: Tires, Steering, Suspension  \_\_\_/42 | Tires Steering Suspension Quiz  \_\_\_/65 |
| **Electrical** | Dome Light R&R  Relay R&R / Swap  Fuse testing  Trailer Light Testing  Headlight Bulb R&R  Taillight Bulb R&R  MIL & ABS Scan | \_\_\_/ 1  \_\_\_/ 1  \_\_\_/ 1  \_\_\_/ 1  \_\_\_/ 2  \_\_\_/ 2  \_\_\_/ 3 | Wire Aftermarket Car Stereo  \_\_\_\_/20 | Chapter 8 Review  \_\_\_/20 |
| **Starting & Charging** | Battery Charging  Jump Start (Charger & Cables)  Battery & Terminal Cleaning  Battery Load Test  Starter Jump Test  Battery – Specific Gravity Test  Accuracy Plus System Test | \_\_\_/ 1  \_\_\_/ 1  \_\_\_/ 1  \_\_\_/ 1  \_\_\_/ 2  \_\_\_/ 2  \_\_\_/ 3 | HSW: Alternators  \_\_\_/17 | Starting & Charging Quiz  \_\_\_/48 |
| **Cooling** | Freeze Protection Test  Coolant Test Strip  Coolant Pressure Test  Radiator Cap Pressure Test  Thermostat R&R w/ boil | \_\_\_/ 1  \_\_\_/ 1  \_\_\_/ 1  \_\_\_/ 1  \_\_\_/ 3 | HSW: Cooling Systems  \_\_\_/23 | Cooling Systems Quiz  \_\_\_/57 |
| **Ignition** | Clean & Gap a Spark Plug  Spark Test (3+ cylinders)  Wire Resistance Test  R&R 3 Spark Plugs  Compression Test (3+ cylinders) | \_\_\_/ 1  \_\_\_/ 1  \_\_\_/ 2  \_\_\_/ 3  \_\_\_/ 3 | HSW: Ignition Systems  \_\_\_/15 | Ignition Systems Quiz  \_\_\_/20 |
| **Brakes** | Disk Brake R&R  Drum Brake R&R  Bleed Bleeding (2 corners min) | \_\_\_/ 3  \_\_\_/ 4  \_\_\_/ 5 | HSW: Disk & Drum Brakes  \_\_\_/30 | Brake Systems Quiz  \_\_\_/60 |
| **Fuel** | Air Filter R&R  Throttle Body Cleaning  Fuel Pressure Test  Mass Air Flow Cleaning  O2 Sensor R&R  Fuel Filter R&R | \_\_\_/ 1  \_\_\_/ 2  \_\_\_/ 2  \_\_\_/ 2  \_\_\_/ 3  / 4 | HSW: Fuel Systems  \_\_\_/19 | Fuel & Emissions Quiz  \_\_\_/45 |