

# COURSE DETAIL

## FLUIDS DESIGN

**Country**

United Kingdom - England

**Host Institution**

Imperial College London

**Program(s)**

English Universities, Imperial College London

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Civil Engineering

**UCEAP Course Number**

107

**UCEAP Course Suffix****UCEAP Official Title**

FLUIDS DESIGN

**UCEAP Transcript Title**

FLUIDS DESIGN

**UCEAP Quarter Units**

2.50

**UCEAP Semester Units**

1.70

## Course Description

Students produce an outline design of an offshore floating structure in a two-day design project. Specific attention is placed on the calculation of the fluid loads arising due to buoyancy effects, surface water waves, steady currents, the combination of waves, and currents. Students are exposed to a complex design problem requiring the practical application of the modeling procedures introduced in the autumn term of the core Fluid Mechanics module (CI2-240). The emphasis of the work lies in both undertaking practical design calculations and in understanding the limitations of the solutions achieved

## Language(s) of Instruction

English

## Host Institution Course Number

CI2-214

## Host Institution Course Title

FLUIDS DESIGN

## Host Institution Campus

Imperial College London

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Civil Engineering

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