

DE ANZA COLLEGE  
AUTOMOTIVE TECHNOLOGY

GREEN SHEET

AUTOMOTIVE TECHNOLOGY 50B

Applied Automotive Principles

Instructor: Bill Wishart

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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 ESL 24 and 72 or ESL 4; Mathematics 101 or 112

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

II. Course Objectives

- A. Students will gain a basic understanding of the operation and maintenance of the automobile with hands on experience
- B. Students will learn safety and economics in vehicle repair and maintenance
- C. Students will learn the skills needed for practical application of principles

III. Essential Student Materials

- A. Text: Gilles, Tim Automotive Service 4<sup>th</sup> Edition Delmar
- B. Safety glasses
- C. Clean work clothes and shoes
- D. Shop towels
- E. Handout packet
- F. Lab fees

IV. Description of Content

- 1. Introduction to engine testing
- 2. Lubrication systems
- 3. Cooling systems
- 4. Electrical fundamentals
- 5. Battery service
- 6. Starter service
- 7. Alternator service
- 8. Ignition systems
- 9. Fuel systems – carburetion – fuel injection
- 10. Lighting systems

V. Methods of evaluation

- A. Lab performances and written lab reports (60%)
- B. Written final exam (20% of grade)
- C. Lab performance and written lab reports (60% of grade)

VI. Attendance policy

Maximum 2 absences – on the 3rd you will be dropped  
Students may **not** bring friends or relatives to classes or labs

VII. Tool Loan Policy

- A. Students may check out tools from the Tool Crib staff in order to complete assigned lab exercises only.
- B. Students must wear safety glasses and identification when checking out tools.
- C. 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.
- D. It is the student's responsibility to make sure tools are **checked in** when returned to the Tool Crib staff.

VIII. Disruptive Behavior

- A. 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 administrative review, student may be allowed to return to class.
- B. No cell phone interruptions. Turn phones off or to vibrate mode during class time.
- C. No eating, drinking sodas, or chewing tobacco in the classroom.
- D. Smoking in designated areas only – bus your butts.