

Syllabus

AUMT 2425/1025
Automotive Automatic Transmission and Transaxle

Automotive Technology

BRAZOSPORT COLLEGE

LAKE JACKSON TEXAS

PREPARED BY: Rick Underdahl
INSTRUCTOR

DATE: September 2015

RECOMMENDED BY: _____
DIVISION CHAIRMAN

DATE: _____

APPROVED BY: _____
DEAN

DATE: _____

The Brazosport College District shall not discriminate against, or exclude from participation in any benefits or activities either on the staff or in the student body, any person on the grounds of sex, race, color, religion, national origin, age or handicap.

BRAZOSPORT COLLEGE
500 COLLEGE DRIVE
LAKE JACKSON, TEXAS 77566

AUMT 2425
AUTOMOTIVE AUTOMATIC TRANSMISSION AND TRANSAXLE

COURSE DESCRIPTION

A study of the operation, hydraulic principles, and related circuits of modern automatic transmissions and automatic transaxles. Diagnosis, disassembly, and assembly procedures with emphasis on the use of special tools and proper repair techniques. May be taught manufacturer specific.(2-6)

COURSE FOCUS

This course will cover automatic transmissions and transaxles.

TEXT AND REFERENCES

Automotive Technology Curriculum

Author(s): [CDX Automotive](#)

- ISBN-13: 9781284027327
- Details:** • Online Course pages © 2015
Access Code Subscription Length: 365
Days

Required course materials are available at the Brazosport College bookstore, on campus or online at <http://www.brazosport.edu/bookstore>. A student of this institution is not under any obligation to purchase a textbook from the college bookstore. The same textbook is/may also be available from an independent retailer, including an online retailer.

COURSE GOALS

The following list of course goals will be addressed in the course. These goals are directly related to the performance objectives (Addendum A). (* designates a CRUCIAL goal)

1. list safety rules
2. practice safety rules
3. remove and replace transmission
4. replace flywheel
5. inspect engine block, bell housing
6. replace transmission mounts
7. replace transmission seals and gaskets
8. diagnose transmission noises
9. diagnose transmission problems
10. overhaul transmission
11. inspect and repair transmission shift linkages
12. remove and install transaxle assembly

STUDENT CONTRIBUTIONS

Each student will spend at least 5 hours per week preparing for class. Attendance is important. The student will be given the opportunity to evaluate the course and the instructor at the end of the semester.

COURSE EVALUATION

A = 90 - 100
B = 80 - 89
C = 70 - 79
D = 60 - 69
F = 59 and below

COURSE SCHEDULE

The class meets for 2 lecture hours and 6 lab hours per week.

ADDENDUM A

PERFORMANCE OBJECTIVES

1. The student will not be allowed references. The student will list safety rules. Performance will be satisfactory if rules are listed and the listing is 100% correct.
2. The student will be a member of AUMT 2425. The student will practice safety rules. Performance will be satisfactory if rules are practiced.
3. The student will be allowed references. The student will be provided tools. The student will remove and install a transmission. Performance will be satisfactory if transmission is replaced according to manufacturer's specifications in twice the flat rate time as published.
4. The student will be allowed references. The student will replace flywheel. Performance will be satisfactory if flywheel is replaced according to manufacturer's specifications in twice the flat rate time as published.
5. The student will be allowed references. The student will inspect engine block, bell housing. Performance will be satisfactory if bell housing is inspected according to manufacturer's specifications.
6. The student will be allowed references. The student will be provided tools. The student will replace transmission mounts. Performance will be satisfactory if mounts are replaced according to manufacturer's specifications in twice the flat rate time as published.
7. The student will be allowed references. The student will be provided tools. The student will replace transmission seals and gaskets. Performance will be satisfactory if seals and gaskets are replaced according to manufacturer's specifications in twice the flat rate time as published.
8. The student will be allowed references. The student will diagnose transmission noises. Performance will be satisfactory if noises are diagnosed according to manufacturer's specifications.
9. The student will be allowed references. The student will diagnose transmission problems. Performance will be satisfactory if the diagnosis is performed according to procedures given in the service manual.
10. The student will be allowed references. The student will be provided tools. The student will overhaul transmission. Performance will be satisfactory if transmission is overhauled according to manufacturer's specifications in twice the flat rate time as published.
11. The student will be allowed references. The student will be provided tools. The student will inspect and repair transmission shift linkages. Performance will be satisfactory if shift linkages are inspected and repaired according to manufacturer's specifications in twice the flat rate time as published.
12. The student will be allowed references. The student will be provided tools. The student will remove and install transaxle assembly. Performance will be satisfactory if assembly is removed and installed according to manufacturer's specifications in twice the flat rate time as published.

STUDENTS WITH DISABILITIES

Brazosport College is committed to providing equal education opportunities to every student. Brazosport College offers services for individuals with special needs and capabilities including counseling, tutoring, equipment, and software to assist students with special needs. Please contact the Special Populations Counselor, 979.230.3236, for further information.

ACADEMIC HONESTY

Brazosport College assumes that students eligible to perform on the college level are familiar with the ordinary rules governing proper conduct including academic honesty. The principle of academic honesty is that all work presented by you is yours alone. Academic dishonesty including, but not limited to, cheating, plagiarism, and collusion shall be treated appropriately. Please refer to the Brazosport College Student Guide for more information. This is available online at <http://www.brazosport.edu>. Click on the CATALOGS AND SCHEDULES link under STUDENTS.

Academic dishonesty violates both the policies of this course and the Student Code of Conduct. In this class, any occurrence of academic dishonesty will be referred to the Dean of Student Services for prompt adjudication, and will, at a minimum, result in an automatic zero for the assignment. Sanctions may be imposed beyond your grade in this course by the Dean of Student Services.