

## DR-PHILSCI Doctor of Philosophy - Science

<b>Year and Campus:</b>	2016 - Parkville
<b>CRICOS Code:</b>	056958E
<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>Level:</b>	Research Higher Degree
<b>Duration &amp; Credit Points:</b>	Students are expected to complete this research in 4.00 years full time, or equivalent part time. Credit Points: 0
<b>Coordinator:</b>	Mr James Perry <a href="mailto:rhd-science@unimelb.edu.au">rhd-science@unimelb.edu.au</a>
<b>Contact:</b>	<p><b>Currently enrolled students:</b></p> <ul style="list-style-type: none"> <li># General information: <a href="https://ask.unimelb.edu.au">https://ask.unimelb.edu.au</a> (<a href="https://ask.unimelb.edu.au">https://ask.unimelb.edu.au</a>)</li> <li># Email: <a href="mailto:rhd-science@unimelb.edu.au">rhd-science@unimelb.edu.au</a> (<a href="mailto:rhd-science@unimelb.edu.au">mailto:rhd-science@unimelb.edu.au</a>)</li> </ul> <p>Future students:</p> <ul style="list-style-type: none"> <li># Further information: <a href="http://graduate.science.unimelb.edu.au/doctor-of-philosophy">graduate.science.unimelb.edu.au/doctor-of-philosophy</a> (<a href="http://graduate.science.unimelb.edu.au/doctor-of-philosophy">http://graduate.science.unimelb.edu.au/doctor-of-philosophy</a>)</li> <li># Email: <a href="mailto:rhd-science@unimelb.edu.au">rhd-science@unimelb.edu.au</a> (<a href="mailto:rhd-science@unimelb.edu.au">mailto:rhd-science@unimelb.edu.au</a>)</li> </ul>
<b>Course Overview:</b>	<p>The degree of Doctor of Philosophy signifies that the holder has undertaken a substantial piece of original research, which has been conducted and reported by the holder under proper academic supervision and in a research environment for a prescribed period.</p> <p>The PhD thesis demonstrates authority in the candidate's field and shows evidence of command of knowledge in relevant fields. It shows that the candidate has a thorough grasp of the appropriate methodological techniques and an awareness of their limitations. The thesis makes a distinct contribution to knowledge. Its contribution to knowledge rests on originality of approach and/or interpretation of the findings and, in some cases, the discovery of new facts. The thesis demonstrates an ability to communicate research findings effectively in the professional arena and in an international context. It is a careful, rigorous and sustained piece of work demonstrating that the PhD Graduated is admitted to the community of scholars in the discipline.</p> <p>In scope, the PhD thesis differs from a research Masters thesis chiefly by its deeper and more comprehensive treatment of the chosen subject. It is written succinctly, in English, unless approval has been given for the thesis to be written in a language other than English. The normal length of a PhD thesis is 80,000 words.</p> <p>The Faculty of Science offers PhD programs in the following schools:</p> <ul style="list-style-type: none"> <li># BioSciences</li> <li># Chemistry</li> <li># Earth Sciences</li> <li># Ecosystem and Forest Sciences</li> <li># Mathematics and Statistics</li> <li># Physics</li> <li># Geography</li> </ul> <p>For information in regards to the research groups within the Faculty of Science schools as listed above, please refer to: <a href="http://science.unimelb.edu.au/research/research-themes">http://science.unimelb.edu.au/research/research-themes</a> (<a href="http://science.unimelb.edu.au/research/research-themes">http://science.unimelb.edu.au/research/research-themes</a>)</p>
<b>Learning Outcomes:</b>	See 'Graduate Attributes'
<b>Course Structure &amp; Available Subjects:</b>	A candidate for the PhD degree must be an enrolled student in this University and is required to carry out research at the University for a specified period under the direct supervision of one or

	<p>more members of the academic staff. All candidates for the PhD-Science will be examined on the basis of their thesis.</p>
<p><b>Entry Requirements:</b></p>	<p>1. In order to be considered for entry, applicants must have completed:</p> <ul style="list-style-type: none"> <li># a four-year Bachelor degree in a relevant discipline which includes a substantial research component equivalent to at least 25% of one year of full-time study and have achieved a minimum weighted average of 75% in the final year subjects or (University of Melbourne) equivalent; or</li> <li># a Masters degree in a relevant discipline which includes a substantial research component equivalent to at least 25% of one year of full-time study and achieved a minimum weighted average of 75% or (University of Melbourne) equivalent; or</li> <li># a qualification and professional experience considered to be equivalent;</li> </ul> <p>and</p> <ul style="list-style-type: none"> <li># provide referee reports (except for applicants who have graduated from the University of Melbourne within the last 5 years); and</li> <li># have obtained the endorsement of a prospective supervisor</li> </ul> <p>Meeting these requirements does not guarantee selection.</p> <p>2. In selecting applicants, the selection committee will consider applicants':</p> <ul style="list-style-type: none"> <li># prior academic performance and, if relevant, professional qualifications;</li> <li># understanding of the research question to be explored;</li> <li># performance at an interview;</li> <li># motivation and capacity to complete the course in a timely manner;</li> <li># relevant prior research and/or professional experience; and</li> <li># the referee reports.</li> </ul> <p>3. The selection committee may seek further information to clarify any aspect of an application in accordance with the Selection and Admission into Graduate Research Courses Policy.</p> <p>4. Applicants are required to satisfy the university's English language requirements. For those applicants seeking to meet these requirements by one of the standard tests approved by the Academic Board, the following performance bands are required: An overall band score of 6.5 in the IELTS Academic Test.</p> <p>For information on meeting the English language requirements, visit the webpage here:  <a href="http://futurestudents.unimelb.edu.au/admissions/entry-requirements/language-requirements">http://futurestudents.unimelb.edu.au/admissions/entry-requirements/language-requirements</a> (<a href="http://futurestudents.unimelb.edu.au/admissions/entry-requirements/language-requirements">http://futurestudents.unimelb.edu.au/admissions/entry-requirements/language-requirements</a>)</p> <p>For information on the application process, visit the webpage here:  <a href="http://graduate.science.unimelb.edu.au/doctor-of-philosophy">http://graduate.science.unimelb.edu.au/doctor-of-philosophy</a> (<a href="http://graduate.science.unimelb.edu.au/doctor-of-philosophy">http://graduate.science.unimelb.edu.au/doctor-of-philosophy</a>)</p>
<p><b>Core Participation Requirements:</b></p>	<p>All PhD candidates are required to complete the equivalent of at least 12 months full-time (24 months part-time) advanced study and research in the University unless studying at an outside institution approved by the Research Higher Degrees Committee (RHDC). The RHDC will not approve entirely distance supervision or entirely on-line supervision for graduate researchers. Throughout their candidature candidates are expected to attend the University in order to benefit from planning, conducting and writing up their research within a University community and environment. The residency requirement is deemed especially important during the period of probationary candidature. During probationary candidature the student is expected to interact on a regular basis with the supervisor, the department (including staff and other research students) and the University, so as: to build the skills and knowledge necessary to carry out the proposed research program to acquire an understanding of the standards and requirements for a PhD awarded by the University to make use of support programs and facilities provided by the Melbourne School of Graduate Research throughout candidature. For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry. It is University 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 University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and the Disability Liaison Unit: <a href="http://www.services.unimelb.edu.au/disability/">http://www.services.unimelb.edu.au/disability/</a></p>

<b>Graduate Attributes:</b>	<p>Doctoral degrees at the University of Melbourne seek to develop graduates who demonstrate academic leadership, increasing independence, creativity and innovation in their research work. The University expects its doctoral graduates to have the following qualities and skills: an advanced ability to initiate research and to formulate viable research questions; a demonstrated capacity to design, conduct and report sustained and original research; the capacity to contextualise research within an international corpus of specialist knowledge; an advanced ability to evaluate and synthesize research-based and scholarly literature; an advanced understanding of key disciplinary and multi-disciplinary norms and perspectives relevant to the field; highly developed problem-solving abilities and flexibility of approach; the ability to analyse critically within and across a changing disciplinary environment; the capacity to disseminate the results of research and scholarship by oral and written communication to a variety of audiences; a capacity to cooperate with and respect the contributions of fellow researchers and scholars; a profound respect for truth and intellectual integrity, and for the ethics of research and scholarship; an advanced facility in the management of information, including the application of computer systems and software where appropriate to the student's field of study; an understanding of the relevance and value of their research to national and international communities of scholars and collaborators; an awareness where appropriate of issues related to intellectual property management and the commercialisation of innovation; and an ability to formulate applications to relevant agencies, such as funding bodies and ethics committees. The University provides a variety of opportunities in addition to the supervised research program, to facilitate a student's acquisition of these attributes.</p>
<b>Links to further information:</b>	<p><a href="http://futurestudents.unimelb.edu.au/info/research">http://futurestudents.unimelb.edu.au/info/research</a></p>
<b>Notes:</b>	<p><b>Application Procedure:</b> Detailed course and scholarship application information is available at <a href="http://graduate.science.unimelb.edu.au/">http://graduate.science.unimelb.edu.au/</a> (<a href="http://graduate.science.unimelb.edu.au/">http://graduate.science.unimelb.edu.au/</a>)</p> <p><b>Facilities and Supports:</b> The <b>University of Melbourne</b> (<a href="http://gradresearch.unimelb.edu.au/">http://gradresearch.unimelb.edu.au/</a>) makes available a broad range of <b>Programs &amp; Services</b> (<a href="http://www.gradresearch.unimelb.edu.au/programs/">http://www.gradresearch.unimelb.edu.au/programs/</a>) available to graduate research students.</p>