Overview

The specialisation in Chemical Process Engineering is defined by a core of disciplinary knowledge and advanced disciplinary knowledge. It provides a solid postgraduate coursework program for the professional chemical engineer wishing to upgrade their skills or extend their knowledge.
Faculty
Faculty of Engineering

School
School of Chemical Engineering

Study Level
Postgraduate

Minimum Units of Credit
48

Specialisation Type
Specialisation
Available in Program(s)

Program(s) in which this specialisation is available

Graduate Diploma in Engineering Science - GradDipEngSc

5341 Engineering Science

Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 48
Typical Duration: 1 Years
Specialisation Structure

Students must complete 48 UOC.

Disciplinary Knowledge Core Course

Students must take 6 UOC of the following courses.

CEIC8104  |  6 UOC
Topics in Polymer Technology

Disciplinary Knowledge Courses

Students must take at least 24 UOC of the following courses.

CEIC8204  |  6 UOC
Topics in Business Management in Chemical Engineering

CEIC8205  |  6 UOC
Fuel and Energy Engineering

CEIC8330  |  6 UOC
Process Engineering in the Petroleum Industry

CEIC8341  |  6 UOC
Membrane Processes

CHEN6701  |  6 UOC
Advanced Reaction Engineering

CHEN6703  |  6 UOC
Advanced Particle Systems Engineering

CHEN6706  |  6 UOC
Advanced Transport Phenomena

Electives
Students may choose electives from the following list or other courses for which they are qualified to enrol, with the approval of the stream authority. Students may only choose electives for which they are appropriately prepared by way of prior learning. Up to 12 UOC of foundation knowledge courses may be approved as electives by the Program Authority where appropriate.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>UOC</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVEN9701</td>
<td>6</td>
<td>Engineering Economics and Financial Management</td>
</tr>
<tr>
<td>CVEN9731</td>
<td>6</td>
<td>Project Management Framework</td>
</tr>
<tr>
<td>CVEN9888</td>
<td>6</td>
<td>Environmental Management</td>
</tr>
<tr>
<td>CVEN9892</td>
<td>6</td>
<td>Sustainability Assessment and Risk Analysis</td>
</tr>
<tr>
<td>GSOE9017</td>
<td>6</td>
<td>Managing Energy Efficiency</td>
</tr>
<tr>
<td>GSOE9210</td>
<td>6</td>
<td>Engineering Decision Structures</td>
</tr>
<tr>
<td>GSOE9340</td>
<td>6</td>
<td>Life Cycle Engineering</td>
</tr>
<tr>
<td>GSOE9510</td>
<td>6</td>
<td>Ethics and Leadership in Engineering</td>
</tr>
<tr>
<td>GSOE9712</td>
<td>6</td>
<td>Engineering Statistics and Experiment Design</td>
</tr>
<tr>
<td>GSOE9810</td>
<td>6</td>
<td>Process and Product Quality in Engineering</td>
</tr>
<tr>
<td>GSOE9820</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>
### Engineering Project Management

**GSOE9830** | 6 UOC  
**Economic Decision Analysis in Engineering**

### Reliability and Maintenance Engineering

**MANF4430** | 6 UOC  
**Reliability and Maintenance Engineering**

### Sustainable Energy in Developing Countries

**SOLA9016** | 6 UOC  
**Sustainable Energy in Developing Countries**

#### Enrolment Disclaimer

Unless advised otherwise by your program authority, you should follow the rules for the handbook for the year you commenced your program. You are also responsible for ensuring you enrol in courses according to your program requirements. myUNSW enrolment checks that you have met enrolment requirements such as pre-requisites for individual courses but not that a course will count towards your program requirements.
Additional Information

Entry Requirements

A student must hold a Bachelor degree in Chemical engineering with Honours II/2 (or equivalent) or an equivalent qualification from a recognised university or tertiary institution, with an average mark of at least 65, in order to be admitted to the stream.
Those without such a qualification are required to argue their prior learning is equivalent to this qualification. For example, a 3- or 4-year Bachelor of Engineering or Science combined with relevant discipline experience (such as chemical or food process operations) may be recognised.
Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)

Pre-2019 Handbook Editions
© UNSW Sydney (CRICOS Provider No.: 00098G), 2019. The information contained in this Handbook is indicative only. While every effort is made to keep this information up-to-date, the University reserves the right to discontinue or vary arrangements, programs and courses at any time without notice and at its discretion. While the University will try to avoid or minimise any inconvenience, changes may also be made to programs, courses and staff after enrolment. The University may also set limits on the number of students in a course.

Authorised by Deputy Vice-Chancellor (Academic)
CRICOS Provider Code 00098G
ABN: 57 195 873 179