Master of Biomedical Science (MBMS) - MBioMedSc

CRICOS code (International applicants): 057914J

This program is offered only to continuing students. No new admissions will be accepted. Students who are interested in this study area should contact us.

	On-campus
Semester intake:	No new admissions
Campus:	Toowoomba
Fees:	Commonwealth supported place Domestic full fee paying place International full fee paying place
Standard duration:	1 year full-time, 4 years part-time maximum

Contact us

Current students

Ask a question
Freecall (within Australia): 1800 007 252
Phone (from outside Australia): +61 7 4631 2285
Email: usq.suppport@usq.edu.au

Program focus

The aim of this program is to provide previous graduates from the life sciences with a highly multidisciplinary and advanced education in cellular, microbiological, physiological and molecular biology technology.

Program aims

This program aims to provide Bachelor of Science or Bachelor of Biomedical Science (or equivalent) graduates with advanced formal instruction to enhance their theoretical and practical skills in specified areas of biomedical science. Candidates will also undertake training in investigative techniques. The program will provide a sound basis for candidates wishing to undertake further advanced research studies, as well as preparing them for scientific research and/or educational roles within the biomedical laboratory sciences.

Program objectives

On completion of the program graduates will be able to:

- perform scholarly enquiry into issues that affect biomedical sciences
- demonstrate an advanced understanding of the principles underlying specified disciplines in biomedical science
- apply these principles to problem-solving
- interact with professionals trained in other disciplines towards the solution of common problems in biomedical science
- demonstrate skills in drawing upon the growing content of knowledge in these disciplines
- demonstrate advanced competency in laboratory techniques and the use of instrumentation relevant to the biomedical sciences
- prepare concise, accurate reports of experimental work
- access appropriate scientific literature and understand and apply the results of scientific research at a level appropriate to a new graduate
- demonstrate skills in the communication of ideas and concepts.

Admission requirements

To be considered for entry, applicants must be graduates holding a minimum of a three-year Bachelor of Biomedical Science or Bachelor of Science degree in an appropriate area of study from an Australian university with a GPA of 5.0 or equivalent. USQ graduates from the Bachelor of Biomedical Science should consult the Program Coordinator as some variation to the Recommended Enrolment Pattern may be required.

International Applicants

International applicants must have also met the University's English language requirements or have completed the University's ELICOS/EAP programs .

Program fees

Commonwealth supported place

A Commonwealth supported place is where the Australian Government makes a contribution towards the cost of your higher education and you as a student pay a student contribution amount, which varies depending on the courses undertaken. You are able to calculate the fees for a particular course via the Course Fee Finder. Commonwealth Supported students may be eligible to defer their fees through a Government loan called HECS-HELP.

Domestic full fee paying place

Domestic full fee paying places are funded entirely through the full fees paid by the student. Full fees vary depending on the courses that are taken. You are able to calculate the fees for a particular course via the Course Fee Finder.
Permanent Humanitarian Visa holders, Permanent Resident visa holders and New Zealand citizens who reside outside Australia pay full tuition fees.
Domestic full fee paying students may be eligible to defer their fees through a Government loan called FEE-HELP.

International full fee paying place

International students pay full fees. Full fees vary depending on the courses that are taken and whether they are studied on-campus, via distance education/online. You are able to calculate the fees for a particular course via the Course Fee Finder.

Program structure

The Master of Biomedical Science is comprised of eight units of coursework study. Students must successfully complete a minimum of four level 8 courses. The program may be undertaken on a full-time or part-time basis. Intakes are in March and July of each year (Contact the Program Coordinator for more information). The program is offered in on–campus (ONC) mode only.
Courses offered are:

Semester 1 Courses	Semester 2 Courses
Core Courses	**Core Courses**
BIO8102	BIO8105 Cardiovascular Science
BIO8103	BIO8104 Special Study in Biomedical Science+
BIO3313 Human Physiology and Pharmacology in Disease 1	Elective 1
BIO4205 *#	Elective 2
or an Elective course from the following list:	**Choose an Elective course from the following list:**
BIO2201 Biochemistry 1	BIO3323 Human Physiology and Pharmacology in Disease 2
BIO2209 Cell Biology	BIO2207 Genetics

BIO2203 Human Physiology*	BIO3301 Biochemistry 2
SCI4405 Research Practice and Ethics^	BIO3309 Molecular Biology
BIO8104 Special Study in Biomedical Science+	BIO3333 Cardiorespiratory and Sports Physiology
Other course approved by the Program Coordinator	BIO8209 #
	SCI4405 Research Practice and Ethics^
	Other course approved by the Program Coordinator

Footnotes

+ BIO8104 Special Study in Biomedical Science is a course requiring a candidate to undertake a substantive literature review in a biomedical science related area.
* Students may undertake an elective course if they have completed adequate courses in medical microbiology approved by the Program Coordinator
# Web based course
^ If a student is wishing to continue into a MSc (by research), then they should enrol in SCI4405 Research Practice and Ethics

Candidates who have completed common courses in the MBMS will be required to undertake an approved elective course in lieu of the completed study.

List of approved elective courses

Course	Semester Offered
CSC2401 Algorithms and Data Structures	S2
CSC2406 Web Technology	S2
CSC2408 Software Development Tools	S1, S2
CSC3400 Database Systems	S1
MAT2100 Algebra and Calculus II	S2
STA2300 Data Analysis	S1, S2
STA2301 Distribution Theory	S1
STA2302 Statistical Inference	S2
STA3301 Statistical Models	S2
BIO2201 Biochemistry 1	S1
BIO2203 Human Physiology	S1
BIO2207 Genetics	S2
BIO2209 Cell Biology	S1
BIO3301 Biochemistry 2	S2
BIO3309 Molecular Biology	S2
BIO3315 Medical Microbiology 2	S1
BIO3317	S1
BIO3323 Human Physiology and Pharmacology in Disease 2	S2
BIO3333 Cardiorespiratory and Sports Physiology	S2
BIO8102	S1
BIO8103	S1
BIO8104 Special Study in Biomedical Science	S1, S2
BIO8211 Bioinformatics	S1
BIO8213	S1
BIO8309	S2

SCI4403 Special Study in Science	S1, S2
SCI4405 Research Practice and Ethics	S1, S2

All level 4 courses (indicated by a number beginning with 4) are theory only consisting of two lectures plus one tutorial per week for 13 weeks. All level 8 courses are practical based and consist of three hours of laboratory plus one hour of tutorial per week for 10 weeks.

Required time limits

Students have a minimum of 1 year and a maximum of 4 years to complete this program.

IT requirements

Students should visit the USQ Recommended Hardware and Recommended Software sites to check that their computers are capable of running the appropriate software and versions of Internet web browsers and to check the minimum and recommended standards for software.

Other program requirements

To qualify for the award of Master of Biomedical Science a candidate must complete a total of eight units of study as prescribed above within four years of admission to the program. At least six units of study must be completed at USQ.

Exemptions

Exemption may be granted where candidates have either completed Level 2 core courses or equivalents and or where candidates have completed courses in other USQ programs. However, candidates must complete another course of study approved by the Program Coordinator in lieu of any exemption given.

Enrolment

Recommended Enrolment Pattern - Full-time (2 Semesters, Semester 1 enrolment option)

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (WEB)		
	Year	Sem	Year	Sem	Year	Sem	
BIO8102	1	1					
BIO8103	1	1					
BIO3313 Human Physiology and Pharmacology in Disease 1	1	1					Pre-requisite: BIO2203 and BIO2213
BIO4205 *#					1	1	
BIO8105 Cardiovascular Science	1	2					Pre-requisite: BIO2203 or BIO3313
BIO8104 Special Study in Biomedical Science	1	2					
Elective	1	2					
Elective	1	2					

Footnotes

* Students may undertake an elective course if they have completed adequate courses in medical microbiology approved by the Program Coordinator

\# Web based course

Recommended Enrolment Pattern - Full-time (2 Semesters, Semester 2 enrolment option)

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (WEB)		
	Year	Sem	Year	Sem	Year	Sem	
BIO8104 Special Study in Biomedical Science	1	2					
BIO8105 Cardiovascular Science*#	1	2					Pre-requisite: BIO2203 or BIO3313
Elective	1	2					
Elective	1	2					
BIO8102	2	1					
BIO8103	2	1					
BIO3313 Human Physiology and Pharmacology in Disease 1	2	1					Pre-requisite: BIO2203 and BIO2213
BIO4205 *#			2	1	2	1	

Footnotes

* Students may undertake an elective course if they have completed adequate courses in medical microbiology approved by the Program Coordinator

\# Web based course

Recommended Enrolment Pattern - Part-time (4 Semesters, Semester 1 enrolment option)

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (WEB)		
	Year	Sem	Year	Sem	Year	Sem	
BIO8102	1	1					
BIO8103	1	1					
BIO8105 Cardiovascular Science	1	2					Pre-requisite: BIO2203 or BIO3313
BIO8104 Special Study in Biomedical Science	1	2					
BIO3313 Human Physiology and Pharmacology in Disease 1	2	1					Pre-requisite: BIO2203 and BIO2213
BIO4205 *#					2	1	
Elective	2	2					
Elective	2	2					

Footnotes

* Students may undertake an elective course if they have completed adequate courses in medical microbiology approved by the Program Coordinator

\# Web based course

Recommended Enrolment Pattern - Part-time (4 Semesters, Semester 2 enrolment option)

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (WEB)		
	Year	Sem	Year	Sem	Year	Sem	
BIO8105 Cardiovascular Science	1	2					Pre-requisite: BIO2203 or BIO3313
BIO8104 Special Study in Biomedical Science	1	2					
BIO8102	2	1					
BIO8103	2	1					
Elective	2	2					
Elective	2	2					

Course	Year of program and semester in which course is normally studied						Enrolment requirements
	On-campus (ONC)		External (EXT)		Online (WEB)		
	Year	Sem	Year	Sem	Year	Sem	
BIO3313 Human Physiology and Pharmacology in Disease 1	3	1					Pre-requisite: BIO2203 and BIO2213
BIO4205 *#			3	1	3	1	

Footnotes

* Students may undertake an elective course if they have completed adequate courses in medical microbiology approved by the Program Coordinator

\# Web based course