Engineering
Bachelor of Engineering (Honours) (3707)
Bioinformatics Engineering (BINFAH)
T1 Entry 2024 Sample Plan

UNSW SYDNEY

	Year 1		Year 2		Year 3		Year 4
Term 1	**BABS1201** Molecules, Cells and Genes	**Term 1**	**COMP1531** Software Engineering Fundamentals	**Term 1**	**COMP3121** Algorithms and Programming Techniques	**Term 1**	**COMP4951** Research Thesis A (4 UoC)
	DESN1000 Engineering Design and Innovation		**COMP2521** Data Structures and Algorithms		**BABS3121** Molecular Biology of Nucleic Acids		**COMP3311** Database Systems
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A		**CHEM1011** Chemistry 1A OR **CHEM1031** (Higher) Chemistry 1A		**Free Elective Course**		**General Education Course**
Term 2	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B	**Term 2**	**DESN2000** Engineering Design & Professional Practice	**Term 2**	**MATH2801** Theory of Statistics OR **MATH2901** Higher Theory of Statistics	**Term 2**	**COMP4952** Research Thesis B (4 UoC)
	COMP1511 Programming Fundamentals		**COMP2041** Software Construction: Techniques and Tools		**BINF3010** Applied Bioinformatics		**Discipline Elective Course**
	MATH1081 Discrete Mathematics		**COMP2511** Object-Oriented Design and Programming		**BABS2202** Molecular Cell Biology 1 OR **BIOC2101** Principles of Biochemistry (Advanced)		**Free Elective Course**
Term 3	**COMP1521** Computer Systems Fundamentals	**Term 3**	**BINF2010** Introduction to Bioinformatics	**Term 3**	**BINF3020** Computational Bioinformatics	**Term 3**	**COMP4953** Research Thesis C (4 UoC)
	PHYS1111 Fundamentals of Physics OR **PHYS1121** Physics 1A OR **PHYS1131** Higher Physics 1A		**BIOC2201** Principles of Molecular Biology (Advanced)		**Discipline Elective Course**		**COMP4920** Professional Issues and Ethics in Information Technology
							General Education Course

NOTES	Compulsory Training Component: There is a program requirement of 60 days approved Industrial Training ENGG4999
	This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.

Information is correct as of 01.12.2023 and is based on proposed prerequisites and course availability. This is to be used as a guide only and does not replace individual advice. Refer to the Handbook and Class Timetable for the relevant term to check availability for these courses. Contact The Nucleus: Student Hub for further assistance. CRICOS Provider Code 00098G

Engineering
Bachelor of Engineering (Honours) (3707)
Bioinformatics Engineering (BINFAH)
T2 Entry 2024 Sample Plan

UNSW SYDNEY

	Year 1		Year 2		Year 3		Year 4
Term 2	**COMP1511** Programming Fundamentals	Term 2	**CHEM1011** Chemistry 1A	Term 2	**DESN2000** Engineering Design & Professional Practice	Term 2	**COMP4951** Research Thesis A (4 UoC)
	MATH1131 Mathematics 1A		**COMP2041** Software Construction: Techniques & Tools		**MATH2801** Theory of Statistics OR **MATH2901** Higher Theory of Statistics		**Free Elective Course**
			COMP1521 Computer Systems Fundamentals		**BINF3010** Applied Bioinformatics		**Discipline Elective Course**
Term 3	**BABS1201** Molecules, Cells and Genes	Term 3	**PHYS1111** Fundamentals of Physics OR **PHYS1121** Physics 1A OR **PHYS1131** Higher Physics 1A	Term 3	**BABS2202** Molecular Cell Biology 1 OR **BIOC2101** Principles of Biochemistry (Advanced)	Term 3	**COMP4952** Research Thesis B (4 UoC)
	MATH1231 Mathematics 1B		**BINF2010** Introduction to Bioinformatics		**BINF3020** Computational Bioinformatics		**General Education Course**
	DESN1000 Engineering Design and Innovation		**BIOC2201** Principles of Molecular Biology (Advanced)		**Discipline Elective Course**		**COMP4920** Professional Issues and Ethics in Information Technology
Term 1	**COMP2521** Data Structures and Algorithms	Term 1	**COMP2511** Object-Oriented Design and Programming	Term 1	**BABS3121** Molecular Biology of Nucleic Acids	Term 1	**COMP4953** Research Thesis C (4 UoC)
	MATH1081 Discrete Mathematics		**COMP3121** Algorithms and Programming Techniques		**COMP3311** Database Systems		**General Education Course**
	COMP1531 Software Engineering Fundamentals						**Free Elective Course**

NOTES

Compulsory Training Component: There is a program requirement of 60 days approved Industrial Training ENGG4999

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Engineering
Bachelor of Engineering (Honours) (3707)
Bioinformatics Engineering (BINFAH)
T3 Entry 2024 Sample Plan

	Year 1		Year 2		Year 3		Year 4
Term 3	**COMP1511** Programming Fundamentals	Term 3	**BIOC2201** Principles of Molecular Biology (Advanced)	Term 3	**COMP2511** Object-Oriented Design and Programming	Term 3	**COMP4951** Research Thesis A (4 UoC)
	DESN1000 Engineering Design and Innovation		**MATH1081** Discrete Mathematics		**BINF3020** Computational Bioinformatics		**Discipline Elective Course**
	BABS1201 Molecules, Cells and Genes		**BINF2010** Introduction to Bioinformatics		**BABS2204 OR BABS2264**		**COMP4920** Professional Issues and Ethics in Information Technology
Term 1	**MATH1131** Mathematics 1A OR **MATH1141** Higher Mathematics 1A	Term 1	**PHYS1111** Fundamentals of Physics OR **PHYS1121** Physics 1A OR **PHYS1131** Higher Physics 1A	Term 1	**BABS3121** Molecular Biology of Nucleic Acids	Term 1	**COMP4952** Research Thesis B (4 UoC)
	COMP1531 Software Engineering Fundamentals		**COMP2521** Data Structures and Algorithms		**COMP3311** Database Systems		**General Education Course**
	CHEM1011 Chemistry 1A OR **CHEM1031** Higher Chemistry 1A				**Free Elective Course**		**Discipline Elective 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	**COMP4953** Research Thesis C (4 UoC)
	COMP1521 Computer Systems Fundamentals		**DESN2000** Engineering Design & Professional Practice		**MATH2801** Theory of Statistics OR **MATH2901** Higher Theory of Statistics		**General Education Course**
			BINF3010 Applied Bioinformatics				**Free Elective Course**

NOTES

Compulsory Training Component: There is a program requirement of 60 days approved Industrial Training ENGG4999

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