

NATURAL GAS ENGINE COMPRESSION (NGEC)

NGEC 133 Natural Gas Engine Repair Technology 5 Credits (5)

This course will cover the engine fundamentals, cylinder head and valve trains, engine block, engine servicing, lubrication and cooling Systems. Restricted to: Natural Gas Engine Compression majors.

[View Course Outcomes](#)

NGEC 175 Natural Gas Compressions Technology I 4 Credits (4)

This course delivers an introduction to the theory, application, rotary, and centrifugal natural gas compressor including operating principles, maintenance, and repair of the reciprocating, identification of the component parts and their functions, methods of balancing, and lubrication systems, and design characteristics. This course will also include calculations of gas flow, compressor sizing, rod loads, compressor analysis charts and horsepower ratings. In addition, this course will cover safety, precision measurement, use of the manuals, use of tools, and proper adjustments will be included with overhaul exercises. Restricted to: Natural Gas Engine Compression majors.

[View Course Outcomes](#)

NGEC 185 Natural Gas Compression Technology II 4 Credits (4)

This course delivers the principles of operation for natural gas engines and compressors. It includes process of startup and shutdown of natural gas compressor skid. Restricted to: Natural Gas Engine Compression majors.

Prerequisite(s): Grade of C or better in NGEC 175

[View Course Outcomes](#)

NGEC 245 Natural Gas Engine Management and Control Technology 5 Credits (5)

This course delivers operational and application studies of Engine Management System Fundamentals, Sensors, Engine Inspection, and Engine Management Fault Investigation. Restricted to: Natural Gas Engine Compression majors.

[View Course Outcomes](#)

NGEC 246 Fuel and Emissions Technology 5 Credits (5)

This course delivers operational and application studies of Engine Management System Fundamentals, Sensors, Engine Inspection, and Engine Management Fault Investigation. Restricted to: Natural Gas Engine Compression majors.

[View Course Outcomes](#)

NGEC 295 Special Topics 2 Credits (2)

Topics are to be announced in the Schedule of Classes. The topic and project are to be discussed and implemented between faculty member and student. Student gives presentation to class at the end of the term of study. All-Natural Gas Compression Technology classes in the NGEC Program must be completed or in progress before enrolling in this course. Natural Gas Engine Compression majors.

[View Course Outcomes](#)