Flight Vehicle Dynamics

AEROENG 3520

Course Description:
Introduction to mathematical modeling of dynamics (equations of motion) for rigid bodies with specific application towards aircraft and spacecraft.

Course Goals / Objectives:
Educate students about the fundamental principles in developing equations of motions for physical systems
Enable students to use basic tools of rigid body motion
Train students to develop mathematical models specifically for aircraft motion and spacecraft motion

Grades Breakdown:

<table>
<thead>
<tr>
<th>Aspect</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>15%</td>
</tr>
<tr>
<td>Midterm exams (2)</td>
<td>50%</td>
</tr>
<tr>
<td>Final exam</td>
<td>35%</td>
</tr>
</tbody>
</table>

Designation:
Required

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

Representative Textbooks and Other Course Materials:
Title | Author | Year
--- | --- | ---
No Textbooks and Other Course MaterialsEntered.