

DE ANZA COLLEGE  
AUTOMOTIVE TECHNOLOGY

INFORMATION SHEET

AUTOMOTIVE TECHNOLOGY 50A

Intro to Auto Principals

INSTRUCTOR: Michael Brandt

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OFFICE HOURS: 9:30 AM M&W, 5 PM T&TH

OFFICE: E11d

CLASSROOM: E12A

48 hours Lecture

4 Units

I. Catalog Description: A selective study of the automobile's engine systems. Knowledge and skills necessary for basic repair, maintenance, and troubleshooting today's engine systems. May be used to fulfill the prerequisite to the Automotive Technology Program.

II. Advisories: English writing 100B and Reading 100 or Lang. Arts 100, or ESL 24 and 72 Or 4; Mathematics 101 or 112

III. Course Objectives

- A. Students will gain basic understanding of the operation and maintenance of the automobile.
- B. Students will learn safety and economics in the operation of an automobile.
- C. Students will learn the basic knowledge to cope with the complicated aspects of car ownership.

IV. Essential Student Materials

- A. Notebook and pencil

V. Essential College Facilities

- A. Classroom

VI. Text and References: Giles, Tim. Automotive Service. 1<sup>st</sup>-~~4~~<sup>5</sup><sup>th</sup> Editions, Delmar

VII. Description of Content:

- 1. Introduction to engine theory
- 2. Lubrication systems
- 3. Cooling systems
- 4. Electrical fundamentals
- 5. Batteries

6. Starting systems
7. Charging systems
8. Ignition systems
9. Fuel systems – carburetion – fuel injection

#### VIII. Methods of Evaluation:

In the evaluation process it is necessary to decide what is to be measured. In this program the following items are to be evaluated.

- A. Four objective exams beginning the 3<sup>rd</sup> week.
- B. Comprehensive objective final exam.
- C. Attendance and class participation
- D. Grading scale: A = 90%, B = 80%, C = 70%, D = 60%
- E. Exams are primarily true/false and multiple choice format, some essay questions.
- F. No test copies are released.
- G. No make-up exams are given except by prior arrangement (see or call me).

#### IX. Attendance Policy:

1. Students will be withdrawn for excessive absence
2. Day classes: Maximum of 4 absences – on the 5<sup>th</sup> you will be dropped.
3. Evening classes: Maximum of 2 absences – on the 3<sup>rd</sup> you will be dropped.

#### X. Disruptive Behavior

- B. De Anza College will enforce all policies and procedures set forth in the *Standards of Student Conduct* (see catalog). Any student disrupting a class may be asked to leave that class. After administrative review, the instructor may drop the student from the class.
- C. Repeated cell phone interruptions will not be tolerated. Turn cell phones off or to vibrate mode during class.
- C. There will be no eating, drinks, or chewing tobacco in this classroom.
- D. Smoking in designated areas only – bus your butts.

- XI Student Learning Outcome – The student will be able to answer correctly, selected questions on the final exam concerning engine theory, lubrication, and basic electrical fundamentals.