

COURSE DETAIL

FLUID DYNAMICS

Country

France

Host Institution

University of Bordeaux

Program(s)

University of Bordeaux

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering

UCEAP Course Number

110

UCEAP Course Suffix**UCEAP Official Title**

FLUID DYNAMICS

UCEAP Transcript Title

FLUID DYNAMICS

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course introduces the fundamental equations of perfect and Newtonian fluid mechanics within the framework of continuum mechanics. It covers fluid kinematics and deformation, followed by the dynamics of ideal and viscous fluids through the Euler and Navier-Stokes equations. The course also provides an introduction to dimensional analysis and concludes with the Saint-Venant equations and related analogies, highlighting applications to real fluid flows.

Language(s) of Instruction

French

Host Institution Course Number

EMM6-MFLU1

Host Institution Course Title

MECANIQUE DES MILIEUX CONTINUS ET DEFORMABLES - FLUIDES II

Host Institution Course Details

<https://formation.bordeaux-inp.fr/fr/offre-de-formation-2025-2026/titre-d-ingen...>

Host Institution Campus

INP

Host Institution Faculty

Engineering

Host Institution Degree

Licence

Host Institution Department

Mechanical Engineering

Course Last Reviewed

2025-2026

[Print](#)