ME 351
ENGINEERING THERMODYNAMICS
FALL 2016
SYLLABUS

INSTRUCTORS: Mr. Greg Berkeley
EMAIL: gberkeley@mail.sdsu.edu
LECTURE: MW 3:30 – 4:45 PM, Room SSE-1401
OFFICE: E-301
OFFICE HOURS: WF 10:00 – 11:00 AM

COURSE DESCRIPTION:

COURSE OBJECTIVES:
- Demonstrate the principles of thermodynamics applied to common engineering thermal systems such as power cycles, refrigeration, propulsion, etc.
- Maintain an overall theme of engineering design practices and making sound professional decisions based on course theories and models.

PREREQUISITES:
- Completion of ME 350.
- Completion of or concurrent registration in AE 340.

TEXTBOOKS:

Other editions will suffice

GRADING PROCEDURE:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Weight</th>
<th>Grade Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>10 %</td>
<td>A 90 – 100</td>
</tr>
<tr>
<td>Exam I</td>
<td>30 %</td>
<td>B+ 84 – 86.9</td>
</tr>
<tr>
<td>Exam II</td>
<td>30 %</td>
<td>C+ 74 – 76.9</td>
</tr>
<tr>
<td>Exam III</td>
<td>30 %</td>
<td>D+ 62 – 64.9</td>
</tr>
<tr>
<td>Extra Credit Exam*</td>
<td>+5%</td>
<td>F ≤ 54.9</td>
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</tbody>
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*Tentative
**ACREDITATION (ABET) PROGRAM OUTCOMES:**

(a) an ability to apply knowledge of mathematics, science, and engineering.
(b) an ability to design and conduct experiments, as well as to analyze and interpret data.
(c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
(e) an ability to identify, formulate, and solve engineering problems.
(f) an understanding of professional and ethical responsibility.
(h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
(i) a recognition of the need for, and an ability to engage in life-long learning.
(j) a knowledge of contemporary issues.
(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

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**SYLLABUS STATEMENT for Students with Disabilities For Students with Disabilities**

If you are a student with a disability and believe you will need accommodations for this class, it is your responsibility to contact Student Disability Services at (619) 594-6473. To avoid any delay in the receipt of your accommodations, you should contact Student Disability Services as soon as possible. Please note that accommodations are not retroactive, and that I cannot provide accommodations based upon disability until I have received an accommodation letter from Student Disability Services. Your cooperation is appreciated.