

Course Objectives/Course Outline
Spokane Community College

Course Title: Engine Theory

Prefix and Course Number: Auto 108

Course Learning Outcomes:

By the end of this course, a student should be able to:

- identify and describe the purpose, types of applications, and operation methods pertaining to automobile engine theory.

Course Outline:

- I. Engine Operation
 - A. Cleaning the Engine
 - B. Engine Shop Equipment and Safety
 - C. Measuring: US and Metric
- II. Preliminary Diagnosis Before Repair
 - A. Theory of Engine Removal, Disassembly, Inspection, and In-Car Repairs
 - B. Cylinder Head Theory
 - C. Cam and Manifold Theory
 - D. Cylinder Block – Inspection and Service Theory
 - E. Crankshaft and Bearings, Piston and Rod Theory
 - F. Lubrication and Cooling Systems Theory
 - G. Engine Hardware: Fasteners, Thread Repair and Gaskets
 - H. Valve Train and Valve Timing