

CUYAMACA COLLEGE OFFICIAL COURSE OUTLINE

AUTOMOTIVE TECHNOLOGY 099 – INTRODUCTION TO AUTOMOTIVE TECHNOLOGY

3 hours lecture, 3 units

Catalog Description

Designed to present basic information about automotive systems. Taught with the consumer in mind, but also serves as an excellent introductory course for those interested in the automotive technology major.

Prerequisite

None

Course Objectives

Students will be able to:

- 1) Learn safety procedures as related to auto mechanics
- 2) Develop a working understanding of automotive systems
- 3) Learn various consumer maintenance concepts

Special Materials Required of Student

None

Minimum Instructional Facilities

- 1) Classroom with projection screen
- 2) Various training models
- 3) Automotive transparencies and filmstrips

Course Content

- 1) Introduction and safety
- 2) History of automobile
- 3) Four-stroke cycle engine operation
- 4) Engine construction
- 5) Engine lubrication
- 6) Engine cooling system
- 7) Diesel engine principles
- 8) Fuel system
- 9) Supercharging and fuel injection
- 10) Electricity
- 11) Starting and charging systems
- 12) Ignition system
- 13) Brakes
- 14) Chassis and suspension
- 15) Transmission and drivelines
- 16) Tires and wheels
- 17) Emission controls

Method of Instruction

Lecture and demonstration

Method of Evaluation

A grading system will be established by the instructor and implemented uniformly. Grades will be based on demonstrated proficiency in subject matter determined by multiple measurements for evaluation, one of which must be essay exams, skills demonstration or, where appropriate, the symbol system.

- 1) Participation
- 2) Exams (written)

Texts and References

- 1) Required: Schwaller. Motor Automotive Mechanics. 2nd edition. Del Mar Publishers.
- 2) Supplemental: None