Laboratory Medicine, Biomedical Science majors

Recommended enrolment pattern – Laboratory Medicine major

	Semester 1		Semester 2	
1st Year courses	BIO1101	Biology 1	STA2300	Data Analysis
	CHE1110	Chemistry 1	CHE2120	Chemistry 2
	BIO1103	Pathology Studies	BIO1204	Introduction to Biomedical Science
	BIO1104	Medical Microbiology and Immunology 1	BIO1205	Pathology Clinical Placement 1
2nd Year courses	BIO2106	Medical Microbiology and Immunology 2	BIO2217	Transfusion Science
	BIO2107	Cell and Molecular Biology 1	BIO2215	Clinical Biochemistry 1
	BIO2108	Haematology 1	BIO2216	Histopathology 1
	BIO2105	Pathology Clinical Placement 2	BIO2214	Pathology Clinical Placement 3
3rd Year courses	BIO3107	Haematology 2	BIO3215	Clinical Biochemistry
	BIO3108	Histopathology 2	BIO3206	Medical Microbiology and Immunology 3
	BIO3105	Pathology Clinical Placement 4	BIO3207	Cell and Molecular Biology 2
	BIO3106	Pathology Residential School 1	BIO3208	Pathology Residential School 2

Students undertaking the Associate Degree of Health (Laboratory Medicine) are required to complete 1st & 2nd year courses only. Bachelor of Health (Laboratory Medicine) students are required to complete all three years of the program.

Recommended enrolment pattern – Biomedical Science major

	Semester 1		Semester 2	
1st Year courses	BIO1101	Biology 1	STA2300	Data Analysis
	CHE1110	Chemistry 1	CHE2120	Chemistry 2
	BIO1103	Pathology Studies	BIO1204	Introduction to Biomedical Science
	BIO1104	Medical Microbiology and Immunology 1	BIO1203 *or* BIO1205	Human Anatomy and Physiology Pathology Clinical Placement 1
2nd Year courses	BIO22201	Biochemistry 1	BIO2207	Genetics
	BIO2203	Human Physiology	BIO2213	Pharmacology
	BIO2209	Cell Biology	Elective 1	
	CMS1100	Communicating in the Sciences	Elective 2	
3rd Year courses	BIO3313	Human Physiology and Pharmacology in Disease 1	BIO3301	Biochemistry 2
	BIO3315	Medical Microbiology 2	BIO3309	Molecular Biology
	BIO3317	Medical Microbiology 1	SCI3323	Human Physiology and Pharmacology in Disease 2
	Elective 3		Elective 4	

FOR MORE INFORMATION 1800 269 500 • studysci@usq.edu.au • www.usq.edu.au

The information contained in this brochure is correct at time of printing. However, you should check details are still correct before enrolling.

CRICOS QLD 00244B NSW 02225M

USQ GRAPHICS (11-483)

Bachelor of Health (Laboratory Medicine, Biomedical Science)

USQ FACULTY OF SCIENCES

USQ

Want an exciting career in the emerging health area? Want to understand how the human body works? Want to study flexibly on-campus, or at home? Want to study either full-time or part-time? Want access to qualified and committed educators, well experienced in distance education?

USQ UNIVERSITY OF SOUTHERN QUEENSLAND fulfilling lives

The Bachelor of Health (BHEA) degree consists of two majors: a major in Laboratory Medicine and a major in Biomedical Science. The Laboratory Medicine major was designed in consultation with the pathology industry and is aimed at training scientists to work in medical pathology laboratories.

The Biomedical Science major undertakes training for careers in research, medicine and teaching.

Bachelor of Health – Laboratory Medicine major

Program Focus and Career Opportunities

The Bachelor of Health (Laboratory Medicine) is primarily designed to provide training by external study (with a number of courses being available on campus as well) for students wishing to pursue a career as a Medical Laboratory Scientist.

The major includes training in the key pathology disciplines of Clinical Biochemistry, Haematology, Histopathology, Medical Microbiology and Transfusion Science. The major also incorporates four courses of Pathology Clinical Placement (commencing in semester 2 of year 1) where students gain industrial experience in an functioning pathology laboratory.

Other opportunities include careers as research scientists; medical, clinical or research technicians in the university, health or biotechnology sectors; health, medical and scientific product marketing.

Program Structure

The Laboratory Medicine major in the Bachelor of Health program is offered by external study with the majority of first year courses also being offered on-campus. The program consists of 24 courses of which 18 are theory-based courses that can be completed by external study. Several courses in the first year of the program have embedded residential schools which are presented in two blocks. There are a further two specialist training Pathology Residential School courses in the third year of study. The program also contain four Pathology Clinical Placement courses which provides students with industrial experience in operational Medical Pathology Laboratories. The Pathology Clinical Placements commence in semester 2 in the first year of study.

Additional Requirements

Students must satisfy the following requirements for clinical placement:

- evidence of Hepatitis B vaccination
- a signed Qld Health Student Orientation Checklist, Qld Health Placement Deed and a Qld Health Placement Privacy and Consent Deed
- a signed USQ Student Clinical Placement Policy Declaration.

Bachelor of Health – Biomedical Science major

CRICOS code (International applicants): to be advised

Program Focus and Career Opportunities

The Bachelor of Health (Biomedical Science) provides education and training for a career in biomedical sciences. Biomedical scientists provide the scientific support and research for medicine and support industries related to medicine, such as the pharmaceutical and diagnostic companies. Graduates will have a knowledge base and skills that will fit them for a career in medical research, pathology services, public health laboratories, diagnostic and pharmaceutical industries. They will have a broad education allowing them to diversify after graduation, including seeking placement into professional programs such as medicine, pharmacy, veterinary science, dentistry, optometry, physiotherapy and occupational therapy.

Program Structure

The Biomedical Science major in the Bachelor of Health program is offered at both Toowoomba and Fraser Coast campuses. Most first year courses are offered both on campus and by external study but all second and third year courses are currently offered on campus only. The program consists of 24 courses.

Associate Degree in Health

Program Focus and Career Opportunities

The Laboratory Medicine major in the Associate Degree of Health (AHEA) is primarily designed to provide training by external study for students wishing to pursue a career as Medical Laboratory Technicians and Technical Officers.

Opportunities include careers as medical, clinical or research technicians in the university, health or biotechnology sectors, health, medical and scientific product marketing.

Program Structure

The Associate Degree of Health (Laboratory Medicine) program is offered by external study. The program consists of 16 courses which are common with the first two years of the BHEA. 13 courses of the AHEA are theory based courses that can be completed by external study. Several courses in the first year of the program have embedded residential schools which are presented in two blocks. The program also contains three Pathology Clinical Placement courses which provide students with industrial experience in operational Medical Pathology Laboratories. The Pathology Clinical Placements commence in semester 2 in the first year of study. Because the first two years of the AHEA are common with the BHEA, graduates wishing to complete a BHEA can do so by completing a further year of study.

Admission Requirements

For entry into the Bachelor of Health (Laboratory Medicine and Biomedical Science) majors or Associate Degree of Health (Laboratory Medicine) program, applicants will require Queensland Senior School Certificate (Year 12) or equivalent with the following:

- English (four semesters Sound Achievement) or equivalent. International applicants must have met the University's English language requirements or have completed the University's ELICOS/UNIPREP.
- Study in one of Biological Science, Chemistry, Physics or Multi-strand Science or equivalent.

Candidates for admission into this program must satisfy the normal USQ entry requirements for undergraduate programs. Please refer to Section 2.2 of the Admissions Policy, Section 2.2.1 (for Australian students) and Section 2.2.3 (for international students).

Domestic Students

- Application for this program may be made through the Queensland Tertiary Admissions Centre (QTAC). If you completed Year 12 at a Queensland secondary school you will be assessed for entry on the basis of your Overall Position (OP) or equivalent score. Year 12 students from other states or territories are considered for entry on the basis of their UAI, ENTER or TER and the subject prerequisites indicated. Other applicants will be based on their overall Rank.
- Candidates with extensive industrial experience in Clinical Pathology laboratories may be eligible for some course exemptions. Applicants wishing to enter the program with extensive prior learning or industrial experience should consult the program co-ordinator in the first instance.

International Students

This program is offered to international students. An international student is a person who is not an Australian or New Zealand citizen and not an Australian permanent resident. Please refer to USQ International for information about entry requirements, visa arrangements and how to apply.