Thermodynamics

AEROENG 2405

Credit Hours (Minimum if “Range” selected):
3.00

Max Credit Hours:
3.00

Representative Textbooks and Other Course Materials:

<table>
<thead>
<tr>
<th>Title</th>
<th>Author</th>
<th>Year</th>
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<tbody>
<tr>
<td>Thermodynamics, an Engineering Approach</td>
<td>Cengel, Y.A.</td>
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<td></td>
<td>and Boles, M.A.</td>
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Course Description:
Aerospace engineering thermodynamics: Introduction to the concepts of energy and entropy, the First and Second Law analysis of systems and control volumes, and the analysis of power and refrigeration cycles.

Prerequisites and Co-requisites:
Prereq: 2200 (200), and AeroEng-BS student (No AAE pre-majors can enroll in this class).

Designation:
Required

Course Goals / Objectives:
Study of energy and energy transfer mechanisms. By the end of this course, students should have a thorough understanding of the basic tools needed to analyze engineering systems where energy transfers or transformations take place.