

GC-SC Graduate Certificate in Science

Year and Campus:	2015 - Parkville
CRICOS Code:	085109F
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Level:	Graduate/Postgraduate
Duration & Credit Points:	62.50 credit points taken over 12 months full time. This course is available as full or part time.
Coordinator:	Professor Aleks Owczarek DirectorMelbourne Graduate School of Science
Contact:	<p>Melbourne Graduate School of Science Faculty of Science The University of Melbourne Victoria 3010</p> <p>Tel: + 61 3 8344 6128 Fax: +61 3 8344 3351</p> <p>Web: http://graduate.science.unimelb.edu.au/ (http://graduate.science.unimelb.edu.au/)</p>
Course Overview:	<p>The Graduate Certificate allows students who have completed an undergraduate degree to re-focus or expand their body of knowledge by completing the requirement of one of the undergraduate majors (or equivalent) in the Bachelor of Science not already completed. The following areas of study are available:</p> <ul style="list-style-type: none"> # Botany # Chemistry # Medicinal Chemistry # Computer Science # Genetics # Integrated Geography # Human Geography # Physical Geography # Geology # Pure Mathematics # Applied Mathematics # Discrete Mathematics / Operations Research # Statistics / Stochastic Processes # Physics # Zoology <p>Students will be required to have completed level 2 prerequisites.</p>
Learning Outcomes:	<p>Students who complete the Graduate Certificate should:</p> <ul style="list-style-type: none"> # Demonstrate an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories and methodologies that are applied with intellectual honesty and a respect for ethical values; # Apply critical and analytical skills and methods to the identification and resolution of problems; # Act as informed and critically discriminating participants within the community of scholars, as citizens and in the work force; # Communicate effectively; # Commit to continuous learning; # Be proficient in the use of appropriate modern technologies, such as the computer and other information technology systems, for the acquisition, processing and interpretation of data.

Course Structure & Available Subjects:	<p>Completion of 62.5 points of study:</p> <ul style="list-style-type: none"> # 50 points of study at Level 3 # 12.5 points of study at Level 9 																
Majors/Minors/ Specialisations	<table border="1"> <thead> <tr> <th data-bbox="384 302 1481 365">Major/Minor/Specialisation</th> </tr> </thead> <tbody> <tr><td data-bbox="384 365 1481 421">Botany</td></tr> <tr><td data-bbox="384 421 1481 477">Chemistry</td></tr> <tr><td data-bbox="384 477 1481 533">Medicinal Chemistry</td></tr> <tr><td data-bbox="384 533 1481 589">Computer Science</td></tr> <tr><td data-bbox="384 589 1481 645">Genetics</td></tr> <tr><td data-bbox="384 645 1481 701">Integrated Geography</td></tr> <tr><td data-bbox="384 701 1481 757">Human Geography</td></tr> <tr><td data-bbox="384 757 1481 813">Physical Geography</td></tr> <tr><td data-bbox="384 813 1481 869">Geology</td></tr> <tr><td data-bbox="384 869 1481 925">Pure Mathematics</td></tr> <tr><td data-bbox="384 925 1481 981">Applied Mathematics</td></tr> <tr><td data-bbox="384 981 1481 1037">Discrete Mathematics / Operations Research</td></tr> <tr><td data-bbox="384 1037 1481 1093">Statistics / Stochastic Processes</td></tr> <tr><td data-bbox="384 1093 1481 1149">Physics</td></tr> <tr><td data-bbox="384 1149 1481 1227">Zoology</td></tr> </tbody> </table>	Major/Minor/Specialisation	Botany	Chemistry	Medicinal Chemistry	Computer Science	Genetics	Integrated Geography	Human Geography	Physical Geography	Geology	Pure Mathematics	Applied Mathematics	Discrete Mathematics / Operations Research	Statistics / Stochastic Processes	Physics	Zoology
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Entry Requirements:	<p>In order to be considered for entry, applicants must have completed:</p> <ul style="list-style-type: none"> • an undergraduate degree, or equivalent; and • at least 37.5 points of specific prerequisite subjects at level 2 or above for the stream into which entry is sought. For stream specific requirements please click here (http://science.unimelb.edu.au/available-stream-requirements%20) . <p>-</p> <p>Meeting these requirements does not guarantee selection.</p> <p>In ranking applications, the Selection Committee will consider prior academic performance.</p> <p>The Selection Committee may seek further information to clarify any aspect of an application in accordance with the Admission and Selection into Course Policy (http://policy.unimelb.edu.au/MPF1035) .</p> <p>Applicants are required to satisfy the university's English language requirements for postgraduate courses (http://www.policy.unimelb.edu.au/schedules/MPF1035-ScheduleA.pdf) . For those applicants seeking to meet these requirements by one of the standard tests approved by the Academic Board, performance band 6.5 is required.</p>																
Core Participation Requirements:	<p>The Graduate Certificate in Science welcomes applications from students with disabilities. It is University and degree policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the degree. The Graduate Certificate in Science requires all students to enrol in subjects where they will require: 1. the ability to comprehend complex science, technology and/or engineering systems related information; 2. the ability to clearly and independently communicate a knowledge and application of science, technology and engineering systems principles and practices during assessment tasks; and in some areas of study; 3. the ability to actively and safely contribute in clinical, laboratory, and fieldwork/excursion activities. Students</p>																

	<p>must possess behavioural and social attributes that enable them to participate in a complex learning environment. Students are required to take responsibility for their own participation and learning. They also contribute to the learning of other students in collaborative learning environments, demonstrating interpersonal skills and an understanding of the needs of other students. Assessment may include the outcomes of tasks completed in collaboration with other students. There are additional inherent academic requirements for some disciplines and subjects, and these requirements are listed within the description of the requirements for each of these disciplines and subjects. Students who feel their disability will impact on meeting this requirement are encouraged to discuss this matter with the relevant Subject Coordinator and the Disability Liaison Unit: http://www.services.unimelb.edu.au/disability/ - Discipline# specific Core Participation Requirements</p> <p>Chemistry Core participation requirements: Laboratory experiments This discipline requires students to actively, independently and safely participate in all practical classes, utilising a range of observational, communication, motor, intellectual, and behavioural and social skills. Visual acuity, muscle coordination and balance are essential for participation. Assessment is reliant on careful observation and visual interpretation of results.</p> <p>Botany Core participation requirements: Fieldwork, practicals and laboratory experiments This discipline requires all students to actively, independently and safely participate in all practical classes, utilising a range of observational, communication, motor, intellectual, and behavioural and social skills. Visual acuity, muscle coordination and balance are essential for participation. Details of the participation requirements can be found at http://www.vet.unimelb.edu.au/docs/CoreParticipationReqsBSc.pdf The sites essential to this fieldwork are not wheel chair accessible and may require students to traverse broken ground. Students are also required to undertake experiments including specimen and microscope work with assessment reliant on careful observation and visual interpretation of results. Practical may also involve handling and working with animals.</p> <p>Geology Core participation requirements: Fieldwork The sites essential to this fieldwork are not wheelchair accessible and require students to traverse broken ground. Visual observation and interpretation of the sites is also an essential component, as is specimen and microscope work.</p> <p>Zoology Core participation requirements: Fieldwork, practicals and laboratory experiments This discipline requires all students to actively, independently and safely participate in all practical classes, utilising a range of observational, communication, motor, intellectual, and behavioural and social skills. Visual acuity, muscle coordination and balance are essential for participation. Details of the participation requirements can be found at http://www.vet.unimelb.edu.au/docs/CoreParticipationReqsBSc.pdf The sites essential to this fieldwork are not wheel chair accessible and may require students to traverse broken ground. Students are also required to undertake experiments including specimen and microscope work with assessment reliant on careful observation and visual interpretation of results. Practical may also involve handling and working with animals.</p>
Further Study:	<p>Students will be allowed to apply for entry into the associated Master of Science program after completing the undergraduate component (50 points) of the Graduate Certificate. Students who then enter the Master of Science will be able to have one level 9 subject cross-credited from their Master of Science back to their Graduate Certificate in Science in order to complete the Certificate</p>
Links to further information:	<p>http://graduate.science.unimelb.edu.au/certificates-diplomas</p>
Notes:	<p>The following streams can only be completed part-time</p> <ul style="list-style-type: none"> Applied Mathematics Botany Chemistry Computer Science Discrete Mathematics/Operations Research Genetics Geology Medicinal Chemistry (Mid-year Intake) Physics (Mid-year Intake) Pure Mathematics Statistics/Stochastic Processes Integrated Geography (Mid-year Intake) Human Geography Physical Geography <p>The following streams can be completed either full-time over 6 months or part-time</p> <ul style="list-style-type: none"> Integrated Geography (Start Year Intake) Medicinal Chemistry (Start Year Intake) Zoology

Physics (Start Year Intake)