Engineering

Bachelor of Engineering (Honours) / Science (3767)

Software Engineering (SENGAH) / Statistics (MATHT1)

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	**Science Elective**	**COMP3311** Database Systems	**COMP4951** Research Thesis A (4 UoC)
	MATH1081 Discrete Mathematics	**COMP2521** Data Structures and Algorithms	**Discipline Elective Course**	**SENG3011** Software Engineering Workshop 3	**SENG4920** Ethics & Management
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A	**MATH2011** Several Variable Calculus OR **MATH2111** Higher Several Variable Calculus		**MATH3801** Probability & Stochastic Processes OR **MATH3901** Higher Probability & Stochastic Processes	**MATH3811** Statistical Inference OR **MATH3911** Higher Statistical Inference
Term 2	**SCIF0000** (0 UoC) Introduction to University	**COMP2041** Software Construction: Techniques and Tools	**MATH2801** Theory of Statistics OR **MATH2901** Higher Theory of Statistics	**COMP3142** Software Testing and Quality Assurance	**COMP4952** Research Thesis B (4 UoC)
	MATH1231 Mathematics 1B OR **MATH1241** Higher Mathematics 1B	**MATH2501** Linear Algebra OR **MATH2601** Higher Linear Algebra	**Employability Experience Course**	**COMP3331** Computer Networks & Applications	***MATH3831** Stats in Social & Market Resch OR **MATH3841** Stats of Dependent Data
	COMP1511 Programming Fundamentals	**DESN2000** Engineering Design and Professional Practice	**Discipline Elective Course**	**MATH3821** Stat Modelling & Computing	**Discipline Elective Course**
	Science Elective				
Term 3	**COMP1521** Computer Systems Fundamentals	**COMP2511** Object-Oriented Design & Programming	**MATH2831** Linear Models OR **MATH2931** Higher Linear Models	**Employability Experience Course**	**COMP4953** Research Thesis C (4 UoC)
	COMP1531 Software Engineering Fundamentals	**SENG2011** Workshop on Reasoning about Programs	**MATH3411** Information, Codes and Ciphers	**Level 4+ Discipline Elective Course**	**SCIF3010** (0 UoC) Graduation Portfolio
			SCIF1000 Skills in Science		**Level 4+ Discipline Elective Course**
					Discipline Elective Course

NOTES

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

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

*Students can take MATH3831/MATH3841/MATH3856/MATH3871

Engineering

Bachelor of Engineering (Honours) / Science (3767)

Software Engineering (SENGAH) / Statistics (MATHT1)

T2 Entry 2025 Sample Plan

UNSW SYDNEY

Year 1	
Term 2	**COMP1511** Programming Fundamentals
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A
	SCIF0000 (0 UoC) Introduction to University
Term 3	**COMP1521** Computer Systems Fundamentals
	MATH1081 Discrete Mathematics
	COMP1531 Software Engineering Fundamentals
Term 1	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B
	COMP2521 Data Structures and Algorithms
	DESN1000 Engineering Design and Innovation

Year 2	
Term 2	**COMP2041** Software Construction: Techniques and Tools
	DESN2000 Engineering Design and Professional Practice
	Science Elective
Term 3	**SENG2011** Workshop on Reasoning about Programs
	COMP2511 Object-Oriented Design & Programming
	SCIF1000 Skills in Science
Term 1	**SENG2021** Requirements and Design Workshop
	MATH2011 Several Variable Calculus OR **MATH2111** Higher Several Variable Calculus

Year 3	
Term 2	**COMP3142** Software Testing and Quality Assurance
	MATH2801 Theory of Statistics OR **MATH2901** Higher Theory of Statistics
	MATH2501 Linear Algebra OR **MATH2601** Higher Linear Algebra
Term 3	**MATH2831** Linear Models OR **MATH2931** Higher Linear Models
	Discipline Elective Course
	Employability Experience Course
Term 1	**SENG3011** Software Engineering Workshop 3
	Discipline Elective Course

Year 4	
Term 2	**MATH3821** Stat Modelling & Computing
	COMP3311 Database Systems
	Employability Experience Course
Term 3	**COMP3331** Computer Networks & Applications
	MATH3411 Information, Codes and Ciphers
	Science Elective
Term 1	**MATH3801** Probability & Stochastic Processes OR **MATH3901** Higher Probability & Stochastic Processes
	MATH3811 Statistical Inference OR **MATH3911** Higher Statistical Inference

Year 5	
Term 2	**COMP4951** Research Thesis A (4 UoC)
	***MATH3831** Stats in Social & Market Resch OR **MATH3841** Stats of Dependent Data
	L4+ Discipline Elective Course
Term 3	**COMP4952** Research Thesis B (4 UoC)
	SENG4920 Ethics & Management
	Discipline Elective Course
Term 1	**COMP4953** Research Thesis C (4 UoC)
	Discipline Elective Course
	SCIF3010 (0 UoC) Graduation Portfolio
	L4+ Discipline Elective Course

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Engineering

Bachelor of Engineering (Honours) / Science (3767)

Software Engineering (SENGAH) / Statistics (MATHT1)

T3 Entry 2025 Sample Plan

UNSW SYDNEY

Year 1	
Term 3	**COMP1511** Programming Fundamentals
	DESN1000 Engineering Design and Innovation
	SCIF0000 (0 UoC) Introduction to University
Term 1	**COMP1521** Computer Systems Fundamentals
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A
	COMP2521 Data Structures and Algorithms
Term 2	**COMP1531** Software Engineering Fundamentals
	MATH1231 Mathematics 1B OR **MATH1241** Higher Mathematics 1B
	MATH1081 Discrete Mathematics

Year 2	
Term 3	**COMP2511** Object-Oriented Design & Programming
	SENG2011 Workshop on Reasoning about Programs
	Employability Experience Course
Term 1	**SENG2021** Requirements and Design Workshop
	MATH2011 Several Variable Calculus OR **MATH2111** Higher Several Variable Calculus
Term 2	**COMP2041** Software Construction: Techniques and Tools
	MATH2501 Linear Algebra OR **MATH2601** Higher Linear Algebra
	DESN2000 Engineering Design and Professional Practice

Year 3	
Term 3	**COMP3331** Computer Networks & Applications
	Discipline Elective Course
	SCIF1000 Skills in Science
Term 1	**SENG3011** Software Engineering Workshop 3
	COMP3311 Database Systems
Term 2	**COMP3142** Software Testing and Quality Assurance
	Discipline Elective Course
	MATH2801 Theory of Statistics OR **MATH2901** Higher Theory of Statistics

Year 4	
Term 3	**MATH2831** Linear Models OR **MATH2931** Higher Linear Models
	MATH3411 Information, Codes and Ciphers
	Employability Experience Course
Term 1	**MATH3801** Probability & Stochastic Processes OR **MATH3901** Higher Probability & Stochastic Processes
	MATH3811 Statistical Inference OR **MATH3911** Higher Statistical Inference
	Science Elective
Term 2	**MATH3821** Stat Modelling & Computing
	***MATH3831** Stats in Social & Market Resch OR **MATH3841** Stats of Dependent Data

Year 5	
Term 3	**COMP4951** Research Thesis A (4 UoC)
	SENG4920 Ethics & Management
	Science Elective
Term 1	**COMP4952** Research Thesis B (4 UoC)
	Discipline Elective Course
	L4+ Discipline Elective Course
Term 2	**COMP4953** Research Thesis C (4 UoC)
	Discipline Elective Course
	SCIF3010 (0 UoC) Graduation Portfolio
	L4+ Discipline Elective Course

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