Engineering

Engineering (Honours) / Biomedical Engineering (3768)

Bioinformatics Engineering (BINFAH)

T1 Entry 2025 Sample Plan

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

Engineering
Engineering (Honours) / Biomedical Engineering (3768)
Bioinformatics Engineering (BINFAH)
T3 Entry 2025 Sample Plan

UNSW SYDNEY

	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)
	PHYS1111 Fundamentals of Physics OR PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A		COMP1531 Software Engineering Fundamentals		COMP3311 Database Systems		Biomedical Engineering Course		BIOM9410 Regulatory Requirements of Biomedical Technology
					PHSL2121 Principles of Physiology A		Discipline Elective Course		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						*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 elective
	This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.