

# Bachelor of Science - Computer Science (3778)

## Embedded Systems (COMPS1)

### T1 Entry 2025 Sample Plan



**UNSW**  
SYDNEY

Year 1		Year 2		Year 3	
Term 1	<b>COMP1511</b> Programming Fundamentals	Term 1	<b>COMP2511</b> Object-Oriented Design & Programming	Term 1	<b>COMP3121</b> Algorithm Design and Analysis <b>OR</b> <b>COMP3821</b> Extended Algorithm Design and Analysis
	<b>MATH1131</b> Mathematics 1A <b>OR</b> <b>MATH1141</b> (Higher) Mathematics 1A		<b>Discipline Elective</b>		<b>Free Elective</b>
	<b>MATH1081</b> Discrete Mathematics		<b>Discipline Elective</b>		<b>Free Elective</b>
Term 2	<b>MATH1231</b> Mathematics 1B <b>OR</b> <b>MATH1241</b> (Higher) Mathematics 1B	Term 2	<b>General Education Course</b>	Term 2	<b>COMP3900</b> Computer Science Project
	<b>COMP1521</b> Computer Systems Fundamentals		<b>Discipline Elective</b>		<b>Free Elective</b>
	<b>COMP1531</b> Software Engineering Fundamentals		<b>Free Elective</b>		<b>Free Elective</b>
Term 3	<b>COMP2521</b> Data Structures and Algorithms	Term 3	<b>General Education Course</b>	Term 3	<b>COMP4920</b> Professional Issues and Ethics in Information Technology
	<b>Computing Elective</b>		<b>Free Elective</b>		<b>COMP3222</b> Digital Circuits and Systems

<b>NOTES</b>	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 free electives can be taken in any term. If Level 1 or Level 2 core courses are full, students may take free electives first and take core courses in later terms.
	COMP1511 is expected to be completed by the end of Term 2 Year 1. or with of after COMP1511 is completed. 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.
	*Students who completed COMP1531 and COMP2521 can take COMP2511 in Term 1 Year 2.

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## Embedded Systems (COMPS1)

### T2 Entry 2025 Sample Plan



**UNSW**  
SYDNEY

Year 1		Year 2		Year 3	
Term 2	<b>COMP1511</b> Programming Fundamentals	Term 2	<b>COMP2511</b> Object-Oriented Design & Programming	Term 2	<b>Free Elective</b>
	<b>Computing Elective</b>		<b>Free Elective</b>		<b>Free Elective</b>
			<b>Free Elective</b>		<b>General Education Course</b>
Term 3	<b>MATH1131</b> Mathematics 1A <b>OR</b> <b>MATH1141</b> (Higher) Mathematics 1A	Term 3	<b>General Education Course</b>	Term 3	<b>COMP3121</b> Algorithm Design and Analysis <b>OR</b> <b>COMP3821</b> Extended Algorithm Design and Analysis
	<b>COMP1531</b> Software Engineering Fundamentals		<b>Prescribed Elective</b>		<b>COMP3222</b> Digital Circuits and Systems
	<b>COMP2521</b> Data Structures and Algorithms				<b>Free Elective</b>
Term 1	<b>COMP1521</b> Computer Systems Fundamentals	Term 1	<b>Prescribed Elective</b>	Term 1	<b>COMP3900</b> Computer Science Project
	<b>MATH1081</b> Discrete Mathematics		<b>Prescribed Elective</b>		<b>COMP4920</b> Professional Issues and Ethics in Information Technology
	<b>MATH1231</b> Mathematics 1B <b>OR</b> <b>MATH1241</b> (Higher) Mathematics 1B		<b>Free Elective</b>		

<b>NOTES</b>	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 free electives can be taken in any term. If Level 1 or Level 2 core courses are full, students may take free electives first and take core courses in later terms.
	COMP1511 is expected to be completed by the end of Term 2 Year 1. or with of after COMP1511 is completed. 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.
	*Students who completed COMP1531 and COMP2521 can take COMP2511 in Term 1 Year 2.

# Bachelor of Science - Computer Science (3778)

## Embedded Systems (COMPS1)

### T3 Entry 2025 Sample Plan



**UNSW**  
SYDNEY

Year 1		Year 2		Year 3	
Term 3	<b>COMP1511</b> Programming Fundamentals	Term 3	<b>COMP2511</b> Object-Oriented Design & Programming	Term 3	<b>COMP4920</b> Professional Issues and Ethics in Information Technology
	<b>MATH1131</b> Mathematics 1A <b>OR</b> <b>MATH1141</b> (Higher) Mathematics 1A		<b>Free Elective</b>		<b>COMP3121</b> Algorithm Design and Analysis <b>OR</b> <b>COMP3821</b> Extended Algorithm Design and Analysis
	<b>MATH1081</b> Discrete Mathematics		<b>General Education Course</b>		<b>COMP3222</b> Digital Circuits and Systems
Term 1	<b>MATH1231</b> Mathematics 1B <b>OR</b> <b>MATH1241</b> (Higher) Mathematics 1B	Term 1	<b>Prescribed Elective</b>	Term 1	<b>Free Elective</b>
	<b>COMP1531</b> Software Engineering Fundamentals		<b>Prescribed Elective</b>		<b>Free Elective</b>
	<b>COMP2521</b> Data Structures and Algorithms		<b>Free Elective</b>		<b>General Education Course</b>
Term 2	<b>COMP1521</b> Computer Systems Fundamentals	Term 2	<b>Prescribed Elective</b>	Term 2	<b>COMP3900</b> Computer Science Project
	<b>Computing Elective</b>		<b>Free Elective</b>		<b>Free Elective</b>

<b>NOTES</b>	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 free electives can be taken in any term. If Level 1 or Level 2 core courses are full, students may take free electives first and take core courses in later terms.
	COMP1511 is expected to be completed by the end of Term 2 Year 1. or with of after COMP1511 is completed. 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.
	*Students who completed COMP1531 and COMP2521 can take COMP2511 in Term 1 Year 2.

# Bachelor of Science - Computer Science (3778)

## 2025 Commencing Students Program Structure



### PROGRAM STRUCTURE (Single Degree Mode)

An approved Major	96 UOC	96 UOC	144 UOC
Free Electives	36 UOC	48 UOC	
General Education	12 UOC		

### PROGRAM STRUCTURE (Dual Degree Mode)

An approved Major	96 UOC	192 UOC (ADA / BUS / SCI)
Other Degree Courses	96 UOC (ADA or BUS or SCI) 144 UOC (LAW or ENG or SCI)	240 UOC (LAW / ENG / SCI)

**Free Electives** are courses from any Faculty at UNSW including Engineering

**General Education** are courses from non-Engineering Faculties at UNSW. General Education courses cannot be closely related to 3778 core courses. MATHs courses cannot be counted as General Education courses.

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