Chemistry

Year and Campus:	2016
Coordinator:	Dr Alessandro Soncini
Contact:	Ms Andrea Oliver Email: a.oliver@unimelb.edu.au
Overview:	In addition to satisfying the Faculty of Science entry requirements, students interested in entering the Graduate Diploma in Science (Advanced) 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. **Hurdle assessment requirements**: In addition to the Graduate Diploma in Science (Advanced) 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). **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
Learning Outcomes:	The Chemistry program for the Graduate Diploma in Science (Advanced) is designed to: # 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:	**Advanced Coursework:** Students will enrol in the following three subjects (each worth 12.5 points): # CHEM90008 Advanced Spectroscopy # CHEM90009 Chemical Synthesis & Characterisation # CHEM90010 Advanced Chemical Applications 1 **Research Project:** The research project involves the completion of: # 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).
Majors/Minors/ Specialisations	***Subject prerequisites:*** For stream specific requirements please **click here (http://science.unimelb.edu.au/available-stream-requirements%20)** .
Subject Options:	**Advanced Coursework** Students will enrol in the following three subjects (each worth 12.5 points):

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):	Graduate Diploma in Science (Advanced)