

R05 RC Master of Science - Chemistry

Year and Campus:	2009
Coordinator:	Dr Craig Hutton
Overview:	<p>Students undertaking the Master of Science (Chemistry program) must complete a total of 200 points over the two year full-time (or four year part-time) program, comprising:</p> <p>Core discipline subject (12.5 points) <i>Students must take:</i></p> <ul style="list-style-type: none"> • 610-681 Advanced Spectroscopy <p>Elective discipline subjects (all subjects are 12.5 points, total points: 37.5–50) <i>Students must take:</i></p> <ul style="list-style-type: none"> • Two to four of the core Chemistry subjects: 610-682 Chemistry 4A; 610-683 Chemistry 4B; CHEM00011 Chemistry 5A (semester 1, 2010); CHEM00012 Chemistry 5B (semester 2, 2010) and • Up to 25 points from the Professional Entry MSc core discipline subjects (with the approval of the course coordinator), and/or up to 12.5 points of approved 300-level subjects. <p><i>Note: Students need not complete Chemistry 4A or 5A prior to enrolling in Chemistry 4B and 5B.</i></p> <p>Professional tools (all subjects are 12.5 points, total points: 12.5–25) <i>Students must take one or two Professional Tools subjects from the following list:</i></p> <p>Business Tools</p> <ul style="list-style-type: none"> • 600-614 Business Tools: Money, People and Projects, • Business Tools: The Market Environment (available from semester 1, 2010), <p>Science Tools</p> <ul style="list-style-type: none"> • Critical Analysis in Science (available from semester 2, 2010); • eScience (available from semester 2, 2010); • 600-617 Systems Modelling and Simulation; • 600-618 Ethics and Responsibility in Science; • 600-615 Thinking and Reasoning with Data. <p>Communication Tools</p> <ul style="list-style-type: none"> • 600-616 Science in Context; • 600-619 Science and Communication. <p>Research Project (125 credit points)</p> <p>The assessment requirements below are applicable to the entire 125 point Research Project:</p> <ol style="list-style-type: none"> (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). <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"> # 610-671 Research Project - 12.5 points # 610-672 Research Project - 25.0 points # 610-673 Research Project - 37.5 points

	# 610-675 Research Project - 50.0 points																																												
Objectives:	<p>The objectives of this course are to:</p> <ul style="list-style-type: none"> # 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. 																																												
Subject Options:	<table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>610-681 Advanced Spectroscopy</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>610-682 Chemistry 4A</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>610-683 Chemistry 4B</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>610-671 Chemistry Masters Research Project</td> <td>Summer, Semester 1, Semester 2</td> <td>12.50</td> </tr> <tr> <td>610-672 Chemistry Masters Research Project</td> <td>Summer, Semester 1, Semester 2</td> <td>25.00</td> </tr> <tr> <td>610-673 Chemistry Masters Research Project</td> <td>Summer, Semester 1, Semester 2</td> <td>37.50</td> </tr> <tr> <td>610-675 Chemistry Masters Research Project</td> <td>Summer, Semester 1, Semester 2</td> <td>50.00</td> </tr> <tr> <td>600-614 Business Tools:Money, People & Projects</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>600-617 Systems Modelling and Simulation</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>600-618 Ethics and Responsibility in Science</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>600-615 Thinking and Reasoning with Data</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>600-616 Science in Context</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>600-619 Science and Communication</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table>			Subject	Study Period Commencement:	Credit Points:	610-681 Advanced Spectroscopy	Semester 1	12.50	610-682 Chemistry 4A	Semester 1	12.50	610-683 Chemistry 4B	Semester 2	12.50	610-671 Chemistry Masters Research Project	Summer, Semester 1, Semester 2	12.50	610-672 Chemistry Masters Research Project	Summer, Semester 1, Semester 2	25.00	610-673 Chemistry Masters Research Project	Summer, Semester 1, Semester 2	37.50	610-675 Chemistry Masters Research Project	Summer, Semester 1, Semester 2	50.00	600-614 Business Tools:Money, People & Projects	Semester 2	12.50	600-617 Systems Modelling and Simulation	Semester 1	12.50	600-618 Ethics and Responsibility in Science	Semester 2	12.50	600-615 Thinking and Reasoning with Data	Semester 1	12.50	600-616 Science in Context	Semester 2	12.50	600-619 Science and Communication	Semester 1	12.50
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Links to further information:	http://graduate.science.unimelb.edu.au/programs/msc/chemistry																																												
Related Course(s):	Master of Science																																												