

## CHEM40008 Chemistry Research Project

<b>Credit Points:</b>	25
<b>Level:</b>	4 (Undergraduate)
<b>Dates &amp; Locations:</b>	2011, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus. Semester 2, Parkville - Taught on campus.
<b>Time Commitment:</b>	Contact Hours: This subject is an individual research project and weekly contact hours will vary depending on the nature of the project. Total Time Commitment: Students should discuss total time commitment with their supervisor but as a guide, a student would be expected to be engaged in their research for an average of twenty-five hours per week over two semesters.
<b>Prerequisites:</b>	A major study (one half of a full-time year of study at third year level) in Chemistry
<b>Corequisites:</b>	610681 – for S1 project enrolment or equivalent Masters project subject 610682 – for S1 project enrolment or equivalent Masters project subject 610683 – for S1 project enrolment or equivalent Masters project subject
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	None
<b>Core Participation Requirements:</b>	For the purposes of considering requests for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements for this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: <a href="http://www.services.unimelb.edu.au/disability/">http://www.services.unimelb.edu.au/disability/</a>
<b>Coordinator:</b>	Assoc Prof Craig Hutton
<b>Contact:</b>	Email: <a href="mailto:chutton@unimelb.edu.au">chutton@unimelb.edu.au</a> ( <a href="mailto:chutton@unimelb.edu.au">mailto:chutton@unimelb.edu.au</a> )
<b>Subject Overview:</b>	The research project is involves undertaking experimental and/or theoretical research in an area currently relevant to one of the research groups in the School of Chemistry. The subject will enable students to develop the process and practice of chemical research; increase the student's knowledge and understanding of chemical science; encourage the development of individual investigative skills, critical thought and the ability to evaluate information and to analyse experimental data; and ensure that students receive essential training in laboratory safety procedures.  Students will be enrolled in a combination of the research project subjects indicated below to ensure they have completed a total of 62.5 points for the research project by the end of their honours program.  CHEM40008 Chemistry Research Project – 25 points CHEM40009 Chemistry Research Project – 37.5 points
<b>Objectives:</b>	The objectives of this subject are to develop the process and practice of chemical research; increase the student's knowledge and understanding of chemical science; encourage the development of individual investigative skills, critical thought and the ability to evaluate information and to analyse experimental data; and ensure that students receive essential training in laboratory safety procedures
<b>Assessment:</b>	(1) Attendance at a safety & induction program with >65% result in a 45 minute safety examination held during the first week (pass/fail);(2) A preliminary literature survey and research plan (1500 words, up to 5 pages), due at the end of the first semester (hurdle);(3) A major thesis, page limit of 30 pages (10,000 words), due at the end of second semester (55%);(4) An oral exam (viva) on the content of the thesis (35%);(5) A project-related oral presentation (up

	to 30 minutes), given at the end of second semester (10%);(6) Attendance at a seminar series providing advanced theoretical and/or practical training (hurdle).
<b>Prescribed Texts:</b>	None
<b>Recommended Texts:</b>	None
<b>Breadth Options:</b>	This subject is not available as a breadth subject.
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>
<b>Generic Skills:</b>	Generic skills obtained by completing this subject include; advanced problem solving and critical thinking skills, an ability to evaluate the research and professional literature, a capacity to apply concepts developed in one area to a different context, the ability to analyse and rationalise experimental observations, develop effective time management and improve written and oral communication skills.
<b>Related Course(s):</b>	Bachelor of Science (Degree with Honours)