

Science

Bachelor of Medical Science (3991) - [Handbook](#)

2022 Commencing Students
Program Structure



Single Degree Mode

PROGRAM STRUCTURE	Medical Science	120 UOC (20 courses)	120 UOC	144 UOC
	Science Electives			
	Free Electives	12 UOC (2 courses)	36 UOC	
	General Education	12 UOC (2 courses)		

Science Electives are courses taken from within the Faculty of Science or as defined [here](#)

Free Electives are courses from any Faculty at UNSW including Science, but cannot be GEN-branded courses

General Education must be taken from courses that are not considered [Science Electives](#) or from the Faculty of Medicine.

Science students cannot take GENS or GENM courses under any circumstance

Students cannot complete more than 72 UoC of Level 1 courses including any GEN courses and Level 1 courses taken for General Education.

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2022 Commencing Students – Single Degree – Major in Human Anatomy ([ANATE1](#))

Choose from available proposed courses in each year

Year 1			Year 2			Year 3		
BABS1201 Molecules, Cells and Genes (T1, T3)	ANAT1521 Anatomy for Medical Science (T2)	MATH1041 Stats for Life and Social Sciences (T1, T2, T3)	PHSL2101 Physiology 1A (T1)	BIOC2101 Principles of Biochemistry (Advanced) (T2)	BIOC2201 Principles of Molecular Biology (Advanced) (T3)	6 UOC Human Anatomy Prescribed Elective (See Note 1)	6 UOC Human Anatomy Prescribed Elective (See Note 1)	6 UOC Human Anatomy Prescribed Elective (See Note 1)
CHEM1011 Chemistry 1A (T1, T2, T3)	CHEM1021 Chemistry 1B (T1, T2, T3)	6 UOC Free Elective	MICR2011 Microbiology 1 (T1)	ANAT2241 Histology: Basic and Systematic (T2)	PHAR2011 Introductory Pharmacology and Toxicology (T3)	6 UOC Level 3 Prescribed Elective (See Note 2)	6 UOC Science Elective	6 UOC General Education
SCIFF1111 Perspectives in Medical Science (T1)	BIOS1101 (T2) or BABS2202 (T2) or BABS2204 (T3)			PHSL2201 Physiology 1B (T2)	PATH2201 Processes in Disease (T3)	6 UOC Free Elective	6 UOC General Education	

NOTES

This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.

See Program Structure on page 1 for a guide on the terminology and colour codes used in this progression plan.

Note 1: Human Anatomy Prescribed Electives: ANAT3121, ANAT3131, ANAT3141, ANAT3411, SOMS3232

Note 2: Level 3 Prescribed Electives: ANAT2341, BABS3021, BABS3041, BABS3061, BABS3071, BABS3081, BABS3121, BABS3151, BABS3281, BABS3291, BABS3301, BABS3621, BIOC3111, BIOC3261, BIOC3271, BIOC3671, MICR3061, MICR3621, NEUR3101, NEUR3121, NEUR3211, NEUR3221, PATH3205, PATH3206, PATH3207, PATH3209, PHAR3101, PHAR3102, PHAR3202, PHAR3251, PHSL3211, PHSL3221, SOMS3001

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2022 Commencing Students – Single Degree – Major in Molecular Biology ([BIOCH1](#))

Choose from available proposed courses in each year

Year 1			Year 2			Year 3		
BABS1201 Molecules, Cells and Genes (T1, T3)	ANAT1521 Anatomy for Medical Science (T2)	MATH1041 Stats for Life and Social Sciences (T1, T2, T3)	PHSL2101 Physiology 1A (T1)	BIOC2101 Principles of Biochemistry (Advanced) (T2)	BIOC2201 Principles of Molecular Biology (Advanced) (T3)	BABS3121 Molecular Biology of Nucleic Acids (T1)	BIOC3271 Molecular Cell Biology 2 (T2)	6 UOC Molecular Biology Prescribed Elective (See Note 1)
CHEM1011 Chemistry 1A (T1, T2, T3)	CHEM1021 Chemistry 1B (T1, T2, T3)	6 UOC Free Elective	MICR2011 Microbiology 1 (T1)	ANAT2241 Histology: Basic and Systematic (T2)	PHAR2011 Introductory Pharmacology and Toxicology (T3)	6 UOC Level 3 Prescribed Elective (See Note 2)	6 UOC Science Elective	6 UOC General Education
SCIF1111 Perspectives in Medical Science (T1)	BABS2202 Molecular Cell Biology 1 (T2)			PHSL2201 Physiology 1B (T2)	PATH2201 Processes in Disease (T3)	6 UOC Free Elective	6 UOC General Education	

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Note 1: Molecular Biology Prescribed Electives: BABS3021, BABS3281, BIOC3111, BIOC3261

Note 2: Level 3 Prescribed Electives: ANAT2341, ANAT3121, ANAT3131, ANAT3141, ANAT3411, BABS3041, BABS3061, BABS3071, BABS3081, BABS3151, BABS3291, BABS3301, BABS3621, BIOC3671, MICR3061, MICR3621, NEUR3101, NEUR3121, NEUR3211, NEUR3221, PATH3205, PATH3206, PATH3207, PATH3209, PHAR3101, PHAR3102, PHAR3202, PHAR3251, PHSL3211, PHSL3221, SOMS3001

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2022 Commencing Students – Single Degree – Major in Molecular Genetics ([BIOC11](#))

Choose from available proposed courses in each year

Year 1			Year 2			Year 3		
BABS1201 Molecules, Cells and Genes (T1, T3)	ANAT1521 Anatomy for Medical Science (T2)	MATH1041 Stats for Life and Social Sciences (T1, T2, T3)	PHSL2101 Physiology 1A (T1)	BIOC2101 Principles of Biochemistry (Advanced) (T2)	BIOC2201 Principles of Molecular Biology (Advanced) (T3)	BABS3291 Genes, Genomes and Evolution (T1)	BABS3151 Human Molecular Genetics and Disease (T2)	6 UOC Molecular Genetics Prescribed Elective (See Note 1)
CHEM1011 Chemistry 1A (T1, T2, T3)	CHEM1021 Chemistry 1B (T1, T2, T3)	6 UOC Free Elective	MICR2011 Microbiology 1 (T1)	ANAT2241 Histology: Basic and Systematic (T2)	PHAR2011 Introductory Pharmacology and Toxicology (T3)	6 UOC Level 3 Prescribed Elective (See Note 2)	6 UOC Science Elective	6 UOC General Education
SCIF1111 Perspectives in Medical Science (T1)	BABS2204 Genetics (T3)			PHSL2201 Physiology 1B (T2)	PATH2201 Processes in Disease (T3)	6 UOC Free Elective	6 UOC General Education	

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Note 1: Molecular Genetics Prescribed Electives: BABS3021, BABS3281, BINF3010, MICR3621

Note 2: Level 3 Prescribed Electives: ANAT2341, ANAT3121, ANAT3131, ANAT3141, ANAT3411, BABS3041, BABS3061, BABS3071, BABS3081, BABS3121, BABS3301, BABS3621, BIOC3111, BIOC3261, BIOC3271, BIOC3671, MICR3061, NEUR3101, NEUR3121, NEUR3211, NEUR3221, PATH3205, PATH3206, PATH3207, PATH3209, PHAR3101, PHAR3102, PHAR3202, PHAR3251, PHSL3211, PHSL3221, SOMS3001

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2022 Commencing Students – Single Degree – Major in Medical Microbiology ([MICRH1](#))

Choose from available proposed courses in each year

Year 1			Year 2			Year 3		
BABS1201 Molecules, Cells and Genes (T1, T3)	ANAT1521 Anatomy for Medical Science (T2)	MATH1041 Stats for Life and Social Sciences (T1, T2, T3)	PHSL2101 Physiology 1A (T1)	BIOC2101 Principles of Biochemistry (Advanced) (T2)	BIOC2201 Principles of Molecular Biology (Advanced) (T3)	6 UOC Medical Microbiology Prescribed Elective (See Note 1)	6 UOC Medical Microbiology Prescribed Elective (See Note 1)	6 UOC Medical Microbiology Prescribed Elective (See Note 1)
CHEM1011 Chemistry 1A (T1, T2, T3)	CHEM1021 Chemistry 1B (T1, T2, T3)	6 UOC Free Elective	MICR2011 Microbiology 1 (T1)	ANAT2241 Histology: Basic and Systematic (T2)	PHAR2011 Introductory Pharmacology and Toxicology (T3)	6 UOC Level 3 Prescribed Elective (See Note 2)	6 UOC Science Elective	6 UOC General Education
SCIF1111 Perspectives in Medical Science (T1)	BABS2202 Molecular Cell Biology 1 (T2)			PHSL2201 Physiology 1B (T2)	PATH2201 Processes in Disease (T3)	6 UOC Free Elective	6 UOC General Education	

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Note 1: Medical Microbiology Prescribed Electives: BABS3021, BABS3041, BABS3081, MICR3061, MICR3071

Note 2: Level 3 Prescribed Electives: ANAT2341, ANAT3121, ANAT3131, ANAT3141, ANAT3411, BABS3061, BABS3071, BABS3121, BABS3151, BABS3281, BABS3291, BABS3301, BABS3621, BIOC3111, BIOC3261, BIOC3271, BIOC3671, MICR3621, NEUR3101, NEUR3121, NEUR3211, NEUR3221, PATH3205, PATH3206, PATH3207, PATH3209, PHAR3101, PHAR3102, PHAR3202, PHAR3251, PHSL3211, PHSL3221, SOMS3001

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2022 Commencing Students – Single Degree – Major in Medical Immunology ([MICRK1](#))

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	ANAT1521 Anatomy for Medical Science (T2)	MATH1041 Stats for Life and Social Sciences (T1, T2, T3)
CHEM1011 Chemistry 1A (T1, T2, T3)	CHEM1021 Chemistry 1B (T1, T2, T3)	6 UOC Free Elective
SCIF1111 Perspectives in Medical Science (T1)	BABS2202 Molecular Cell Biology 1 (T2)	

Year 2		
PHSL2101 Physiology 1A (T1)	BIOC2101 Principles of Biochemistry (Advanced) (T2)	BIOC2201 Principles of Molecular Biology (Advanced) (T3)
MICR2011 Microbiology 1 (T1)	ANAT2241 Histology: Basic and Systematic (T2)	PHAR2011 Introductory Pharmacology and Toxicology (T3)
	PHSL2201 Physiology 1B (T2)	PATH2201 Processes in Disease (T3)

Year 3		
BABS3041 Immunology (T1)	6 UOC Medical Immunology Prescribed Elective (See Note 1)	PATH3209 Clinical Immunology (T3)
6 UOC Level 3 Prescribed Elective (See Note 2)	6 UOC Science Elective	6 UOC General Education
6 UOC Free Elective	6 UOC General Education	

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	See Program Structure on page 1 for a guide on the terminology and colour codes used in this progression plan.
	Note 1: Medical Immunology Prescribed Electives: MICR3061, PATH3205 Note 2: Level 3 Prescribed Electives: ANAT2341, ANAT3121, ANAT3131, ANAT3141, ANAT3411, BABS3021, BABS3061, BABS3071, BABS3081, BABS3121, BABS3151, BABS3281, BABS3291, BABS3301, BABS3621, BIOC3111, BIOC3261, BIOC3271, BIOC3671, MICR3621, NEUR3101, NEUR3121, NEUR3211, NEUR3221, PATH3206, PATH3207, PHAR3101, PHAR3102, PHAR3202, PHAR3251, PHSL3211, PHSL3221, SOMS3001

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2022 Commencing Students – Single Degree – Major in Neurobiology ([NEURB1](#))

Choose from available proposed courses in each year

Year 1			Year 2			Year 3		
BABS1201 Molecules, Cells and Genes (T1, T3)	ANAT1521 Anatomy for Medical Science (T2)	MATH1041 Stats for Life and Social Sciences (T1, T2, T3)	PHSL2101 Physiology 1A (T1)	BIOC2101 Principles of Biochemistry (Advanced) (T2)	BIOC2201 Principles of Molecular Biology (Advanced) (T3)	6 UOC Neurobiology Prescribed Elective (See Note 1)	6 UOC Neurobiology Prescribed Elective (See Note 1)	6 UOC Neurobiology Prescribed Elective (See Note 1)
CHEM1011 Chemistry 1A (T1, T2, T3)	CHEM1021 Chemistry 1B (T1, T2, T3)	6 UOC Free Elective	MICR2011 Microbiology 1 (T1)	ANAT2241 Histology: Basic and Systematic (T2)	PHAR2011 Introductory Pharmacology and Toxicology (T3)	6 UOC Level 3 Prescribed Elective (See Note 2)	6 UOC Science Elective	6 UOC General Education
SCIFF1111 Perspectives in Medical Science (T1)	BIOS1101 (T2) or BABS2202 (T2) or BABS2204 (T3)			PHSL2201 Physiology 1B (T2)	PATH2201 Processes in Disease (T3)	6 UOC Free Elective	6 UOC General Education	

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Note 1: Neurobiology Prescribed Electives: ANAT3411, NEUR3101, NEUR3121, NEUR3221, PHAR3202

Note 2: Level 3 Prescribed Electives: ANAT2341, ANAT3121, ANAT3131, ANAT3141,, BABS3021, BABS3041, BABS3061, BABS3071, BABS3081, BABS3121, BABS3151, BABS3281, BABS3291, BABS3301, BABS3621, BIOC3111, BIOC3261, BIOC3271, BIOC3671, MICR3061, MICR3621, NEUR3211, PATH3205, PATH3206, PATH3207, PATH3209, PHAR3101, PHAR3102, PHAR3251, PHSL3211, PHSL3221, SOMS3001

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2022 Commencing Students – Single Degree – Major in Human Pathology ([PATHC1](#))

Choose from available proposed courses in each year

Year 1			Year 2			Year 3		
BABS1201 Molecules, Cells and Genes (T1, T3)	ANAT1521 Anatomy for Medical Science (T2)	MATH1041 Stats for Life and Social Sciences (T1, T2, T3)	PHSL2101 Physiology 1A (T1)	BIOC2101 Principles of Biochemistry (Advanced) (T2)	BIOC2201 Principles of Molecular Biology (Advanced) (T3)	6 UOC Human Pathology Prescribed Elective (See Note 1)	6 UOC Human Pathology Prescribed Elective (See Note 1)	6 UOC Human Pathology Prescribed Elective (See Note 1)
CHEM1011 Chemistry 1A (T1, T2, T3)	CHEM1021 Chemistry 1B (T1, T2, T3)	6 UOC Free Elective	MICR2011 Microbiology 1 (T1)	ANAT2241 Histology: Basic and Systematic (T2)	PHAR2011 Introductory Pharmacology and Toxicology (T3)	6 UOC Level 3 Prescribed Elective (See Note 2)	6 UOC Science Elective	6 UOC General Education
SCIFF1111 Perspectives in Medical Science (T1)	BIOS1101 (T2) or BABS2202 (T2) or BABS2204 (T3)			PHSL2201 Physiology 1B (T2)	PATH2201 Processes in Disease (T3)	6 UOC Free Elective	6 UOC General Education	

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Note 1: Human Pathology Prescribed Electives - Students must complete at least 6 UOC from list 1 and 6 UOC from list 2

- List 1: PATH3205, PATH3206
- List 2: PATH3207, PATH3209, PATH3210, SOMS3232

Note 2: Level 3 Prescribed Electives: ANAT2341, ANAT3121, ANAT3131, ANAT3141, ANAT3411, BABS3021, BABS3041, BABS3061, BABS3071, BABS3081, BABS3121, BABS3151, BABS3281, BABS3291, BABS3301, BABS3621, BIOC3111, BIOC3261, BIOC3271, BIOC3671, MICR3061, MICR3621, NEUR3101, NEUR3121, NEUR3211, NEUR3221, PHAR3101, PHAR3102, PHAR3202, PHAR3251, PHSL3211, PHSL3221, SOMS3001

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2022 Commencing Students – Single Degree – Major in Medical Pharmacology ([PHARC1](#))
Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	ANAT1521 Anatomy for Medical Science (T2)	MATH1041 Stats for Life and Social Sciences (T1, T2, T3)
CHEM1011 Chemistry 1A (T1, T2, T3)	CHEM1021 Chemistry 1B (T1, T2, T3)	6 UOC Free Elective
SCIFF1111 Perspectives in Medical Science (T1)	BIOS1101 (T2) or BABS2202 (T2) or BABS2204 (T3)	

Year 2		
PHSL2101 Physiology 1A (T1)	BIOC2101 Principles of Biochemistry (Advanced) (T2)	BIOC2201 Principles of Molecular Biology (Advanced) (T3)
MICR2011 Microbiology 1 (T1)	ANAT2241 Histology: Basic and Systematic (T2)	PHAR2011 Introductory Pharmacology and Toxicology (T3)
	PHSL2201 Physiology 1B (T2)	PATH2201 Processes in Disease (T3)

Year 3		
6 UOC Medical Pharmacology Prescribed Elective (See Note 1)	6 UOC Medical Pharmacology Prescribed Elective (See Note 1)	6 UOC Medical Pharmacology Prescribed Elective (See Note 1)
6 UOC Level 3 Prescribed Elective (See Note 2)	6 UOC Science Elective	6 UOC General Education
6 UOC Free Elective	6 UOC General Education	

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	See Program Structure on page 1 for a guide on the terminology and colour codes used in this progression plan.
	Note 1: Medical Pharmacology Prescribed Electives: PHAR3101, PHAR3102, PHAR3202, PHAR3251 Note 2: Level 3 Prescribed Electives: ANAT2341, ANAT3121, ANAT3131, ANAT3141, ANAT3411, BABS3021, BABS3041, BABS3061, BABS3071, BABS3081, BABS3121, BABS3151, BABS3281, BABS3291, BABS3301, BABS3621, BIOC3111, BIOC3261, BIOC3271, BIOC3671, MICR3061, MICR3621, NEUR3101, NEUR3121, NEUR3211, NEUR3221, PATH3205, PATH3206, PATH3207, PATH3209, PHSL3211, PHSL3221, SOMS3001

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2022 Commencing Students – Single Degree – Major in Medical Physiology ([PHSLC1](#))

Choose from available proposed courses in each year

Year 1			Year 2			Year 3		
BABS1201 Molecules, Cells and Genes (T1, T3)	ANAT1521 Anatomy for Medical Science (T2)	MATH1041 Stats for Life and Social Sciences (T1, T2, T3)	PHSL2101 Physiology 1A (T1)	BIOC2101 Principles of Biochemistry (Advanced) (T2)	BIOC2201 Principles of Molecular Biology (Advanced) (T3)	6 UOC Medical Physiology Prescribed Elective (See Note 1)	6 UOC Medical Physiology Prescribed Elective (See Note 1)	6 UOC Medical Physiology Prescribed Elective (See Note 1)
CHEM1011 Chemistry 1A (T1, T2, T3)	CHEM1021 Chemistry 1B (T1, T2, T3)	6 UOC Free Elective	MICR2011 Microbiology 1 (T1)	ANAT2241 Histology: Basic and Systematic (T2)	PHAR2011 Introductory Pharmacology and Toxicology (T3)	6 UOC Level 3 Prescribed Elective (See Note 2)	6 UOC Science Elective	6 UOC General Education
SCIF1111 Perspectives in Medical Science (T1)	BIOS1101 (T2) or BABS2202 (T2) or BABS2204 (T3)			PHSL2201 Physiology 1B (T2)	PATH2201 Processes in Disease (T3)	6 UOC Free Elective	6 UOC General Education	

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Note 1: Medical Physiology Prescribed Electives: NEUR3101, NEUR3121, NEUR3221, PHSL3211, PHSL3221

Note 2: Level 3 Prescribed Electives: ANAT2341, ANAT3121, ANAT3131, ANAT3141, ANAT3411, BABS3021, BABS3041, BABS3061, BABS3071, BABS3081, BABS3121, BABS3151, BABS3281, BABS3291, BABS3301, BABS3621, BIOC3111, BIOC3261, BIOC3271, BIOC3671, MICR3061, MICR3621, NEUR3211, PATH3205, PATH3206, PATH3207, PATH3209, PHAR3101, PHAR3102, PHAR3202, PHAR3251, SOMS3001

Science

Bachelor of Medical Science (3991)

2022 Commencing Students – Single Degree – No Major ([3991](#))

Choose from available proposed courses in each year



Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	ANAT1521 Anatomy for Medical Science (T2)	MATH1041 Stats for Life and Social Sciences (T1, T2, T3)
CHEM1011 Chemistry 1A (T1, T2, T3)	CHEM1021 Chemistry 1B (T1, T2, T3)	6 UOC Free Elective
SCIF1111 Perspectives in Medical Science (T1)	BIOS1101 (T2) or BABS2202 (T2) or BABS2204 (T3)	

Year 2		
PHSL2101 Physiology 1A (T1)	BIOC2101 Principles of Biochemistry (Advanced) (T2)	BIOC2201 Principles of Molecular Biology (Advanced) (T3)
MICR2011 Microbiology 1 (T1)	ANAT2241 Histology: Basic and Systematic (T2)	PHAR2011 Introductory Pharmacology and Toxicology (T3)
	PHSL2201 Physiology 1B (T2)	PATH2201 Processes in Disease (T3)

Year 3		
6 UOC Level 3 Prescribed Elective (See Note 1)	6 UOC Level 3 Prescribed Elective (See Note 1)	6 UOC Level 3 Prescribed Elective (See Note 1)
6 UOC Level 3 Prescribed Elective (See Note 1)	6 UOC Science Elective	6 UOC General Education
6 UOC Free Elective	6 UOC General Education	

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	Note 1: Level 3 Prescribed Electives: ANAT2341, ANAT3121, ANAT3131, ANAT3141, ANAT3411, BABS3021, BABS3041, BABS3061, BABS3071, BABS3081, BABS3121, BABS3151, BABS3281, BABS3291, BABS3301, BABS3621, BIOC3111, BIOC3261, BIOC3271, BIOC3671, MICR3061, MICR3621, NEUR3101, NEUR3121, NEUR3211, NEUR3221, PATH3205, PATH3206, PATH3207, PATH3209, PHAR3101, PHAR3102, PHAR3202, PHAR3251, PHSL3211, PHSL3221, SOMS3001