

EGSC 430 : Engineering Thermodynamics

Topics include properties of a simple pure compressible substance, equations of state, the first law of thermodynamics, internal energy, specific heats, enthalpy, and the application of the first law to a system or a control volume. The study of the second law of thermodynamics is also discussed leading to the discovery of entropy as a property and its ramifications. Thermodynamic principles will be applied to modern engineering systems.

Semester Hours 3.0

Prerequisites

EGSC 120 and CHEM 320.