Bachelor of Science / Computer Science (3789)
Computer Science (COMPA1) / Mathematics (MATHM1)
T1 Entry 2025 Sample Plan

UNSW SYDNEY

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

	Year 2
Term 1	**COMP2511** Object-Oriented Design & Programming
	Employability Experience Course
	Computing Elective
Term 2	**MATH2501** Linear Algebra **OR** **MATH2601** Higher Linear Algebra
	MATH2801 Theory of Statistics **OR** **MATH2901** Higher Theory of Statistics
Term 3	**MATH2521** Complex Analysis **OR** **MATH2621** Higher Complex Analysis
	Computing Elective
	SCIF1000 Skills in Science

	Year 3
Term 1	**Science Elective**
	Lvl 3 Maths Prescribed Elective
	Lvl 3 Non-Statistics Prescribed Elective
Term 2	**MATH2011** Several Variable Calculus **OR** **MATH2111** **Higher** Several Variable Calculus
	MATH2121 Theory and Applications of Differential Equations **OR** **MATH2221** Higher Theory and Applications of Differential Equations
Term 3	**Science Elective**
	Science Elective
	Computing Elective

	Year 4
Term 1	**COMP3121** Algorithm Design and Analysis **OR** **COMP3821** Extended Algorithm Design and Analysis
	Computing Elective
	Lvl 3 Non-Statistics Prescribed Elective
Term 2	**Employability Experience Course**
	Science Elective
Term 3	**COMP3900** Computer Science Project
	COMP4920 Professional Issues and Ethics in Information Technology
	Computing Elective
	SCIF3010 (0 UoC) Graduation Portfolio

NOTES

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

All Level 1 and Level 2 courses are offered in each standard term and electives can be taken in any term. If Level 1 or Level 2 core courses are full, students may take electives first and take core courses in later terms.

COMP1511 is expected to be completed by the end of Term 2 Year 1. Students don't need to take COMP1521, COMP1531 and COMP2521 in sequence. Most Computing Electives require completion of COMP2521, students are recommended to complete COMP2521 in the first year of study if possible.

Information is correct as of October 2024 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

Bachelor of Science / Computer Science (3789)
Computer Science (COMPA1) / Mathematics (MATHM1)
T2 Entry 2025 Sample Plan

UNSW SYDNEY

Year 1

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

Year 2

Term 2	**COMP2511** Object-Oriented Design & Programming
	MATH2501 Linear Algebra **OR** **MATH2601** Higher Linear Algebra
	MATH2801 Theory of Statistics **OR** **MATH2901** Higher Theory of Statistics
Term 3	**MATH2521** Complex Analysis **OR** **MATH2621** Higher Complex Analysis
	Computing Elective
	SCIF1000 Skills in Science
Term 1	**Computing Elective**
	Computing Elective

Year 3

Term 2	**MATH2011** Several Variable Calculus **OR** **MATH2111 Higher** Several Variable Calculus
	MATH2121 Theory and Applications of Differential Equations **OR** **MATH2221** Higher Theory and Applications of Differential Equations
	Employability Experience Course
Term 3	**Lvl 3 Maths Prescribed Elective**
	Lvl 3 Non-Statistics Prescribed Elective
	Computing Elective
Term 1	**Lvl 3 Non-Statistics Prescribed Elective**
	Science Elective

Year 4

Term 2	**Science Elective**
	Science Elective
	Employability Experience Course
Term 3	**COMP4920** Professional Issues and Ethics in Information Technology
	Computing Elective
	Science Elective
Term 1	**COMP3900** Computer Science Project
	COMP3121 Algorithm Design and Analysis **OR** **COMP3821** Extended Algorithm Design and Analysis
	SCIF3010 (0 UoC) Graduation Portfolio

NOTES

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

All Level 1 and Level 2 courses are offered in each standard term and electives can be taken in any term. If Level 1 or Level 2 core courses are full, students may take electives first and take core courses in later terms.

COMP1511 is expected to be completed by the end of Term 2 Year 1. Students don't need to take COMP1521, COMP1531 and COMP2521 in sequence. Most Computing Electives require completion of COMP2521, students are recommended to complete COMP2521 in the first year of study if possible.

Bachelor of Science / Computer Science (3789)
Computer Science (COMPA1) / Mathematics (MATHM1)
T3 Entry 2025 Sample Plan

UNSW SYDNEY

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

	Year 2
Term 3	**COMP2511** Object-Oriented Design & Programming
	SCIF1000 Skills in Science
	Employability Experience Course
Term 1	**Computing Elective**
	Computing Elective
	Science Elective
Term 2	**MATH2501** Linear Algebra **OR** **MATH2601** Higher Linear Algebra
	MATH2801 Theory of Statistics **OR** **MATH2901** Higher Theory of Statistics

	Year 3
Term 3	**MATH2521** Complex Analysis **OR** **MATH2621** Higher Complex Analysis
	Lvl 3 Non-Statistics Prescribed Elective
	Computing Elective
Term 1	**Lvl 3 Maths Prescribed Elective**
	Lvl 3 Non-Statistics Prescribed Elective
	Computing Elective
Term 2	**MATH2011** Several Variable Calculus **OR** **MATH2111** **Higher** Several Variable Calculus
	MATH2121 Theory and Applications of Differential Equations **OR** **MATH2221** Higher Theory and Applications of Differential Equations

	Year 4
Term 3	**Employability Experience Course**
	Science Elective
	Science Elective
Term 1	**COMP4920** Professional Issues and Ethics in Information Technology
	Computing Elective
	Science Elective
Term 2	**COMP3900** Computer Science Project
	COMP3121 Algorithm Design and Analysis **OR** **COMP3821** Extended Algorithm Design and Analysis
	SCIF3010 (0 UoC) Graduation Portfolio

NOTES

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

All Level 1 and Level 2 courses are offered in each standard term and electives can be taken in any term. If Level 1 or Level 2 core courses are full, students may take electives first and take core courses in later terms.

COMP1511 is expected to be completed by the end of Term 2 Year 1. Students don't need to take COMP1521, COMP1531 and COMP2521 in sequence. Most Computing Electives require completion of COMP2521, students are recommended to complete COMP2521 in the first year of study if possible.