Syllabus

AUMT 2317/1017
Engine Performance Analysis I

Automotive Technology

BRAZOSPORT COLLEGE

LAKE JACKSON TEXAS

PREPARED BY: Rick Underdahl INSTRUCTOR DATE: August, 2008

RECOMMENDED BY: _____ DIVISION CHAIRMAN DATE: _____

APPROVED BY: _____ DEAN DATE: _____

BRAZOSPORT COLLEGE
500 COLLEGE DRIVE
LAKE JACKSON, TEXAS 77566

AUMT 2317/1017

Engine Performance Analysis I

COURSE DESCRIPTION

Theory, operation, diagnosis, and repair of basic engine dynamics, ignition systems, and fuel delivery systems. Use of basic engine performance diagnostic equipment. May be taught with manufacturer specific instructions. Prerequisite: AUMT 1307. (2, 4)

COURSE FOCUS

Utilize appropriate safety procedures; explain engine dynamics; diagnose and repair ignition systems and fuel delivery systems; and demonstrate the proper use of basic engine performance diagnostic equipment

TEXT AND REFERENCES

Automotive Technology Curriculum
University of Missouri-Columbia

COURSE GOALS

The following list of course goals will be addressed in the course.

1. Explain the theory and operation of an engine
2. Explain the theory and operation of engine dynamics
3. Explain the theory and operation of ignition systems
4. Explain the theory and operation of fuel delivery systems

5. Explain the basic principles of personal safety
6. Explain the procedures and precautions for safely using tools and equipment
7. Explain what should be done to maintain a safe work area
8. Demonstrate proper use of basic diagnostic equipment
9. Explain basic diagnostic procedures.
10. Interpret results of diagnostic data
11. Determine needed repairs necessary to restore engine performance
12. Perform basic mechanical diagnostics
13. Perform basic ignition diagnostics
14. Perform basic fuel system diagnostics
15. Demonstrate proper and safe procedures in servicing and maintaining automobiles

STUDENT CONTRIBUTIONS

Students are expected to attend regularly scheduled classes. They should complete all reading and outside class assignments prior to the scheduled meetings. The student will assist in demonstrations, complete assignments and tests demonstrating appropriate knowledge and skills in the specific areas designated. Students will be asked to complete an Instructor/Course Evaluation at the end of the course.

COURSE EVALUATION

A = 100 - 90
B = 98 - 80
C = 78 - 70
D = 69 - 60
F = 59 and below

COURSE SCHEDULE

The class meets for 2 lecture hours and 4 lab hours per week.