

THE UNIVERSITY OF NOTRE DAME AUSTRALIA

Program Code: 3581 CRICOS Code: 113583K

PROGRAM REQUIREMENTS:

Bachelor of Advanced Biomedical Science (Honours) BAdvBioMedSc(Hons)

Responsible Owner: Responsible Office: Contact Officer: Effective Date: National Head of School of Health Sciences & Physiotherapy Faculty of Medicine, Nursing, Midwifery and Health Sciences National Manager, Enrolments, Fees & Student Administration 1 January 2024



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2 AMENDMENTS

Amendments to these requirements will be made in accordance with the General Regulations.

Version	Date Amended	Amendment Details	Approved by
1	April 2023	New Program Created	
2			
3			
4			
5			

3 PURPOSE

These Program Requirements set out the approved requirements for the Bachelor of Advanced Biomedical Science (Honours) Award.

4 OVERVIEW

4.1 Campus Availability

The Bachelor of Advanced Biomedical Science (Honours) has been approved for delivery on the Sydney Campus.

4.2 Student Availability

The Bachelor of Advanced Biomedical Science (Honours) is available for enrolment to domestic Students and international Students with a student visa.

4.3 Australian Qualifications Framework

The Bachelor of Advanced Biomedical Science (Honours) is accredited by the University as a Level 8 AQF qualification.

4.4 Duration

The Volume of Learning for the Bachelor of Advanced Biomedical Science (Honours) is four (4) years of equivalent full-time study.

4.5 Maximum Duration

The maximum period of time within which a student is permitted to complete the Bachelor of Advanced Biomedical Science (Honours) Award is detailed in the University's General Regulations.

4.6 Study Mode

The Bachelor of Advanced Biomedical Science (Honours) is offered in Internal Study mode.

4.7 Professional Accreditation

There are no professional accreditation requirements applicable to this Program.

5 ENTRY REQUIREMENTS

5.1 University Admission Requirements

To be eligible for admission to The University of Notre Dame Australia, all applicants must meet the <u>University's minimum requirements for admission</u>. The requirements for admission are detailed in the University's Policy: *Admissions*.

5.2 Specific Program Requirements for Admission

To be eligible for the Biomedical Science Assured Graduate Pathway into Doctor of Medicine (Sydney), students are required to attain a prescribed minimum ATAR score*, successful completion of the UCAT and an interview.

*Adjustment factors will not be applied for entry into this program.

6 PRACTICUM OR INTERNSHIP REQUIREMENTS

6.1 In the Bachelor of Advanced Biomedical Science (Honours), industry-relevant skills are taught in the Biomedical Science Techniques and Practicum course.

7 PROGRAM REQUIREMENTS

7.1 **Program Description**

Advanced Biomedical Science (Honours) is a 4-year undergraduate degree exploring a wide range of scientific disciplines that focus on the human body in the context of health and disease. The degree covers all of the modern scientific principles required in biomedical science practice and exposes the student to contemporary scientific techniques that have been used by biomedical scientists, to develop innovative diagnostic techniques or novel treatments for disease. The Honours component is undertaken in the fourth year allowing students to undertake a research project within a field of Biomedical Science / field of Medicine in collaboration with an academic supervisor. Students will graduate with skills in research planning, inductive reasoning, data analysis, written and oral communication, that culminate in a written thesis.

7.2 Program Learning Outcomes

Upon successful completion of the Bachelor of Advanced Biomedical Science (Honours) graduates will be able to:

- 1. Apply thorough scientific knowledge gained through in-depth study of Biomedical Sciences
- 2. Plan, implement and undertake scientific methodology and experimentation.
- 3. Apply research skills to critically appraise the scientific literature.
- 4. Analyse, evaluate and interpret scientific data and effectively communicate results in written and oral presentations.
- 5. Demonstrate leadership, responsibility, and a collaborative approach to teamwork in the Biomedical profession.
- 6. Integrate and apply professional knowledge and interpersonal skills gained through work integrated learning during the completion of an Honours project.
- 7. Apply advanced theoretical knowledge and technical skills to design, frame, conduct, and report on an independent research project.
- 8. Critically evaluate, analyse, and deploy evidence in support of a research thesis.

7.3 Required Courses

To be eligible for the award of Bachelor of Advanced Biomedical Science (Honours) students must complete a minimum of 800 Units of Credit chosen from the courses listed in Appendix A comprising:

50 Units of Credit from two (2) Core Curriculum Courses

750 Units of Credit from twenty-five (25) Courses

7.4 Elective Courses

Students enrolled in the Bachelor of Advanced Biomedical Science (Honours) are required to complete three (3) elective courses.

7.5 Course substitutions

Course substitutions, where permitted, must be approved by the National Head of School.

7.6 Assured Pathway into Doctor of Medicine (Sydney only)

Students in this assured pathway must maintain a minimum GPA of 2.5 each semester during the completion of their undergraduate Advanced Biomedical Science (Honours) degree.

8 **DEFINITIONS**

For the purpose of these Requirements, the following definitions are available in the General Regulations.

- Leave of Absence
- Pre-requisite Course

- Major
- Units of Credit
- Minor
- Electiv
- Elective

Specialisation

Co-requisite Course

General Elective

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9 LIST OF APPENDICES

APPENDIX A: Bachelor of Advanced Biomedical Science (Honours)

YEAR ONE						
Semester One			Semester Two			
Course Code	Course Title	Units of credit	Course Code	Course Title	Units of credit	
HLTH1000	Human Structure & Function	25	HLTH1005	Cellular Biology and Genetics	25	
HLTH1150	Academic Research & Writing in Health Sciences	25	HLTH1030	Anatomy & Physiology of Body Systems	25	
SCIE1000	Introduction to Chemistry	25	CORE1000	Foundations of Wisdom	25	
PSYC1030	Introduction to Applied Psychology A	25	ABOR1000	Aboriginal People	25	
Total Units of C	Credit for Y1 S1	100	Total Units of	Credit for Y1 S2	100	
Total Units of credit Year One 200						

YEAR TWO					
Semester One			Semester Two		
Course Code	Course Title	Units of credit	Course Code	Course Title	Units of credit
	The Pathological Basis of			Cellular and Systems	
HLTH2004	Disease	25	HLTH2002	Neuroscience	25
HLTH2300	Microbiology	25	HLTH2210	Biochemistry	25
Flective	Elective	25	HI TH2003	Developmental and Reproductive Biology	25
CORE	CORE Elective	25	MATH1020	Statistics	25
Total Units of Credit for Y2 S1 100			Total Units of	Credit for Y2 S2	100
Total Units of credit Year Two 200					

YEAR THREE					
Semester One			Semester Two		
Course Code	Course Title	Units of credit	Course Code	Course Title	Units of credit
	Biomedical Science			Drug Innovation, Delivery and	
HLTH3004	Techniques and Practicum	25	HLTH3006	Evaluation	25
HLTH3100	Immunology	25	HLTH3250	Infectious Disease	25
HLTH3400	Human Genetics	25	HLTH3005	Clinical and Applied Neuroscience	25
Elective	Elective	25	Elective	Elective	25
Total Units of Credit for Y3 S1 100			Total Units of Credit for Y3 S2		100
Total Units of credit Year Three 200					

YEAR FOUR						
Semester One	Semester One Semester Two					
		Units			Units	
	Course Title	of		Course Title	of	
Course Code		credit	Course Code		credit	
	Advanced Research Methods,			Honours Research Biomedical		
HLTH4400	Statistics & Ethics	25	HLTH4014	Science Part B	100	
HLTH4013	Honours Research Biomedical					
	Science Part A	75				
Total Units of Credit for Y4 S1 10			Total Units of Credit for Y4 S2		100	
Total Units of credit Year Four					200	
TOTAL PROGRAM UNITS OF CREDIT:					800	

APPENDIX B: LIST OF PRE-REQUISITES/CO-REQUISITES

COURSE CODE	COURSE TITLE	PRE-REQUISITE	CO-REQUISITE
HLTH1030	Anatomy & Physiology of Body	HLTH1000 Human	
	Systems	Structure & Function	
HLTH3014	Data Analysis & Experimental Design	HLTH1150 Academic	
		Research & Writing in	
		Health Sciences (or	
		equivalent)	
HLTH2300	Microbiology	HLTH1005 Cellular Biology	
		and Genetics	
HLTH2210	Biochemistry	HLTH1005 Cellular Biology	
		and Genetics AND	
		SCIE1000 Introduction to	
		Chemistry	
HL1H2003	Developmental and Reproductive Biology	HLIH1030 Anatomy &	
		Physiology of Body	
		Systems AND HLIHIXXX	
		Cellular Biology and	
	The Dethelesiael Desis of Llumon Disease		
HLIH2004	The Pathological Basis of Human Disease	ALTHIUSU Anatomy &	
		Systems	
	Immunology	HI TH1005 Cellular Biology	
	Innihology	and Genetics	
HI TH3250	Infectious Disease	HI TH2300 Microbiology	
1121110200		AND	
		HLTH3100 Immunology	
HLTH3400	Human Genetics	HLTH2210 Biochemistry	
HLTH2002	Cellular and Systems Neuroscience	HLTH1000 Human	
		Structure & Function OR	
		HLTH1030 Anatomy &	
		Physiology of Body	
		Systems	
HLTH3005	Clinical and Applied Neuroscience	HLTH2002 Cellular and	
		Systems Neuroscience	
HLTH3004	Biomedical Science Techniques and Practicum	HLTH2210 Biochemistry	
HLTH3006	Drug Innovation, Delivery and Evaluation	HLTH2004 The	
		Pathological Basis of	
		Human Disease OR	
		HLTH2002 Cellular and	
		Systems Neuroscience	
		AND	
		HLTH3400 Human	
		Genetics	