

COURSE DETAIL

DEFYING GRAVITY: THE SCIENCE OF FLIGHT

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)

Engineering

UCEAP Course Number

135

UCEAP Course Suffix**UCEAP Official Title**

DEFYING GRAVITY: THE SCIENCE OF FLIGHT

UCEAP Transcript Title

SCIENCE OF FLIGHT

UCEAP Quarter Units

2.50

UCEAP Semester Units

1.70

Course Description

This course delves into the science of aerodynamics, its history, from the earliest developments to the most modern advances, and how airplanes fly. It discusses concepts related to lift as applied to airplanes, birds, and other vehicles and the major contributions of the aerospace sector and future developments. This course examines the four forces of flight, fluids, how wings work (design and characteristics), and aerodynamics in high-performance sports. Students participate in a hands-on activity called the "Wind Tunnel Experiment" to see aerodynamics in action. Finally, this course looks at the aeronautical industry in the news and evaluates the future of flight.

Language(s) of Instruction

English

Host Institution Course Number

20749

Host Institution Course Title

DESAFIANDO LA GRAVEDAD: CIENCIA DEL VUELO

Host Institution Course Details

<https://aplicaciones.uc3m.es/cpa/generaFicha?est=352&anio=2025&plan=569&asig=20...>

Host Institution Campus

GETAFE

Host Institution Faculty

Facultad de Humanidades, Comunicación y Documentación

Host Institution Degree

Host Institution Department

Minicurso de Humanidades

Course Last Reviewed

2025-2026

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