



# Experimental Projects II

## AEROENG 4511

**Credit Hours:**

3.00

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**Course Levels:**

Undergraduate (1000-5000 level)

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**Course Components:**

Lecture

Lab

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**Course Description:**

Execute and report on experiment formulated in Projects I. Emphasis on execution and reporting.

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**Prerequisites and Co-requisites:**

Prereq: 4510, and enrollment as AeroEng-BS student (No pre-majors can enroll in this class).

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**Course Goals / Objectives:**

- Execute, as a team, an experiment which will successfully assess a defined objective(s)
  - 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)
  - GE Reflection-Engag Citizens & Intercultr Comp: Students consider public health, safety, and welfare as well as global, cultural, social, environmental, and economic factors in applying engineering design to produce solutions meeting specified needs.
  - GE Reflection - Personal and Professional Development: Students individually assess and pursue personal professional growth in concert with project requirements and personal career goals.
  - GE Reflection - Cultivate Engineering Mindset: Students develop an engineering mindset that demonstrates constant curiosity, makes connections between disparate bodies of information, and seeks opportunities to create value.
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**Course Topics:**

- Experimental Measurement: Methods and Methodology
  - Data Analysis
  - Data Reduction
  - Creating Effective Graphics
  - Graphics that Present Data
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**Designation:**

Required