

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 Course Details

Host Institution Campus

Imperial College London

Host Institution Faculty

Host Institution Degree

Host Institution Department

Civil Engineering

Course Last Reviewed

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