

COURSE DETAIL

AEROSPACE STRUCTURES

Country

Spain

Host Institution

Carlos III University of Madrid

Program(s)

Carlos III University of Madrid

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering

UCEAP Course Number

141

UCEAP Course Suffix**UCEAP Official Title**

AEROSPACE STRUCTURES

UCEAP Transcript Title

AEROSPACE STRUCTURE

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

Topics in this aerospace structures course include: structural description of the aircraft; structures in the aeronautical sector; bending and shear of open and closed, thin-walled beams; torsion of beams; torsion on multiple-cell, thin-walled beams; bending of thin plates; shells; theory of laminate; composite beams and plates; sandwich structures.

Pre-requisites: Physics I; Mechanics Applied to Aerospace Engineering; Introduction to Structural Analysis

Language(s) of Instruction

English

Host Institution Course Number

15341

Host Institution Course Title

ESTRUCTURAS AEROESPACIALES

Host Institution Course Details

<https://aplicaciones.uc3m.es/cpa/generaFicha?est=251&anio=2025&plan=421&asig=15...>

Host Institution Campus

LEGANÉS

Host Institution Faculty

Escuela Politécnica Superior

Host Institution Degree

Grado en Ingeniería Aeroespacial

Host Institution Department

Departamento de Mecánica de Medios Continuos y Teoría de Estructuras

Course Last Reviewed

2025-2026

[Print](#)