

COURSE DETAIL

HEAT TRANSFER

Country

United Kingdom - England

Host Institution

Imperial College London

Program(s)

Imperial College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Chemical Engineering

UCEAP Course Number

145

UCEAP Course Suffix**UCEAP Official Title**

HEAT TRANSFER

UCEAP Transcript Title

HEAT TRANSFER

UCEAP Quarter Units

3.00

UCEAP Semester Units

2.00

Course Description

The aim of the project is to integrate knowledge gained from CE2 Reaction Engineering I and CE1 Chemical Engineering with CE2 Process Dynamics and Control and apply this to the design of a reactor for chemical conversion with an appropriate control structure. Further aims are to become familiar with the control systems simulations package Simulink and to gain proficiency in the use of MATLAB for real reaction rate equations and numerical integration. Simulink will enable study of dynamic effects on control of the reactor designed in this project.

Language(s) of Instruction

English

Host Institution Course Number

CENG95003

Host Institution Course Title

HEAT TRANSFER

Host Institution Campus

Imperial College

Host Institution Faculty**Host Institution Degree****Host Institution Department**

Chemical Engineering

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