	Year 1		Year 2		Year 3		Year 4		Year 5
Term 1	**PHYS1111** Fundamentals of Physics <u>OR</u> **PHYS1121** Physics 1A <u>OR</u> **PHYS1131** Higher Physics 1A **DESN1000** Engineering Design and Innovation **MATH1131** Mathematics 1A <u>OR</u> **MATH1141** Higher Mathematics 1A	Term 1	**COMP1531** Software Engineering Fundamentals **COMP2521** Data Structures and Algorithms **CHEM1011** Chemistry 1A <u>OR</u> **CHEM1031** (Higher) Chemistry 1A	Term 1	**COMP3121** Algorithms and Programming Techniques **BABS3121** Molecular Biology of Nucleic Acids **PHSL2121** Principles of Physiology A	Term 1	**COMP3311** Database Systems **Discipline Elective**	Term 1	**BIOM4951** Research Thesis A (4 UoC) **BIOM9410** Regulatory Requirements of Biomedical Technology **Biomedical Engineering Course**
Term 2	**MATH1231** Mathematics 1B <u>OR</u> **MATH1241** Higher Mathematics 1B **COMP1511** Programming Fundamentals **MATH1081** Discrete Mathematics	Term 2	**DESN2000** Engineering Design & Professional Practice **COMP2041** Software Construction: Techniques and Tools **COMP2511** Object-Oriented Design and Programming	Term 2	**MATH2801** Theory of Statistics <u>OR</u> **MATH2901** Higher Theory of Statistics **BINF3010** Applied Bioinformatics **BABS2202** Molecular Cell Biology 1 <u>OR</u> **BIOC2101** Principles of Biochemistry (Advanced)	Term 2	**Biomedical Engineering Course** **Biomedical Engineering Course** **Biomedical Engineering Course**	Term 2	**BIOM4952** Research Thesis B (4 UoC) **BIOM9420** Clinical Laboratory Science **Biomedical Engineering Course**
Term 3	**COMP1521** Computer Systems Fundamentals **BABS1201** Molecules, Cells and Genes	Term 3	**BINF2010** Introduction to Bioinformatics **BIOC2201** Principles of Molecular Biology (Advanced)	Term 3	**BINF3020** Computational Bioinformatics **Free Elective**	Term 3	**COMP4920** Professional Issues and Ethics in Information Technology **Biomedical Engineering Course** **Biomedical Engineering Course**	Term 3	**BIOM4953** Research Thesis C (4 UoC) **Discipline Elective** ***Additional Elective**

NOTES

Compulsory Training Component: There is a program requirement of 60 days approved Industrial Training ENGG4999. *BIOM1010 Engineering in Medicine and Biology is a recommended first year elective

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

Engineering
Engineering (Honours) / Biomedical Engineering (3768)
Bioinformatics Engineering (BINFAH)
T2 Entry 2025 Sample Plan

UNSW SYDNEY

	Year 1		Year 2		Year 3		Year 4		Year 5
Term 2	COMP1511 Programming Fundamentals MATH1131 Mathematics 1A PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A	**Term 2**	CHEM1011 Chemistry 1A COMP2041 Software Construction: Techniques & Tools COMP1521 Computer Systems Fundamentals	**Term 2**	DESN2000 Engineering Design & Professional Practice MATH2801 Theory of Statistics OR MATH2901 Higher Theory of Statistics BINF3010 Applied Bioinformatics	**Term 2**	Discipline Elective Course Discipline Elective Course Biomedical Engineering Course	**Term 2**	BIOM4951 Research Thesis A (4 UoC) BIOM9420 Clinical Laboratory Science Biomedical Engineering Course
Term 3	BABS1201 Molecules, Cells and Genes MATH1231 Mathematics 1B DESN1000 Engineering Design and Innovation	**Term 3**	BINF2010 Introduction to Bioinformatics BIOC2201 Principles of Molecular Biology (Advanced) COMP2521 Data Structures and Algorithms	**Term 3**	BABS2202 Molecular Cell Biology 1 OR BIOC2101 Principles of Biochemistry (Advanced) BINF3020 Computational Bioinformatics	**Term 3**	COMP4920 Professional Issues and Ethics in Information Technology Biomedical Engineering Course	**Term 3**	BIOM4952 Research Thesis B (4 UoC) Biomedical Engineering Course Biomedical Engineering Course
Term 1	MATH1081 Discrete Mathematics COMP1531 Software Engineering Fundamentals	**Term 1**	COMP2511 Object-Oriented Design and Programming PHSL2121 Principles of Physiology A	**Term 1**	BABS3121 Molecular Biology of Nucleic Acids COMP3311 Database Systems COMP3121 Algorithms and Programming Techniques	**Term 1**	BIOM9410 Regulatory Requirements of Biomedical Technology Biomedical Engineering Course Biomedical Engineering Course	**Term 1**	BIOM4953 Research Thesis C (4 UoC) Free Elective *Additional Elective

NOTES

Compulsory Training Component: There is a program requirement of 60 days approved Industrial Training ENGG4999. *BIOM1010 Engineering in Medicine and Biology is a recommended first year elective

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

	Year 1		Year 2		Year 3		Year 4		Year 5
Term 3	COMP1511 Programming Fundamentals	Term 3	BIOC2201 Principles of Molecular Biology (Advanced)	Term 3	COMP2511 Object-Oriented Design and Programming	Term 3	COMP4920 Professional Issues and Ethics in Information Technology	Term 3	BIOM4951 Research Thesis A (4 UoC)
	DESN1000 Engineering Design and Innovation		MATH1081 Discrete Mathematics		BINF3020 Computational Bioinformatics		Discipline Elective Course		Biomedical Engineering Course
	BABS1201 Molecules, Cells and Genes		BINF2010 Introduction to Bioinformatics		BABS2204 Genetics OR BABS2264 Genetics (Advanced Level)		Biomedical Engineering Course		Biomedical Engineering Course
Term 1	MATH1131 Mathematics 1A OR MATH1141 Higher Mathematics 1A	Term 1	COMP2521 Data Structures and Algorithms	Term 1	BABS3121 Molecular Biology of Nucleic Acids	Term 1	Biomedical Engineering Course	Term 1	BIOM4952 Research Thesis B (4 UoC)
	COMP1531 Software Engineering Fundamentals		PHSL2121 Principles of Physiology A		COMP3311 Database Systems		Biomedical Engineering Course		BIOM9410 Regulatory Requirements of Biomedical Technology
	PHYS1111 Fundamentals of Physics OR PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A								Biomedical Engineering Course
Term 2	MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B	Term 2	COMP2041 Software Construction: Techniques and Tools	Term 2	COMP3121 Algorithms and Programming Techniques	Term 2	Biomedical Engineering Course	Term 2	BIOM4953 Research Thesis C (4 UoC)
	COMP1521 Computer Systems Fundamentals		DESN2000 Engineering Design & Professional Practice		MATH2801 Theory of Statistics OR MATH2901 Higher Theory of Statistics		Free Elective Course		BIOM9420 Clinical Laboratory Science
	CHEM1011 Chemistry 1A		BINF3010 Applied Bioinformatics		Discipline Elective Course				*Additional Elective

NOTES	Compulsory Training Component: There is a program requirement of 60 days approved Industrial Training ENGG4999. *BIOM1010 Engineering in Medicine and Biology is a recommended first year elective
	This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.