Flight Vehicle Dynamics

AEROENG 3520

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

Max Credit Hours:
3.00

Representative Textbooks and Other Course Materials:

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No Textbooks and Other Course Materials Entered.

Course Description:
Introduction to mathematical modeling of dynamics (equations of motion) for rigid bodies with specific application towards aircraft and spacecraft.

Prerequisites and Co-requisites:
Prereq: 2200, and enrollment as AeroEng-BS student (No pre-majors can enroll in this course). Prereq or concur: MechEng 2030.

Designation:
Required

Course Goals / Objectives:
Educate students about the fundamental principles in developing equations of motions for physical systems
Enable students to use basic tools of rigid body motion
Train students to develop mathematical models specifically for aircraft motion and spacecraft motion