

## CHEM90013 Chemistry Masters Research Project

<b>Credit Points:</b>	12.50
<b>Level:</b>	9 (Graduate/Postgraduate)
<b>Dates &amp; Locations:</b>	2010, Parkville This subject commences in the following study period/s: Summer Term, Parkville - Taught on campus. Semester 1, Parkville - Taught on campus. Semester 2, Parkville - Taught on campus.
<b>Time Commitment:</b>	Contact Hours: . Total Time Commitment: This subject is an individual research project and weekly contact hours will vary depending on the nature of the project. Students should discuss this with their supervisor but as a guide, a student enrolled in a 50 point research project subject would be expected to be engaged in their research for an average of forty hours per week or 480 hours for the semester. Students enrolled in a 37.5, 25 or 12.5 point research subject would be expected to be engaged in their research on a pro-rata basis.
<b>Prerequisites:</b>	None
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	None
<b>Core Participation Requirements:</b>	It is University policy to take all reasonable steps to minimise the impact of disability upon academic study and reasonable steps will be made to enhance a student's participation in the University's programs. This subject requires all students to actively and safely participate in laboratory activities. Students who feel their disability may impact upon their participation are encouraged to discuss this with the subject coordinator and the Disability Liaison Unit.
<b>Coordinator:</b>	Assoc Prof Craig Hutton
<b>Contact:</b>	Dr Craig Hutton Email: <a href="mailto:chutton@unimelb.edu.au">chutton@unimelb.edu.au</a>
<b>Subject Overview:</b>	<p>The research project 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.</p> <p>Students enrolled in the Master of Science (Chemistry program) are required to complete a 125 point Research Project. Students may enrol in a combination of Research Project subjects as indicated below (each of which is available in the summer semester, semester one and semester two) over their two years of full-time study or over their four years of part-time study, to ensure they have completed a total of 125 points by the end of their course.</p> <ul style="list-style-type: none"> <li># 610-671 Chemistry Masters Research Project - 12.5 points</li> <li># 610-672 Chemistry Masters Research Project - 25.0 points</li> <li># 610-673 Chemistry Masters Research Project - 37.5 points</li> <li># 610-675 Chemistry Masters Research Project - 50.0 points</li> </ul>
<b>Objectives:</b>	<p>The objectives of this subject are to:</p> <ul style="list-style-type: none"> <li>• develop the process and practice of chemical research;</li> <li>• increase the student's knowledge and understanding of chemical science;</li> </ul>

	<ul style="list-style-type: none"> <li>• encourage the development of individual investigative skills, critical thought and the ability to evaluate information and to analyse experimental data; and</li> <li>• ensure that students receive essential training in laboratory safety procedures.</li> </ul>
<b>Assessment:</b>	The assessment requirements below are applicable to the entire 125 point Research Project: (1) A preliminary literature survey and research plan (1500 words, up to 5 pages), due at the end of the first semester of study (pass/fail); (2) A major thesis, page limit of 60 pages (20,000 words) due at the end of the fourth semester of study (90% made up from thesis evaluation (35%), oral examination (viva) on thesis (35%); supervisor's assessment of research performance ((20% based on attendance, application, initiative, and demonstrated skills]); (3) A project related oral-presentation (up to 30 minutes) given at the end of the fourth semester of study (10%); (4) Successful completion of a seminar series providing advanced theoretical and/or practical training (pass/fail).
<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>	<p>At the completion of this subject, students should gain skills in:</p> <ul style="list-style-type: none"> <li>• advanced problem solving and critical thinking;</li> <li>• evaluation of research and professional literature;</li> <li>• applying concepts developed in one area to a different context;</li> <li>• analysing and rationalising experimental observations;</li> <li>• effective time management;</li> <li>• scientific written and oral communication.</li> </ul>
<b>Related Course(s):</b>	Master of Science (Chemistry)