Introduction to Aerospace Engineering I

AEROENG 2200

Credit Hours (Minimum if “Range” selected):
4.00

Max Credit Hours:
4.00

Representative Textbooks and Other Course Materials:

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Course Description:
An introduction to fundamental concepts leading to aircraft design, with an emphasis on aerodynamics and aircraft performance.

Prerequisites and Co-requisites:
Prereq: Physics 1250 or 1260 (131); and Math 1152 (152), 1161 (161), 1172 (154), or 1181H, or a grade of C- or above in Math 1544. Prereq or concur: Math 2173 (254), 2153 (153), or 2162 (263).

Designation:
Elective
Required

Course Goals / Objectives:
Introduce students to the nomenclature and environment of flight
Educate students in the fundamentals of fluid flow and the concepts of lift and drag
Train students in the methodology for prediction of aerodynamic characteristics of aircraft
Introduce aerodynamic concepts of vertical flight and rotorcraft performance
Develop in students an understanding of how the equations of aircraft motion can be specialized to steady and accelerated flight
Stimulate understanding of the basic principles with simple laboratory experiences