



Division:	Industrial Technology	Area:	Automotive Engineering Technology
Course Number:	AUTO 104	Course Name:	Automotive Ignition Systems
Prerequisite:	ELEC 125		
Corequisite:	None		
Hours Required:	Class: 30	Lab: 30	Credits: 3

Course Description/Purpose

This course covers the operating principles of electronic and computer controlled ignition systems. Dynamometers are used to determine ignition timing curves for various operating conditions. Diagnostic procedures and the use of testing equipment will be stressed.

Major Units

- Principles of Engine Ignition
- Electronic Ignition Systems
- Computer Controlled Ignition Systems

Educational/Course Outcomes

Student learning will be assessed by a variety of methods, including, but not limited to, quizzes and tests, journals, essays, papers, projects, laboratory/clinical exercises and examinations, presentations, simulations, portfolios, homework assignments, and instructor observations.

Cognitive Each student will be expected to *Identify/Recognize* . . .

- the operation of ignition systems
- the operation of electronic ignition
- the operation of computer ignition

Performance Each student will be expected to *Demonstrate/Practice* . . .

- test ignition systems
- replace or repair ignition components
- graph timing and advance curves

Attitudinal Each student will be expected to *Believe, Feel, Think* . . .

- shop safety
- importance of technical writing

AUTO 104-8/03:DK:cs
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