

DE ANZA COLLEGE
AUTOMOTIVE TECHNOLOGY
A.T. 61A - AUTOMOTIVE BRAKE SYSTEMS
COURSE OUTLINE/GREENSHEET

I. AUTOMOTIVE TECHNOLOGY 61A

Catalog Description

AUTO 61A Automotive Brake 4.5 Units

Advisory: Auto 50A and B, Math 101, Read 91 and Ewrit
100B or ESL4 or LART 100

Four and one-half hours lecture per week

Fifty four hours lecture per quarter

Principles of operation automotive brake systems.
Repair, maintenance, and troubleshooting.

II. Course Objectives

The students will:

A. Define the basic design and operation of automotive
brake system

B. Classify the different types of automotive brake
systems.

C. Describe the industry accepted techniques for
maintenance, repair, and troubleshooting

D. Demonstrate the ability to troubleshoot and repair
these systems.

III. Essential Student Materials

Safety glasses
Approved Work Shoes
Approved work clothes

IV. Essential College Facilities

Lecture classroom and automotive laboratory for
demonstrations

V. Assignments

Reading assignments from textbook and handouts.

VI. Methods of Evaluating Objectives

- A. Objective and written quizzes (each Wed)
- B. Completion of lab assignments
- C. Midterm examination
- D. Final examination.
- E. Attendance per department policy
NOTE: two absences may be cause for dismissal from this course. The instructor will evaluate each individual situation. Continued tardiness may also be cause for dismissal.

VII. Texts and Supporting References

Texts:

- A. Prentice-Hall, **Automotive Chassis Systems**,
By James Halderman. 6th edition
- B. References
Manufacturers service manuals as required

VIII. 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
- 6. **STUDENT BEHAVIOR** - *students are expected to abide the policies listed in the De Anza Summer/Fall Schedule of Classes 2014. Student behavior which violates these standards may be cause for removal from this course. Students desiring more information should obtain a copy of the "De Anza College Resource Guide".*

IX 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. Do not leave campus on break.
- 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.

XI: 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.

XII: Calendar:

21 Sept. Start of class
21 Sept. Last day to drop w/refund or add
21 Sept. Last day to add
19 Oct. Last day to drop
7 Oct. MIDTERN EXAM
28 Oct. FINAL EXAM