

COURSE DETAIL

AERODYNAMICS

Country

Singapore

Host Institution

National University of Singapore

Program(s)

National University of Singapore

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering

UCEAP Course Number

131

UCEAP Course Suffix**UCEAP Official Title**

AERODYNAMICS

UCEAP Transcript Title

AERODYNAMICS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This upper division course introduces students to the basic concepts, theories, and applications in aerodynamics. Major topics are: Characteristics and parameters for airfoil and wing aerodynamics; Incompressible flow past thin airfoils and finite-span wings; Aerodynamic design considerations; Compressible subsonic, transonic and supersonic flows past airfoils and supersonic flow past thin wings. The course is for students who are interested in aerodynamics, especially those who intend to work in the aviation industry or those who intend to conduct R & D work in the aerodynamics area. The course requires students to take prerequisites.

Language(s) of Instruction

English

Host Institution Course Number

ME4231

Host Institution Course Title

AERODYNAMICS

Host Institution Course Details

<https://nusmods.com/courses/ME4231/aerodynamics>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mechanical Engineering

Course Last Reviewed

2024-2025

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