

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

Course Prefix and Number: AUT 156

Credits: 2

Course Title: Small Gasoline Engines

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

Studies small gasoline engine operating principles, construction, design, variety, and their many purposes. Gives instruction on two-cycle and four-cycle small gas engines, their construction, design, fuel system, ignition systems and lubrication systems. Demonstrates disassembly, reconditioning, overhaul, and reassembly in the lab. Lecture 1 hour. Laboratory 3 hours. Total 4 hours per week.

General Course Purpose

To provide the student with a fundamental understanding of the operational theory of small gasoline engines, enabling the student to perform basic tune-up and repair procedures. Safety will be emphasized.

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

None

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

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

- a. Identify the components of a small gasoline engine
- b. Describe the working principles of a small gasoline engine
- c. Demonstrate disassembly and re-assembly a small engine
- d. Demonstrate basic tune-up procedures
- e. Apply repair procedures as described in a repair manual

Major Topics to be Included

- a. Theory of operation
- b. Ignition system
- c. Cooling system
- d. Lubricating system
- e. Fuel system
- f. Tune-up and trouble shooting

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