

290AA Postgraduate Diploma in Science

Year and Campus:	2016
CRICOS Code:	023188D
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Level:	Graduate/Postgraduate
Duration & Credit Points:	100 credit points taken over 12 months
Coordinator:	Melbourne Graduate School of Science
Contact:	<p>Coordinator Professor Aleks Owczarek</p> <p>Contact</p> <p>Currently enrolled students:</p> <ul style="list-style-type: none"> # General information: https://ask.unimelb.edu.au (https://ask.unimelb.edu.au) # Email: enquiries-STEM@unimelb.edu.au (mailto:enquiries-STEM@unimelb.edu.au) <p>Future students:</p> <ul style="list-style-type: none"> # Further information: http://graduate.science.unimelb.edu.au/ (http://graduate.science.unimelb.edu.au/) # Email: http://graduate.science.unimelb.edu.au/contact-us (http://graduate.science.unimelb.edu.au/contact-us)
Course Overview:	<p>This course is no longer accepting new enrolments. Future students should refer to the Advanced Graduate Diploma in Science (.//view/current/gda-sci) . (.//view/current/gda-sci)</p> <p>The Faculty of Science offers the Postgraduate Diploma in Science program through a number of departments.</p> <p>When a program includes a research project students who successfully complete the Postgraduate Diploma in Science with an H2A (75%) average are eligible to apply for Master of Philosophy or Doctor of Philosophy candidature. Where a coursework only option is chosen students are not eligible to apply for Master of Philosophy or Doctor of Philosophy candidature.</p> <p>Areas of Study: Botany, Chemistry, Computer Science, Earth Sciences, Genetics, Mathematics and Statistics, Physics and Zoology.</p>
Learning Outcomes:	<p>Postgraduate Diploma programs are designed to:</p> <ul style="list-style-type: none"> # enable the acquisition of research skills (for example, laboratory techniques and data collection and analysis); # engage students in research, under supervision; # increase students' knowledge and understanding of the relevant discipline and awareness of current developments and issues relating to the discipline; # develop independent and critical thinking; and # improve oral and written communication skills.
Course Structure & Available Subjects:	<p>The Postgraduate Diploma in Science course requires the completion of 100 points (100 points = one year of full-time study).</p> <p>Coursework and Research</p> <p>The 100 points comprises two components:</p> <ul style="list-style-type: none"> # a coursework component (sometimes requiring the completion of up to 25 points of later-year, normally third-year, undergraduate subjects); and # a minor thesis research project component (normally 10 000 - 12 000 words).

	<p>The weight of each component varies between departments.</p> <p>To be eligible for the award of the Postgraduate Diploma in Science, students must successfully complete both the research and the coursework components of the course.</p> <p>Coursework</p> <p>Students have the option to complete the Postgraduate Diploma in Science by coursework alone (100 point coursework option) in areas of study: Botany, Mathematics and Statistics, Physics.</p> <p>Students also have the option to use the Postgraduate Diploma in Science by coursework in Botany, Mathematics and Statistics or Physics as an early exit point from the relevant Master of Science stream– i.e. Master of Science in Botany, Mathematics and Statistics, or Physics – where appropriate and subject to the approval of the stream Coordinator.</p>									
<p>Majors/Minors/ Specialisations</p>	<p>Areas of Study</p> <p>Students may select from the following areas of study:</p> <table border="1" data-bbox="387 678 1482 1196"> <thead> <tr> <th data-bbox="387 678 1482 739">Major/Minor/Specialisation</th> </tr> </thead> <tbody> <tr> <td data-bbox="387 739 1482 795">Botany</td> </tr> <tr> <td data-bbox="387 795 1482 851">Chemistry</td> </tr> <tr> <td data-bbox="387 851 1482 907">Computer Science</td> </tr> <tr> <td data-bbox="387 907 1482 963">Earth Sciences</td> </tr> <tr> <td data-bbox="387 963 1482 1019">Genetics</td> </tr> <tr> <td data-bbox="387 1019 1482 1075">Mathematics and Statistics</td> </tr> <tr> <td data-bbox="387 1075 1482 1131">Physics</td> </tr> <tr> <td data-bbox="387 1131 1482 1196">Zoology</td> </tr> </tbody> </table>	Major/Minor/Specialisation	Botany	Chemistry	Computer Science	Earth Sciences	Genetics	Mathematics and Statistics	Physics	Zoology
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Physics										
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<p>Entry Requirements:</p>	<p>In order to be considered for entry, applicants must have completed:</p> <ul style="list-style-type: none"> # an undergraduate degree with a major in an appropriate discipline, or equivalent; and # appropriate prerequisite studies for the stream into which entry is sought <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> <p>-</p> <p>Stream Specific Appropriate Disciplines and Subject Prerequisites</p> <p><i>Botany</i></p> <p>Appropriate disciplines – any science discipline</p> <p><i>Chemistry</i></p> <p>Appropriate discipline – Chemistry or equivalent</p> <p><i>Computer Science</i></p> <p>Appropriate discipline – Computer Science or equivalent, with a weighted average mark of at least H3 (65%) in the best 50 points in appropriate discipline studies at third year</p>									

	<p>Subject prerequisites – at least 25 points of university-level Mathematics or Statistics subjects (in addition, some knowledge of formal logic and discrete mathematics, and second-year University-level Mathematics/Statistics are recommended)</p> <p><i>Earth Science</i></p> <p>Appropriate disciplines – Agricultural Science, Atmospheric and Ocean Sciences, Biochemistry, Botany, Chemistry, Engineering, Environmental Science, Food Science, Genetics, Geography, Geology, Mathematics, Microbiology, Physics, Plant Science or Zoology</p> <p><i>Genetics</i></p> <p>Appropriate disciplines – biological sciences, with a weighted average mark of at least H3 (65%) in the best 50 points in appropriate discipline studies at third year</p> <p><i>Mathematics and Statistics</i></p> <p>Appropriate discipline – Mathematics and Statistics or equivalent, with a weighted average mark of at least H3 (65%) in the best 25 points in appropriate discipline studies at level 2 or above</p> <p>Subject prerequisites - at least two level 1 or above and three level 2 or above Mathematics or Statistics subjects. If students have completed accelerated subjects then one fewer level 2 or above subject can be deemed appropriate.</p> <p><i>Physics</i></p> <p>Appropriate disciplines – Physics, Mathematical Physics, Chemical Physics, Mathematics, Statistics, or Engineering; or equivalent</p> <p>Subject prerequisites – at least 50 points of level 2 or above Physics and both MAST20009 Vector Calculus and MAST20026 Real Analysis or equivalents</p> <p><i>Zoology</i></p> <p>Appropriate disciplines - Zoology, Biomedicine, Ecology and Evolutionary Biology, Environmental Science, Genetics, Physiology, Veterinary Science</p>
<p>Core Participation Requirements:</p>	<p>The Postgraduate Diploma 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 Postgraduate Diploma in Science requires all students to enrol in subjects where they will require: (1) the ability to comprehend complex science and technology related information;(2) the ability to clearly and independently communicate a knowledge and application of science, and technology principles and practices during assessment tasks;(3) the ability to actively and safely contribute in clinical, laboratory, and fieldwork/excursion activities. Students 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 may be additional inherent academic requirements for some subjects, and these requirements are listed within the description of the requirements for each of these 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/</p>
<p>Further Study:</p>	<p>Students who successfully complete the coursework and research Postgraduate Diploma in Science courses with an H2A (75%) average are eligible to apply for M.Phil - Science and PhD-Science candidature.</p> <p>Students who successfully complete the coursework (100%) Postgraduate Diploma in Science courses are not eligible to apply for M.Phil - Science and PhD-Science candidature.</p>
<p>Links to further information:</p>	<p>http://graduate.science.unimelb.edu.au</p>