

**J. Sargeant Reynolds Community College  
Course Content Summary**

**Course Prefix and Number:** AUT 112

**Credits:** 3

**Course Title:** Automotive Engines II

**Course Description (including lecture hours, lab hours, total contacts)**

Continues study of the analysis of power, cylinder condition, valves and bearings in the automotive engine to establish the present condition, repairs or adjustments. Part II of II. Prerequisite: AUT 111. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

**General Course Purpose**

Identify, care and use of hand tools, power tools, and precision measuring equipment. Discuss the basic theory, operation, and repair of internal combustion engines. Safety will be emphasized.

**Course Prerequisites/Corequisites** (*Entry-level competencies **required** for enrollment*)

AUT 111

**Course Objectives** (Each item should complete the following sentence.)

Upon completing the course, the student will be able to:

- a. Identify various engine failures and the causes
- b. Demonstrate basic tests to check the mechanical condition of the engine
- c. Demonstrate basic tests of the engine cooling system
- d. Demonstrate basic tests of the engines lubrication system
- e. Demonstrate various internal maintenance procedures related to the engine
- f. Demonstrate various in-vehicle repairs of an engine

**Major Topics to be Included**

- a. Engine failures
- b. Basic engine tests
- c. Coding system tests
- d. Lubrication system tests
- e. In-vehicle repairs
- f. Periodic maintenance

**Effective Date of Course Content Summary (Month, Date Year):** February 9, 2009