Experimental Projects II

AEROENG 4511

Credit Hours:
3.00

Course Levels:
Undergraduate (1000-5000 level)

Course Components:
Lecture
Lab

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

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

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 & Intercultur 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.
Course Topics:
- Experimental Measurement: Methods and Methodology
- Data Analysis
- Data Reduction
- Creating Effective Graphics
- Graphics that Present Data

Designation:
Required