

MEEG 416: Aerostructures

Teach mechanics of materials methods of stress and deformation analysis applicable to the design of aircraft and space structures. Cover fundamental topics such as static analysis of aerospace structures, analysis of thin-walled beams with open and closed section, unsymmetrical bending of wing sections, torsion of skin-stringer and multi-cell sections, flexural shear, shear center and failure theories of materials. Develop an ability to analyze structures that arise in aerospace applications.

Credits: 3

Prerequisites/Permissions:

MEEG 204, MATH 159, MEEG 207

Program:

Mechanical Engineering

COURSE DESCRIPTIONS