Process Design Project

CEIC4001 | 12 Units of Credit

Overview

Please Note: Pre-requisites: at least 144 UOC taken in Industrial Chemistry or Chemical Engineering programs. No exclusions.

This course covers the engineering of all or part of a process plant. It requires the application of material covered in the entire undergraduate Chemical Engineering Degree/Industrial Chemistry program and its integration to address the given design brief including technical and non-technical objectives and considerations. While the students are required to develop the skills required for professional accreditation, they are also encouraged to develop skills in areas of specialisation or interest related to the broad design issues for the selected project. The project includes: conceptual design of a process; development and evaluation of the process flowsheet; design of facilities for processing, transport and storage of materials within the plant; plant sizing; equipment selection and cost estimation including utility requirements; plant location and layout; evaluation of economic viability of the plant; control scheme development; hazard and risk assessment; preparation of an environmental impact statement; preparation of a piping and instrumentation diagram. All aspects of the design are completed with regard to statutory requirements. The students will have the opportunity to develop skills in team work, interpersonal relationships, decision making and technical capabilities.

Per the requirements of the IChemE, at least 30 of the assessment weight for this course is individually based.
**Faculty**
Faculty of Engineering

**School**
School of Chemical Engineering

**Study Level**
Undergraduate

**Offering Terms**
Term 1

**Campus**
Kensington

**Indicative contact hours**
3

**Timetable**
Visit timetable website for details
Conditions for Enrolment

Prerequisite: CEIC3004 and CEIC3005 and CEIC3006
Course Outline

To access course outline, please visit:

CEIC4001 Course Outline
## Fees

<table>
<thead>
<tr>
<th>Category</th>
<th>Fee</th>
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<tr>
<td>Commonwealth Supported Students</td>
<td>$2340</td>
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<tr>
<td>Domestic Students</td>
<td>$11580</td>
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<tr>
<td>International Students</td>
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### DISCLAIMER

Please note that the University reserves the right to vary student fees in line with relevant legislation. This fee information is provided as a guide and more specific information about fees, including fee policy, can be found on the [fee website](#).

For advice about fees for courses with a fee displayed as "Not Applicable", including some Work Experience and UNSW Canberra at ADFA courses, please contact the relevant Faculty.

Where a Commonwealth Supported Students fee is displayed, it does not guarantee such places are available.
Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)

Pre-2019 Handbook Editions