Design of Atmospheric Flight Vehicles II

AEROENG 4516

Description / Conditions

Transcript Abbreviation:
Det Des Aircraft

Course Description:
Continuation of 4515. Preliminary and detailed design of aerospace vehicle components: design of a vehicle for atmospheric flight.

Course Levels:
Undegraduate (1000-5000 level)

Designation:
Required

Course Detail

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

Max Credit Hours:
3.00

Check if Repeatable:
Off

Maximum Repeatable Credits:
3.00

Allow Multiple Enrollments in Term:
No

Course Length:
14 weeks (autumn or spring)
12 weeks (summer only)

Off Campus:
Never
Campus Location:
Columbus

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

Prerequisites and Co-requisites:
Prereq: 4515 (515 and 516), and enrollment as AeroEng-BS student (No pre-majors can enroll in this class).

Electronically Enforced:
No

Exclusions:
Not open to students with credit for 516.01 or 517.01.

Course Goals and Learning Objectives

Course Goals / Objectives:
Provide students with preliminary and detailed aircraft design experience
Foster multidisciplinary thought processes and collaborations
Train students in effective teamwork
Refine students' technical communication skills through written reports and presentations

Check if concurrence sought:
No

Contact Hours

Contact Hours:

<table>
<thead>
<tr>
<th>Topic</th>
<th>LEC</th>
<th>REC out-of-class</th>
<th>REC in-class</th>
<th>Weekly LAB in-class</th>
<th>Weekly LAB out-of-class</th>
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<td>Detailed stability, control, and</td>
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<td>handling</td>
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Design of Atmospheric Flight Vehicles II - 2/4
### Grading and Texts

**Grading Plan:**
- **Letter Grade**

**Course Components:**
- Lecture
- Lab

**Grade Roster Component:**
- Lecture

**Credit by Exam (EM):**
- No

**Grades Breakdown:**

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<th>Aspect</th>
<th>Percent</th>
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<tbody>
<tr>
<td>Midterm presentation</td>
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<td>Final Presentation</td>
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<tr>
<td>Final Report</td>
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<td>Quizzes</td>
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**Representative Textbooks and Other Course Materials:**

<table>
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<th>Title</th>
<th>Author</th>
<th>Year</th>
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### ABET Student Learning Outcomes

### Embedded Literacies (UG courses only)

Embedded Literacies Info:

### Attachments / Additional Notes or Comments

ABET Syllabus: