

BH-BMED Bachelor of Biomedicine (Degree with Honours)

Year and Campus:	2016 - Parkville
CRICOS Code:	073113J
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Level:	Undergraduate
Duration & Credit Points:	100 credit points taken over 12 months full time. This course is available as full or part time.
Coordinator:	Associate Professor Richard Hughes
Contact:	<p>Academic Coordinator: Associate Professor Richard Hughes rahughes@unimelb.edu.au (mailto:rahughes@unimelb.edu.au)</p> <p>Currently enrolled students: General information: https://ask.unimelb.edu.au (https://ask.unimelb.edu.au) Contact Stop 1 (http://students.unimelb.edu.au/stop1)</p> <p>Future students: Further information: https://futurestudents.unimelb.edu.au (https://futurestudents.unimelb.edu.au) Email: http://sc.mdhs.unimelb.edu.au/askhonours (http://sc.mdhs.unimelb.edu.au/askhonours)</p>
Course Overview:	<p>The Bachelor of Biomedicine (Honours) provides an advanced, specialised year of study that follows students' completion of the requirements of the Bachelor of Biomedicine. It extends students' knowledge and skills through a supervised research project together with advanced coursework in related areas of study.</p> <p>The Bachelor of Biomedicine (Honours) is available in the following programs.</p> <ul style="list-style-type: none"> Anatomy and Neuroscience Biochemistry and Molecular Biology Biosciences Hearing Sciences (Otolaryngology) Medical Biology (Walter and Eliza Hall Institute for Medical Research) Medicine (Austin Health) Medicine (Royal Melbourne Hospital) Medicine (St Vincent's Hospital) Microbiology and Immunology Oral Health Science Paediatrics Pathology Pharmacology Physiology Primary Care (General Practice) Psychopharmacology (Psychiatry (Austin Health)) Surgery (Austin Health) Veterinary Bioscience Vision Sciences
Learning Outcomes:	<p>The Bachelor of Biomedicine (Degree with Honours) provides students with the opportunity to integrate their previous science or technology studies with advanced studies in their biomedicine field of interest, and focus their knowledge, skills and intellect on an exciting piece of original research.</p> <p>Each program within the Bachelor of Biomedicine (Degree with Honours) comprises two components:</p> <ul style="list-style-type: none"> # The advanced coursework component provides opportunities for increasing students' depth of knowledge in their particular areas of interest and expanding the theoretical basis on which they will undertake their research work. It provides students with the opportunity to develop expertise in the broad scientific field(s) in which their individual research project

	<p>is placed, including the methodologies of the relevant field(s), and the use of the scientific literature in their specialist area of study.</p> <ul style="list-style-type: none"> # The research project provides students with the opportunity to apply their knowledge and technical skills in a supervised research project and develop skills in experimental design, project implementation and in the communication of the outcomes of a research project. The project develops students' technical and data acquisition skills, their problem-solving and critical thinking capacities in the context of research, their skills in communicating to a variety of audiences and the application of appropriate risk assessment and ethical approval processes. <p>Honours also develops students' capacity for independent study and research that will help develop maturity and skills for transition to employment in a range of occupations and industries or a research higher degree.</p>
<p>Course Structure & Available Subjects:</p>	<p>The Bachelor of Biomedicine (Degree with Honours) programs are prescribed 100-point programs (equivalent to eight 12.5-point subjects) comprising Advanced Coursework and Research Project components as outlined below.</p> <p>The balance between the advanced coursework and research project components may vary from program to program, with each comprising at least 25 points and no more than 75 points of the 100-point program. The balance specific to each program will be specified in the handbook entry for each program.</p> <p>1. Advanced coursework:</p> <ul style="list-style-type: none"> # two to four, 12.5-point honours or postgraduate level advanced coursework subjects. <p>The coordinator of the honours program in which the student is enrolled must approve each student's advanced coursework program.</p> <p>Each student's advanced coursework program will comprise advanced coursework subjects offered by one or more departments teaching into the degree's honours program, which may include cognate subjects offered in relevant Masters degrees where students meet the prerequisite requirements of those subjects.</p> <p>The honours coordinator may approve a student including one 12.5-point Level 3 coursework subject. Inclusion of a Level 3 subject will also require approval of the appropriate subject coordinator. This option is only available if it specified in the details of the individual program which can be found using the links below.</p> <p>2. Research project:</p> <ul style="list-style-type: none"> # A research project subject or subjects with total points value of between 50 and 75 points. <p>Duration and commencement of honours programs</p> <p>The duration of the Bachelor of Biomedicine (Degree with Honours) programs is approximately 36 weeks within a total duration of 40 weeks for Semester 1 entrants, and approximately 36 weeks within a total duration of 46 weeks for semester 2 entrants. Not all programs are available as mid year entry. Refer to individual program entries for details.</p> <p>The dates of the honours programs may vary between programs.</p> <p>For Semester 2 entrants, up to ten weeks of leave may be taken within this 46-week period, in negotiation with the supervisor.</p> <p>Completion Requirements</p> <p>To be awarded honours students must gain:</p> <ul style="list-style-type: none"> # a pass in at least 100-points of subjects in their chosen program; # a result of at least 65% in the research project; # a weighted credit-point average of 65% or greater. <p>Students may be given permission to repeat an advanced coursework honours subject/component, or enrol in additional subject(s), in order to meet the requirement to pass 100 points. However the honours result will be determined over all subjects for which a result is entered. When the weighted credit-point average is less than 65% the honours degree will not be awarded.</p>
<p>Majors/Minors/ Specialisations</p>	<p>Honours Programs available within the Bachelor of Biomedicine (Degree with Honours)</p> <p>Honours programs are grouped by the responsible Faculty/organisational unit.</p> <p>Faculty of Medicine, Dentistry and Health Sciences</p>

Each honours project is offered by one of the following departments / institutes. Please refer to the **MDHS Honours website** (<http://www.sc.mdhs.unimelb.edu.au/why-honours>) for full details on selecting a project.

Major/Minor/Specialisation
Anatomy and Neuroscience
Biochemistry and Molecular Biology
Health Informatics
Medical Biology
Medicine (Austin Health)
Medicine (Royal Melbourne Hospital)
Medicine (St Vincent's Hospital)
Microbiology and Immunology
Oral Health Science
Otolaryngology
Paediatrics
Pathology
Pharmacology
Physiology
Primary Care (General Practice)
Psychopharmacology [Psychiatry (Austin Health)]
Surgery (Austin Health)
Vision Sciences

Faculty of Science

Major/Minor/Specialisation
Honours Program - Biosciences

Faculty of Veterinary and Agricultural Sciences

Major/Minor/Specialisation
Honours Program - Veterinary Bioscience

Entry Requirements:

1. In order to be considered for entry, applicants must:

- # have completed within the last 10 years a University of Melbourne Bachelor of Biomedicine with a weighted average mark (WAM) of at least H3 (65%) with a major relevant to the discipline stream within the Bachelor of Biomedicine (Degree with Honours) that they seek to enter; and
- # meet any specific subject prerequisites and prior academic performance requirements associated with the discipline stream that they seek to enter.

Meeting these requirements does not guarantee selection.

2. In ranking applications, the Selection Committee will consider:

- # prior academic performance, and
- # the availability of supervision and resources in suitable project areas.

	<p>Quotas may be applied to the degree as a whole or to individual discipline streams and preference may be given to applicants with evidence of appropriate preparation or potential to undertake research.</p> <p>3. The Selection Committee may seek further information to clarify any aspect of an application in accordance with the Academic Board rules (http://about.unimelb.edu.au/_data/assets/pdf_file/0007/1413727/Use-of-Selection-Instruments-Rules-of-the-Academic-Board-23-March-2015.pdf) on the use of selection instruments.</p> <p>4. For applicants who have not completed the Victorian Certificate of Education or the International Baccalaureate Diploma, the undergraduate English language requirements (http://www.policy.unimelb.edu.au/schedules/MPF1035-ScheduleA.pdf) must be met.</p>
<p>Core Participation Requirements:</p>	<p>The Bachelor of Biomedicine (Degree with Honours) 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 Bachelor of Biomedicine (Degree with Honours) 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 Student Equity and Disability Support: http://www.services.unimelb.edu.au/disability/</p>
<p>Further Study:</p>	<p>The opportunity to specialise during the honours year provides a strong foundation for the future direction of graduates. Graduates may progress to higher degree research in the sciences at the Masters or Doctorate level. They are also eligible to progress to a range of graduate coursework programs.</p>
<p>Graduate Attributes:</p>	<p>The Melbourne Experience enables our Bachelor of Biomedicine (Degree with Honours) graduates to become: Academically excellent Our graduates will be expected to: have a strong sense of intellectual integrity and the ethics of scholarship have a broad knowledge of science across a range of fields, with an in-depth understanding in one or more scientific disciplines understand the methods of science, and the history and evolution of scientific concepts be intellectually curious and apply a rigorous, critical and logical approach to enquiry understand the principles of sound project and experimental design, including data analysis, and apply this understanding to an independent research project reach a high level of achievement in writing, generic research activities, problem-solving and communication apply outstanding analytical, quantitative and technical skills to problem solving and, where relevant, design be critical and creative thinkers, with an aptitude for continued self-directed learning be adept at learning in a range of ways, including through information and communication technologies Knowledgeable across disciplines Our graduates will be expected to: examine critically, synthesise and evaluate knowledge across a broad range of disciplines expand their analytical and cognitive skills through learning experiences in diverse subjects have the capacity to participate fully in collaborative learning and to confront unfamiliar problems have a set of flexible and transferable skills for different types of employment, including: excellent organisational, planning and time management skills ability to access, evaluate and utilise information from diverse sources ability to communicate their ideas effectively in both written and verbal formats to both specialists and non-specialists knowledge, skills and attitude that enable adaptation to scientific, technological and social change. Leaders in communities Our graduates will be expected to: initiate and implement constructive change in their communities, including professions and workplaces have excellent interpersonal and decision-making skills, including an awareness of personal strengths and limitations mentor future generations of learners engage in meaningful public discourse, with a profound awareness of community needs Attuned to cultural diversity Our graduates will be expected to: value different cultures be well-informed citizens able to contribute to their communities wherever they choose to live and work have an understanding of the social and cultural diversity in our community respect indigenous knowledge, cultures and values Active global citizens Our graduates will be expected to: accept social and civic</p>

	responsibilities be advocates for improving the sustainability of the environment have a broad global understanding, with a high regard for human rights, equity and ethics
Generic Skills:	<p>Graduates of the Bachelor of Biomedicine (Degree with Honours) programs will have been provided with the opportunity to develop the skills to:</p> <ul style="list-style-type: none"> # Use and evaluate scientific literature; # Apply their understanding to the design and implementation of a research plan; # Acquire, analyse, evaluate and interpret data using appropriate techniques; # Communicate advanced concepts in their discipline in written and oral form; # Exercise responsibility for their own learning; # Work effectively in teams, both collaboratively and independently; # Manage their time effectively.
Links to further information:	http://sc.mdhs.unimelb.edu.au/why-honours
Notes:	For department contact details, please refer to: http://sc.mdhs.unimelb.edu.au/choosing-program (http://sc.mdhs.unimelb.edu.au/choosing-program)