

THE UNIVERSITY OF QUEENSLAND

Bachelor of Advanced Science (Honours) (Pre-medicine Study Plans)

Program information

General study planner

Pre-medicine Study Plans are also available for the
Bachelor of Science and the Bachelor of Biomedical Science

The Bachelor of Advanced Science (Honours) with a major in Biomedical Science or Biology (Biochemistry & Molecular Biology, Genetics or Microbiology stream) provides clear study plans that allow students with strong interests in research to also prepare appropriately for subsequent study in the MD program. This program is recommended for students who are planning to take the intercalated MD/PhD programs. The 4th Honours year will provide the research training required for the PhD part of the MD/PhD programs.

Please note: these plans are a suggestion only, and there are many other course progressions and majors that can provide appropriate background for entry to the MD. If you need further assistance or would like to speak to an academic advisor, please contact the [Science Student Enquiries Office](#).

From 2022, BIOM2011/2013 and BIOM2012 will be compulsory prerequisites for entry to the MD. If you intend to apply for entry to the MD in or after 2022, you must complete these courses.

PLAN 1: Bachelor of Advanced Science (Honours) – Major in Biomedical Science (Body Systems emphasis)

This plan allows students to meet the requirements of the B Adv Sc (Hons) (Biomed Sc) with a focus on body systems, but also meet the recommended prior study for the MD of 2nd level Biochemistry, Anatomy and Physiology. This B Adv Sc (Hons) requirements of a #2 research project (SCIE3220) and Honours are included. Courses counting to the Biomed Sc major are shown **with the codes in red**. In addition, courses **in blue** contribute to a minor in Microbiology.

	Semester 1		Semester 2	
Year One	BIOL1020	Genes, Cells & Evolution	BIOL1040	Cells to Organisms
	CHEM1100	Chemistry 1	CHEM1200	Chemistry 2
	SCIE1100	Advanced Theory & Practice in Science	SCIE1200	Introduction to Science Research
	PHYS1171	Physical Basis of Biological Systems	STAT1201	Analysis of Scientific Data
Year Two	BIOC2000	Biochemistry & Molecular Biology	BIOL2202	Genetics
	BIOL2200	Cell Structure & Function	BIOM2012	Systems Physiology
	BIOM2020	Human Anatomy	MICR2000	Microbiology & Immunology
	BIOM2013	Advanced Integrative Cell & Tissue Biology	BIOM2222	Advanced Techniques in Biomedical Science
Year Three	BIOM3002	Human Biomedical Research	BIOM3015	Integrative Physiology & Pathophysiology
	BIOM3014	Molecular & Cellular Physiology	BIOM3333	Principles of Biomedical Research
	BIOM3020	Integrated Endocrinology	SCIE3220	Science Research Skills
	HLTH2000	Understanding Digital Health	MICR3001	Microbes & Human Health
Year Four	BIOM6501 Research Project in Biomedical Sciences		BIOM6501 Research Project in Biomedical Sciences	

PLAN 2: Bachelor of Advanced Science (Honours) – Major in Biomedical Science (Molecular & Cellular Biology emphasis)

This plan allows students to meet the requirements of the B Adv Sc (Hons) with a Biomed Sc major, focus on molecular and cellular biology, but also meet the recommended prior study for the MD of 2nd level Biochemistry, Anatomy and Physiology. This B Adv Sc (Hons) requirements of a #2 research project (SCIE3260) and Honours are included. Courses counting to the Biomed Sc major are shown with the codes in red.

	Semester 1		Semester 2	
Year One	BIOL1020	Genes, Cells & Evolution	BIOL1040	Cells to Organisms
	CHEM1100	Chemistry 1	CHEM1200	Chemistry 2
	SCIE1100	Advanced Theory & Practice in Science	SCIE1200	Introduction to Science Research
	PHYS1171	Physical Basis of Biological Systems	STAT1301	Advanced Analysis of Scientific Data
Year Two	BIOC2000	Biochemistry & Molecular Biology	BIOL2202	Genetics
	BIOL2200	Cell Structure & Function	BIOM2012	Systems Physiology
	BIOM2020	Human Anatomy	BIOM2402	Principles of Pharmacology
	BIOM2013	Advanced Integrative Cell & Tissue Biology	BIOM2222	Advanced Techniques in Biomedical Sciences
Year Three	BIOC3000	Advanced Biochemistry & Molecular Biology	BIOC3006	Biochemistry of Metabolism in Health & Disease
	BIOL3004	Genomics & Bioinformatics	BIOM3333	Principles of Biomedical Research
	BIOL3006	Molecular Cell Biology	SCIE3260	Introduction to Research in Chemistry, Biochemistry & Microbiology (A)
	BIOM3401	Systems Pharmacology	ANAT3022	Functional Neuroanatomy
Year Four	BIOM6501	Research Project in Biomedical Sciences	BIOM6501	Research Project in Biomedical Sciences

PLAN 3: Bachelor of Advanced Science (Honours) – Major in Biology (Biochemistry & Molecular Biology stream)

This plan allows students to meet the requirements of the B Adv Sc (Hons) with a major in Biology, focussing on Biochemistry & Molecular Biology, but also meet the recommended prior study for the MD of 2nd level Biochemistry, Anatomy and Physiology. This B Adv Sc (Hons) requirements of a #2 research project (SCIE3260) and Honours are included. Courses counting to the Biology major are shown with the codes in red. In addition, courses in blue contribute to a minor in Biomedical Science.

	Semester 1		Semester 2	
Year One	BIOL1020	Genes, Cells & Evolution	BIOL1040	Cells to Organisms
	CHEM1100	Chemistry 1	CHEM1200	Chemistry 2
	SCIE1100	Advanced Theory & Practice in Science	SCIE1200	Introduction to Science Research
	PHYS1171	Physical Basis of Biological Systems	STAT1301	Advanced Analysis of Scientific Data
Year Two	BIOC2000	Biochemistry & Molecular Biology	BIOM2402	Principles of Pharmacology
	BIOL2200	Cell Structure & Function	BIOM2012	Systems Physiology
	BIOL2106	Advanced Biostatistics	MICR2000	Microbiology & Immunology
	BIOM2013	Advanced Integrative Cell & Tissue Biology	BIOL2902	Advanced Genetics
Year Three	BIOC3000	Advanced Biochemistry & Molecular Biology	BIOC3006	Biochemistry of Metabolism in Health & Disease
	BIOL3004	Genomics & Bioinformatics	BIOC3003	Human Molecular Genetics & Disease
	BIOL3006	Molecular Cell Biology	SCIE3260	Introduction to Research in Chemistry, Biochemistry &

				Microbiology (A)
	BIOM2020	Human Anatomy	BIOM3003	Functional Musculoskeletal Anatomy
Year Four	BIOL6402 + BIOL6501	Critical Thinking & Communication in Biology + Research Project in Biological Sciences	BIOL6501	Research Project in Biological Sciences

PLAN 4: Bachelor of Advanced Science (Honours) – Major in Biology (Genetics stream)

This plan allows students to meet the requirements of the B Adv Sc (Hons) with a major in Biology, focussing on Genetics, but also meet the recommended prior study for the MD of 2nd level Biochemistry, Anatomy and Physiology. This B Adv Sc (Hons) requirements of a #2 research project (SCIE3260) and Honours are included. Courses counting to the Biology major are shown **with the codes in red**. In addition, courses **in blue** contribute to a minor in Biomedical Science.

	Semester 1		Semester 2	
Year One	BIOL1020	Genes, Cells & Evolution	BIOL1040	Cells to Organisms
	CHEM1100	Chemistry 1	PHYS1171	Physical Basis of Biological Systems
	SCIE1100	Advanced Theory & Practice in Science	SCIE1200	Introduction to Science Research
	BIOL1030	Global Changes in Biology	STAT1301	Advanced Analysis of Scientific Data
Year Two	BIOC2000	Biochemistry & Molecular Biology	MICR2000	Microbiology & Immunology
	BIOL2200	Cell Structure & Function	BIOM2012	Systems Physiology
	BIOL2106	Advanced Biostatistics	BIOL2201	Evolution
	BIOM2013	Advanced Integrative Cell & Tissue Biology	BIOL2902	Advanced Genetics
Year Three	MICR3002	Virology	BIOL3014	Advanced Bioinformatics
	BIOL3004	Genomics & Bioinformatics	BIOC3003	Human Molecular Genetics & Disease
	BIOL3006	Molecular Cell Biology	SCIE3260	Introduction to Research in Chemistry, Biochemistry & Microbiology (A)
	BIOM2020	Human Anatomy	BIOM3003	Functional Musculoskeletal Anatomy
Year Four	BIOL6402 + BIOL6501	Critical Thinking & Communication in Biology + Research Project in Biological Sciences	BIOL6501	Research Project in Biological Sciences