Advanced Instrumental Analysis
CHEM6041 | 6 Units of Credit

Overview

This course builds on students' existing background in analytical chemistry to develop both theory and practice relating to the latest analytical techniques used in industry and research. The course covers in general, method validation and quality assurance in the analytical chemistry laboratory; and for selected major techniques, method development, theory, operation, instrumentation and applications. Analytical methods covered include separation techniques (chromatography), mass spectrometry, hyphenated chromatography-mass spectrometry techniques, electrochemistry, NMR (including 2D NMR), and elemental analysis, which are amongst the most widely used analytical instrumental techniques across a broad range of disciplines and in many different industries. The course was designed in close consultation with industry leaders (who will also give guest lectures) to provide valuable perspectives from outside academia and provide focus on the most relevant occupational skills. Students will obtain hands-on experience using state-of-the-art, instruments in the Mark Wainwright Analytical Centre. Thus, the course strongly emphasises employability in both industry, government and academy.

NOTE: Postgraduate coursework students wishing to enrol in this course should contact the The School of Chemistry www.chem.unsw.edu.au for advice to arrange enrolment.
<table>
<thead>
<tr>
<th><strong>Faculty</strong></th>
<th>Faculty of Science</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>School</strong></td>
<td>School of Chemistry</td>
</tr>
<tr>
<td><strong>Study Level</strong></td>
<td>Postgraduate</td>
</tr>
<tr>
<td><strong>Offering Terms</strong></td>
<td>Term 2</td>
</tr>
<tr>
<td><strong>Campus</strong></td>
<td>Kensington</td>
</tr>
<tr>
<td><strong>Indicative contact hours</strong></td>
<td>8</td>
</tr>
<tr>
<td><strong>Timetable</strong></td>
<td>Visit timetable website for details</td>
</tr>
</tbody>
</table>
Conditions for Enrolment

Prerequisite: CHEM2041
Course Outline

To access course outline, please visit:

CHEM6041 Course Outline
Fees

Commonwealth Supported Students  $1191
Domestic Students  $3900
International Students  $5580

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
© 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