



South Central College

AST 1341 Engine Lab

Course Outcome Summary

Course Information

Description	This course is designed to allow students enrolled in the engine overhaul sequence of courses, time to complete the assigned projects. Prior knowledge gained by the successful completion of AST1323 and AST1332 is required for student success in this course. (1 lab credit)
Total Credits	1
Total Hours	32

Types of Instruction

Instruction Type

Credits/Hours

Lab

Pre/Corequisites

Admission into the Automotive Service program

Institutional Core Competencies

Critical and Creative Thinking - Students will be able to demonstrate purposeful thinking with the goal of using a creative process for developing and building upon ideas and/or the goal of using a critical process for the analyzing and evaluating of ideas.

Course Competencies

1. Exhibit professionalism and demonstrate proper shop safety procedures

Learning Objectives

Demonstrate professional conduct, act responsibly and accept responsibility for the successful and timely completion of assignments
Identify and follow all safety procedures

2. Complete engine assembly project

Learning Objectives

Install all remaining components that were removed during engine disassembly: Install engine covers using gaskets, seals and sealers as required.
Install engine oil and filter, prime the lubrication system
Rotate crankshaft, ensure smooth engine operation, adequate compression, proper valve train operation, and no

unusual noises

Inspect, remove and replace engine mounts.

Perform common fastener and thread repair, to include: remove broken bolt, restore internal and external threads, and repair internal threads with thread insert.

SCC Accessibility Statement

South Central College strives to make all learning experiences as accessible as possible. If you have a disability and need accommodations for access to this class, contact the Academic Support Center to request and discuss accommodations. North Mankato: Room B-132, (507) 389-7222; Faribault: Room A-116, (507) 332-7222.

Additional information and forms can be found at: www.southcentral.edu/disability

This material can be made available in alternative formats by contacting the Academic Support Center at 507-389-7222.