

Chemistry

Year and Campus:	2016								
Coordinator:	Associate Professor Craig Hutton								
Contact:	Email: chutton@unimelb.edu.au (mailto:chutton@unimelb.edu.au)								
Overview:	<p>In addition to satisfying the Faculty of Science entry requirements, students interested in entering the Postgraduate Diploma in Chemistry program should typically have completed a Bachelor of Science degree which includes some third year chemistry subjects. However, all applications will be considered on a case-by-case basis by the coordinator.</p> <p>Hurdle assessment requirements: In addition to the Postgraduate Diploma in Chemistry requirements, students enrolled in this program must: attend all Safety and Induction program lectures and successfully complete the Safety Examination. Students who fail the Safety Examination will have to complete an additional study program and be reassessed. A pass in the Safety Examination (>65%) is required before students can begin their laboratory work. Students must submit a preliminary literature survey and research plan (10 pages of mixed text, diagrams and formulas) due at the end of the first semester of enrolment (pass/fail).</p> <p>Components of assessment: The course comprises a research project component and an advanced coursework component. Their relative weightings are as follows: Chemistry Research Project component = 62.5 percent Chemistry Advanced Coursework component = 37.5 percent</p>								
Learning Outcomes:	<p>The Postgraduate Diploma in Chemistry program is designed to:</p> <ul style="list-style-type: none"> # increase the student's knowledge and understanding of chemical science; # develop the process and practice of chemical research; # encourage the development of individual investigative skills, critical thought and the ability to evaluate information and analyse experimental data; # promote the acquisition of experimental or theoretical skills in areas currently relevant to one of the research groups in the School of Chemistry; # improve oral and written communication skills; and # ensure that students receive essential training skills in laboratory safety procedures. 								
Structure & Available Subjects:	<p>Advanced Coursework: Students will enrol in the following three subjects (each worth 12.5 points):</p> <ul style="list-style-type: none"> # CHEM90008 Advanced Spectroscopy # CHEM90009 Chemical Synthesis & Characterisation # CHEM90010 Advanced Chemical Applications 1 <p>Research Project: The research project involves the completion of:</p> <ul style="list-style-type: none"> # a preliminary literature survey and research plan (10 pages of mixed text, diagrams and formulas) due at the end of semester of enrolment (pass/fail); # a major thesis, page limit of 30 pages due at the end of the second semester of study (90% made up from thesis evaluation (35%), oral examination (viva) on thesis (35%); and supervisor's assessment of research performance (20%) based on attendance, application, initiative, and demonstrated skills); # a project-related oral presentation (15 minutes presentation, 5 minutes discussion) to be scheduled during the second semester of enrolment (10%); # Successful completion of a seminar series providing advanced theoretical and/or practical training (pass/fail). 								
Subject Options:	<p>Advanced Coursework</p> <p>Students will enrol in the following three subjects (each worth 12.5 points):</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>CHEM90008 Advanced Spectroscopy</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table>			Subject	Study Period Commencement:	Credit Points:	CHEM90008 Advanced Spectroscopy	Semester 1	12.50
Subject	Study Period Commencement:	Credit Points:							
CHEM90008 Advanced Spectroscopy	Semester 1	12.50							

	CHEM90009 Chemical Synthesis & Characterisation 1	Semester 1	12.50
	CHEM90010 Advanced Chemical Applications 1	July	12.50
	Research Project		
	Students will enrol in CHEM40008 Chemistry Research Project 25 points in semester 1 and CHEM40009 Chemistry Research Project 37.5 points in semester 2.		
	Subject	Study Period Commencement:	Credit Points:
	CHEM40008 Chemistry Research Project	Semester 1, Semester 2	25
	CHEM40009 Chemistry Research Project	Semester 1, Semester 2	37.50
Links to further information:	http://graduate.science.unimelb.edu.au		
Notes:	This program has a start-year and a mid-year intake.		
Related Course(s):	Postgraduate Diploma in Science		