

DE ANZA COLLEGE
APPLIED TECHNOLOGIES DIVISION

Degree Applicable

AUTOMOTIVE TECHNOLOGY 63D

Effective Quarter Fall 2003

I. Catalog Information

AUTO 63D Transmission Diagnostic and Repair Techniques 4 1/2 Units

Advisories: Automotive Technology 50A and 50B; English Writing 100B and Reading 100 (or Language Arts 100), or English as a Second Language 24 and 72 (or English as a Second Language 4); Mathematics 101.

Four and one-half hours lecture per week

Fifty-four hours lecture per quarter

Diagnostic and repair techniques for automatic transmissions and transaxles. Emphasis on development of diagnostic procedures and repair techniques. Preparation for Automotive Service Excellence (ASE) certification examinations A2 and A3.

II. Course Objectives

The student will:

- A. Identify and verify the customer complaint.
- B. Establish a diagnostic procedure to isolate the defective unit.
- C. Develop a repair procedure.
- D. Repair the unit.

III. Essential Student Materials

Safety glasses for lab demonstrations. If you do not have safety glasses you will **NOT** be allowed in the lab. The tool room will **NOT** loan out any glasses.

I recommend a laser pointer to help you point out items on the screen

IV. Essential College Facilities

Lecture classroom and automotive laboratory for demonstrations

V. Expanded Description: Content and Form

- A. Identification and verification of the problem
- B. Development of a diagnostic procedure
 - 1. Diagnostic tools and techniques
 - 2. Verification of defective unit

- C. Tear down, inspection and repair procedures for the defective unit
- D. Unit evaluation to confirm a successful repair

VI. Assignments

Reading assignments from textbook and handouts

VII. Methods of Evaluating Objectives

- A. Objective and written quizzes (given each Wednesday at the end of class)
- B. Completion of assigned tasks
- C. Midterm examination
- D. Final examination

Student Behavior - Students are expected to abide by the policies listed in the De Anza Winter schedule of Classes 2013. Student behavior, which violates these standards, may be cause for removal from this course. Students should obtain a copy of the “*De Anza College Resource Guide*”, if they desire more information.

VIII. Texts and Supporting References

- A. Text:
Automatic Transmissions and Transaxles by Tom Birch ISBN#978-0-13-262227-1
- B. References:
Manufacturers service manuals as required (provided as needed)

IX. Other Related Information

1. Instructor: Rick Maynard
2. Office: E14c
3. Office hour: 5:00 - 5:50 PM
4. Telephone: (408) 864-8704 Office
5. e-mail: maynardrick@fhda.edu

X. Calendar

- 5 Jan: Start of class
- 11 Jan: Last day to drop with fee refund or add to class
- 19 Jan: Holiday
- 21 Jan: Mid Term Exam
- 11 Feb: Final exam