

DE ANZA COLLEGE
AUTOMOTIVE TECHNOLOGY

GREEN SHEET

AUTOMOTIVE TECHNOLOGY 51B

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 51A (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: suspension, steering, braking, and drive line components.

II. Course Objectives

The student will be able to properly:

- A. diagnose tire wear and properly change and repair tires
- B. service wheel bearings
- C. diagnose suspension problems and change shock absorbers
- D. service manual transmissions
- E. service automatic transmissions
- F. adjust a clutch
- G. inspect brake systems
- H. service the differential

III. Essential Student Materials

- A. Text: Gilles, Tim Automotive Service ^{4th} Edition Delmar
- B. Handout packet
- C. Clean work clothes and proper shoes
- D. Shop towels
- E. Lab fees

IV. Description of Content

1. Wheel and tire service
2. Suspension system service
3. Manual transmission service
4. Automatic transmission service

5. Clutch diagnosis and adjustment
6. Brake system inspection and adjustment
7. Differential service
8. Steering system inspection and diagnosis
9. Measuring tools and fasteners

V. Methods of evaluation

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

VI. Attendance policy

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