Introduction to Aerospace Engineering I

AEROENG 2200

Course Description:
An introduction to fundamental concepts leading to aircraft design, with an emphasis on aerodynamics and aircraft performance.

Course Goals / Objectives:
Introduce students to the nomenclature and environment of flight
Educate students in the fundamentals of fluid flow and the concepts of lift and drag
Train students in the methodology for prediction of aerodynamic characteristics of aircraft
Introduce aerodynamic concepts of vertical flight and rotorcraft performance
Develop in students an understanding of how the equations of aircraft motion can be specialized to steady and accelerated flight
Stimulate understanding of the basic principles with simple laboratory experiences

Grades Breakdown:

<table>
<thead>
<tr>
<th>Aspect</th>
<th>Percent</th>
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<tbody>
<tr>
<td>Midterm Exams</td>
<td>40%</td>
</tr>
<tr>
<td>Homework Assignments</td>
<td>13%</td>
</tr>
<tr>
<td>Lab Reports</td>
<td>12%</td>
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<tr>
<td>Final Exam</td>
<td>30%</td>
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<tr>
<td>Class Participation</td>
<td>5%</td>
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Designation:
Elective
Required

Instruction Modes:
In Person (75-100% campus; 0-24% online)

Representative Textbooks and Other Course Materials:

<table>
<thead>
<tr>
<th>Title</th>
<th>Author</th>
<th>Year</th>
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