

**DE ANZA COLLEGE
AUTOMOTIVE TECHNOLOGY
A.T. 63D - AUTOMATIC TRANSMISSION
DIAGNOSTIC & REPAIR TECHNIQUES
GREENSHEET**

Degree Applicable

AUTOMOTIVE TECHNOLOGY 63D

I. Catalog Information

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

Advisories: Automotive Technology 50A and 50B; Advisory: English Writing 100 and Reading 100 (or Language Arts 100), or English as a Second Language 172 and 173; Mathematics 101 or 102

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

- 1. Weekly objective and written quizzes.
- 2. Completion of lab activities.
 - Lab assignments MUST be turned in no less than 7 calendar days after they are assigned. Labs turned in after 7 days will not be scored.
- 3. Midterm examination
- 4. Final examination
- 5. Grading standards:
 - A = 90% of total points
 - B = 80% of total points
 - C = 70% of total points
 - D = 60% of total points
- 6. *Student Behavior* - Students are expected to abide by the policies listed in the De Anza Winter schedule of Classes 2012. 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 # 0-13-262227-0
- 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

Classroom and Lab Conduct

- A. Students will be dismissed from class for disruptive behavior per college policy.
- B. Wear safety glasses and work shoes for the duration of labs.
- C. Students are to remain in assigned areas through cleanup. There is one 20-minute break between lecture and lab. The instructor will check roll at start of lab.
- D. It is expected that work will be completed with pride and craftsmanship and that students will perform warranty services if necessary. If overtime is required, consider it the equivalent of homework.
- E. Cell phone must be turned off during all lecture and lab activities.
- F. Do not lie or cover up a mistake. If you break something, it is your duty to tell the instructor so that it can be repaired for the rest of the school to use. You embarrass yourself and your class if someone else finds it. And they will.

Security

It is understood that the facility and all within is exposed. It is therefore necessary that each and every student assume responsibility for their own security and that of other students and the department. To this end, observe the following guidelines:

- A. Watch out for fellow students' tools and secure them as well if necessary.
- B. Do not allow strangers to roam lab areas. Ask questions and secure unattended lab areas.
- C. If you unlock a door or cabinet outside of class time, lock it when done.
- D. Do not enter the tool room unless accompanied by your instructor.

Parking

Parking permits for use in designated areas are available in the Administration Building. Do not park in any shop space. These are reserved for shop activities. Cars parked improperly are subject to citation or will be moved.

X. Calendar

Start of class	January 04, 2016
Last Day for Adds	January 05, 2016
Census Date	January 06, 2016
Last Day for Refund	January 04, 2016
Last Day for Drops w/o W	January 05, 2016
Last Day for Drops	February 01, 2016
Mid term exam	January 20, 2016
Final Exam	February 10, 2016