Engineering

Engineering (Honours) / Biomedical Engineering (3768)

Software Engineering (SENGAH)

T1 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4	Year 5
Term 1	**DESN1000** Engineering Design and Innovation	**SENG2021** Requirements and Design Workshop	**COMP3311** Database Systems	**COMP4920** Professional Issues and Ethics in Information Technology	**BIOM4951** Research Thesis A (4 UoC)
	MATH1081 Discrete Mathematics	**COMP2521** Data Structures and Algorithms	**SENG3011** Software Engineering Workshop 3	**Discipline Elective Course**	**BIOM9410** Regulatory Requirements of Biomedical Technology
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A		**PHSL2121** Principles of Physiology A	**Discipline Elective Course**	**Biomedical Engineering Course**
Term 2	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B	**COMP2041** Software Construction: Techniques and Tools	**COMP3142** Software Testing and Quality Assurance	**Biomedical Engineering Course**	**BIOM4952** Research Thesis B (4 UoC)
	COMP1511 Programming Fundamentals	**MATH2400** Finite Mathematics (3 UoC) **& MATH2859** Probability, Statistics & Information (3 UoC)	**COMP3331** Computer Networks & Applications	**Biomedical Engineering Course**	**BIOM9420** Clinical Laboratory Science
		DESN2000 Engineering Design and Professional Practice	**Free Elective***		**Biomedical Engineering Course**
Term 3	**COMP1521** Computer Systems Fundamentals	**COMP2511** Object-Oriented Design & Programming	**Discipline Elective**	**Biomedical Engineering Course**	**BIOM4953** Research Thesis C (4 UoC)
	COMP1531 Software Engineering Fundamentals	**SENG2011** Workshop on Reasoning about Programs	**Discipline Elective**	**Biomedical Engineering Course**	**Biomedical Engineering Course**
	Discipline Elective	**Discipline Elective**		**Free Elective**	**Free 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.

Engineering

Engineering (Honours) / Biomedical Engineering (3768)

Software Engineering (SENGAH)

T2 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4	Year 5
Term 2	**COMP1511** Programming Fundamentals	**COMP2041** Software Construction: Techniques and Tools	**COMP3142** Software Testing and Quality Assurance	**Discipline Elective**	**BIOM4951** Research Thesis A (4 UoC)
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A	**MATH2400** Finite Mathematics & **MATH2859** Probability, Statistics & Information	**COMP3311** Database Systems	**Discipline Elective**	**BIOM9420** Clinical Laboratory Science
		DESN2000 Engineering Design and Professional Practice	**Free Elective***	**Biomedical Engineering Course**	**Biomedical Engineering Course**
Term 3	**COMP1521** Computer Systems Fundamentals	**SENG2011** Workshop on Reasoning about Programs	**COMP3331** Computer Networks & Applications	**COMP4920** Professional Issues and Ethics in Information Technology	**BIOM4952** Research Thesis B (4 UoC)
	MATH1081 Discrete Mathematics	**COMP2511** Object-Oriented Design & Programming	**Discipline Elective**	**Biomedical Engineering Course**	**Biomedical Engineering Course**
	COMP1531 Software Engineering Fundamentals				**Biomedical Engineering Course** OR **Free Elective**
Term 1	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B	**SENG2021** Requirements and Design Workshop	**SENG3011** Software Engineering Workshop 3	**BIOM9410** Regulatory Requirements of Biomedical Technology	**BIOM4953** Research Thesis C (4 UoC)
	COMP2521 Data Structures and Algorithms	**PHSL2121** Principles of Physiology A	**Discipline Elective**	**Biomedical Engineering Course**	**Discipline Elective**
	DESN1000 Engineering Design and Innovation	**Free Elective**	**Discipline Elective**	**Biomedical Engineering Course**	**Free Elective**

NOTES

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

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Engineering

Engineering (Honours) / Biomedical Engineering (3768)

Software Engineering (SENGAH)

T3 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4	Year 5
Term 3	**COMP1511** Programming Fundamentals	**COMP2511** Object-Oriented Design & Programming	**COMP3331** Computer Networks & Applications	**COMP4920** Professional Issues and Ethics in Information Technology	**BIOM4951** Research Thesis A (4 UoC)
	DESN1000 Engineering Design and Innovation	**SENG2011** Workshop on Reasoning about Programs	**Discipline Elective**	**Discipline Elective**	**Biomedical Engineering Course**
		Free Elective	**Discipline Elective**	**Discipline Elective**	**Biomedical Engineering Course**
Term 1	**COMP1521** Computer Systems Fundamentals	**SENG2021** Requirements and Design Workshop	**SENG3011** Software Engineering Workshop 3	**Biomedical Engineering Course**	**BIOM4952** Research Thesis B (4 UoC)
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A	**PHSL2121** Principles of Physiology A	**COMP3311** Database Systems	**Biomedical Engineering Course**	**BIOM9410** Regulatory Requirements of Biomedical Technology
	COMP2521 Data Structures and Algorithms			**Free Elective**	**Free Elective**
Term 2	**COMP1531** Software Engineering Fundamentals	**COMP2041** Software Construction: Techniques and Tools	**COMP3142** Software Testing and Quality Assurance	**Biomedical Engineering Course**	**BIOM4953** Research Thesis C (4 UoC)
	MATH1231 Mathematics 1B OR **MATH1241** Higher Mathematics 1B	**MATH2400** Finite Mathematics (3 UoC) & **MATH2859** Probability, Statistics & Information (3 UoC)	**Free Elective***	**Discipline Elective**	**BIOM9420** Clinical Laboratory Science
	MATH1081 Discrete Mathematics	**DESN2000** Engineering Design and Professional Practice	**Discipline Elective**		**Biomedical Engineering Course**

NOTES

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

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