



Wayne County Community College District

COURSE SYLLABUS

AUT 124 Engine Repair I

CREDIT HOURS: 4.00

CONTACT HOURS: 75.00

COURSE DESCRIPTION:

Engine repair is the study of basic theory, design, service, and diagnosis of live automotive engines. Practical application of diagnosis, removal, inspection, measurement, repair, installation, and safety procedures will also be taught.

PREREQUISITES:

AUT 114 and AUT 115 and AUT 116 and AUT 117

EXPECTED COMPETENCIES:

Upon completion of this course, the student will be familiar with:

1. Identify the parts and operation of an internal combustion engine.
2. Identify and perform various forms of engine diagnosis.
3. Identify the procedures and operations needed to remove an engine.
4. Identify cylinder head and valve train functions, diagnosis, and repair procedures.
5. Identify the components and functions of the short block assembly. The student also should be able to disassemble, measure, and assemble the short block assembly.
6. Identify the components and functions of the lubricating system and inspect and repair lubricating systems and components.
7. Assemble the engine and prepare it for installation in the vehicle.
8. Diagnose and repair the cooling system.

ASSESSMENT METHODS:

Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

GRADING SCALE:

90%-100% = A
80%-89.9%= B
70%-79.9%= C
60%-69.9%= D
<60% = E