

AUTO120G : Automotive Engines (Mechanical)

This course provides a comprehensive study of the theory, construction, design, and repair of the internal combustion engine. Topics discussed include engine classification, power and torque development, engine power-efficiency tests, engine performance parameters, and mechanical design and failure analysis. The mathematical solution of performance characteristics is demonstrated. Alternative engines and fuels are also discussed. The lab reinforces the lecture by providing engine mechanical diagnostic procedures, repair and overhaul procedures. System problem diagnosis and component failure analysis are continually stressed.

Credits 4

Theory Hours 2

Lab Hours 6

Prerequisites

[AUTO110G](#) Automotive Maintenance and Light Repair with a C or better.

Semester Offered

Spring semester