Experimental Projects I

AEROENG 4510

Description / Conditions

Transcript Abbreviation:
Exp Projects I

Course Description:
Conceive, plan and design an experiment with a group of students. Emphasis on planning and experiment preparation.

Course Levels:
Undegraduate (1000-5000 level)

Designation:
Required

Course Detail

Credit Hours (Minimum if “Range”selected):
2.00

Max Credit Hours:
2.00

Check if Repeatable:
Off

Maximum Repeatable Credits:
2.00

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:
Hybrid Class (25-74% campus; 25-74% online)

Prerequisites and Co-requisites:
Prereq: 3543 (543) and 3570 (530 and 570), and Sr standing, and enrollment as AeroEng-BS student (No pre-majors can enroll in this class).

Electronically Enforced:
No

Course Goals and Learning Objectives

Course Goals / Objectives:
Develop as a team the strategy and tactics for the design of an experiment and for data analysis procedures to achieve experimental objectives, including detailed description of the necessary technical tasks
Formulate an experimental program and success criteria to obtain information for a particular problem
Implement as a team a detailed design for an experiment and for data analysis procedures necessary to achieve the objectives defined above
Effectively communicate orally and in writing the results of the project design process, and subsequently the key aspects of the overall project (from concept to end goal)

Check if concurrence sought:
No

Contact Hours

Contact Hours:

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<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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**Grading and Texts**

Grading Plan:
Letter Grade

Course Components:
Recitation
Lecture

Grade Roster Component:
Lecture

Credit by Exam (EM):
No

Grades Breakdown:

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<td>Adviser evaluation</td>
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Representative Textbooks and Other Course Materials:

No Textbooks and Other Course Materials Entered.

**ABET Student Learning Outcomes**

**Embedded Literacies (UG courses only)**

Embedded Literacies Info:
ABET Syllabus:
AEROENG_4510_ABET.pdf