

DE ANZA COLLEGE
AUTOMOTIVE TECHNOLOGY

INFORMATION SHEET

AUTOMOTIVE TECHNOLOGY 51A Intro to Auto Principals (Chassis Systems)

INSTRUCTOR: Michael Brandt
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OFFICE PHONE NO: (408) 864-8527
OFFICE HOURS: 9:30 AM M&W, 5 PM T&TH
CLASSROOM: E12A

48 hours Lecture

4 Units

- I. Catalog Description: A selective study of the automobile's chassis and drive line systems. Knowledge and skills necessary for basic repair, maintenance, and troubleshooting of today's chassis and drive line 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 automotive chassis systems.
 - B. Students will learn safety and economics in vehicle operation.
 - C. Students will learn the basic knowledge for practical application of principles.
- IV. Essential Student Materials
- A. Notebook and pencil
- V. Essential College Facilities
- A. Classroom
- VI. Text and References: Giles, Tim. Automotive Service. 1st-~~4~~⁵ Editions, Delmar
- VII. Description of Content:
- 1. Introduction to wheels and tires
 - 2. Suspension systems
 - 3. Steering systems
 - 4. Wheel alignment
 - 5. Measuring tools and fasteners
 - 6. Brake systems

7. Clutches
8. Driveshafts and U joints
9. Differentials
10. Manual transmissions
11. Transaxles

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 3rd 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 Students will be withdrawn for excessive absence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 5th you will be dropped.
3. Evening classes: Maximum of 2 absences – on the 3rd 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 drive line theory, clutch and transmission service and diagnosis.