

DE ANZA COLLEGE
AUTOMOTIVE TECHNOLOGY

GREEN SHEET

AUTOMOTIVE TECHNOLOGY 50B Applied Automotive Principles Winter 2016

Instructor: Keith Zimbauer **Phone:** TBA **Email:** TBA

Office: Back of tool room **Office Hours:** Thursday, time: TBA

4 hours lecture/lab per week – 48 hours lecture/lab per quarter 2 units

Prerequisite: AUTO 50A (may be taken concurrently)

Advisories: English writing 100B and Reading 100 or Language Arts 100, or ELS 24 and 72 or ELS 4; Mathematics 101 or 112

Basic lecture-laboratory experiences in automotive repair and maintenance as related to the engine and its supporting systems.

- Course Objectives
 - Students will gain a basic understanding of the operation and maintenance of the automobile with hands-on experience.
 - Students will learn safety and economics in vehicle repair and maintenance.
 - Students will learn the skills needed for practical application of principles.
- Essential Student Materials
 - Text: Gilles, Tim Automotive Service 2nd Edition Delmar
 - Safety glasses
 - Clean work clothes and shoes
 - Shop towels
 - Handout packet
 - Lab fees
- Description of Content
 - Introduction to engine testing
 - Lubrication systems
 - Cooling systems
 - Electrical fundamentals
 - Battery service
 - Starter service
 - Alternator service
 - Ignition systems
 - Fuel systems – carburetion – fuel injection

- Lighting systems
- Methods of Evaluation
 - Lab performances and written lab reports (60% of grade)
 - Written final exam (20% of grade)
 - Lab performance final exam (20% of grade)
- Attendance Policy
 - Maximum 2 absences – on the 3rd you will be dropped.
 - Students may not bring friends or relatives to classes or labs.
- Tool Loan Policy
 - Students may check out tools from the Tool Crib staff in order to complete assigned lab exercises only.
 - Students must wear safety glasses and identification when checking out tools.
 - Tools that are lost while checked out will be billed to the student and participation in class will be restricted until such bill is paid.
 - It is the student's responsibility to make sure tools are checked in when returned to the Tool Crib staff.
- Disruptive Behavior
 - De Anza College will enforce all policies and procedures set forth in the Standards of Student Conduct (see web page, schedule, catalog). Any student disrupting a class may be asked to leave that class. After administration review, student may be allowed to return to class.
 - No cell phone interruptions. Turn cell phones off or to vibrate mode during class time.
 - No eating, drinking sodas, or chewing tobacco in the classroom.
 - Smoking in designated areas only – bus your butts