### Aero 201: Introduction to Aerospace Engineering

<table>
<thead>
<tr>
<th>COURSE #: AE 201</th>
<th>COURSE TITLE: INTRODUCTION TO AEROSPACE ENGINEERING</th>
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<tr>
<td>TERMS OFFERED: Fall/Winter</td>
<td>PREREQUISITES: Eng 100 and 101, Phys 140/141, Math 116</td>
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<td>INSTRUCTOR(S): Atkins</td>
<td>SCIENCE/DESIGN CREDITS: 3/0 (required course)</td>
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**Catalog Description:**

**Course Objectives:**
1. To provide students with an introduction to the aerospace field. (Leads to 1, 2, 5)
2. To teach students about the fundamentals of vehicle flight in the atmosphere. (Leads to 1, 2, 3, 4, 5)
3. To teach students about the fundamentals of vehicle flight in space. (Leads to 1, 2, 5)
4. To provide students with an understanding of performance trades in aircraft flight. (Leads to 1, 2, 4, 5)
5. To provide students with engineering background suitable for subsequent course work in aerospace engineering (leads to 5)

**COURSE OUTCOMES**

**On completion of Aero 201, students can:**
1. Understand range of subject matter covered in aerospace engineering. (Assessed by: 1,2,3)
2. Understand important physical features of aircraft and space flight systems. (Assessed by: 1,2,3)
3. Be able to apply basic principles of mechanics to steady and unsteady flight. (Assessed by: 1,2,3)
4. Develop equations that characterize aircraft performance in steady flight; solve those equations for flight conditions. (Assessed by: 1,2,3)
5. Integrate and apply system level understanding of complex aerospace systems

**Assessment Tools**
1. Hour-long exams.
2. Individual homework.
3. Final exam

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