# Chemistry

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| **Year and Campus:** | 2014 |
| **Coordinator:** | Associate Professor Craig Hutton |
| **Contact:** | **Melbourne Graduate School of Science**<br>Faculty of Science<br>The University of Melbourne<br>Victoria 3010<br>Tel: + 61 3 8344 6128<br>Fax: +61 3 8344 3351<br>Web: **http://graduate.science.unimelb.edu.au/ (http://graduate.science.unimelb.edu.au/)** |
| **Overview:** | The Graduate Diploma allows students who have completed an undergraduate degree to re-focus or expand their body of knowledge by completing the requirement of one of the undergraduate majors (or equivalent) in the Bachelor of Science not already completed. The Graduate Diploma provides a pathway to the Master of Science Streams. |
| **Learning Outcomes:** | Students who complete the graduate diploma should:<br># Demonstrate an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories and methodologies that are applied with intellectual honesty and a respect for ethical values;<br># Apply critical and analytical skills and methods to the identification and resolution of problems<br># Act as informed and critically discriminating participants within the community of scholars, as citizens and in the work force;<br># Communicate effectively;<br># Commit to continuous learning;<br># Be proficient in the use of appropriate modern technologies, such as the computer and other information technology systems, for the acquisition, processing and interpretation of data.<br>-<br>**Core participation requirements:** Laboratory experiments<br>This discipline requires students to actively, independently and safely participate in all practical classes, utilising a range of observational, communication, motor, intellectual, and behavioural and social skills. Visual acuity, muscle coordination and balance are essential for participation. Assessment is reliant on careful observation and visual interpretation of results. |
| **Structure & Available Subjects:** | Completion of 100 points:<br># 50 points of study at Level 3;<br># 50 points of study at Level 2 or above. |
| **Subject Options:** | ***Subject prerequisites:*** *CHEM10004 Chemistry 2 or CHEM10006 Chemistry for Biomedicine, or equivalents and a further 12.5 points of level 1 science subjects*<br>**Level 2**<br>Students should select 50 points of level 2 options to meet the pre-requisites for their level 3 choices.<br>-<br>Students must take: |

| Subject | Study Period Commencement: | Credit Points: |
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| CHEM20019 Practical Chemistry 2 | Semester 2 | 12.50 |
| CHEM20018 Chemistry: Reactions and Synthesis | Semester 1 | 12.50 |

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| CHEM20020 Chemistry: Structure and Properties | Semester 2 | 12.50 |

Plus one elective selected from:

| Subject | Study Period Commencement: | Credit Points: |
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| CHEM20011 Environmental Chemistry | Semester 1 | 12.50 |
| CHEM30013 Chemical Research Project | Summer Term, Semester 2 | 12.50 |

## Level 3

Both of:

| Subject | Study Period Commencement: | Credit Points: |
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| CHEM30016 Reactivity and Mechanism | Semester 1 | 12.50 |
| CHEM30015 Advanced Practical Chemistry | Semester 1 | 12.50 |

Plus two electives selected from:

| Subject | Study Period Commencement: | Credit Points: |
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| CHEM30017 Specialised Topics in Chemistry A | Semester 1 | 12.50 |
| CHEM30014 Specialised Topics in Chemistry B | Semester 2 | 12.50 |
| CHEM30012 Analytical & Environmental Chemistry | Semester 2 | 12.50 |

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| **Links to further information:** | http://graduate.science.unimelb.edu.au |
| **Related Course(s):** | Graduate Diploma in Science |