

## 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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