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Introduces basic and advanced internal combustion engine concepts, including theory and practical application. Covers cooling systems, lubrication, valve train, block assembly, and general engine diagnosis. Provides preparation for the Automotive Service Excellence (ASE) A1 Engine Repair Certification examination. Lecture 2 hours. Laboratory 6 hours. Total 8 hours per week. 5 credits

This course provides instruction on the testing, repair, and replacement of automotive engines. Focus will be on proper diagnosis including precision measuring, repair and replacement techniques.

Prerequisites: AUT 149 and AUT 197

Upon completing the course, the student will be able to

- Perform precision measurements on engine components
- Analyze condition of engine mechanical components
- Diagnose engine mechanical failures such as noise, consumption, and drivability
- Demonstrate proper engine removal, installation, and startup/break

- o Cylinder block measurements and analysis and analysis Re me-1.9 b (ent)-6..5 (al)2