Engineering

Advanced Computer Science (Honours) (3779)

Artificial Intelligence (COMPIH)

T1 Entry 2025 Sample Plan

UNSW SYDNEY

	Year 1	Year 2	Year 3	Year 4
Term 1	**COMP1511** Programming Fundamentals	**COMP2521** Data Structures and Algorithms	**COMP3821** Extended Algorithm Design and Analysis	**COMP4961** Computer Science Thesis A
	MATH1141 (Higher) Mathematics 1A	**Computing Elective**	**COMP3411** Artificial Intelligence	**Artificial Intelligence Elective**
	MATH1081 Discrete Mathematics	**Computing Elective**	**Free Elective**	**Advanced Computing Elective**
Term 2	**MATH1241** (Higher) Mathematics 1B	**General Education Course**	**COMP3900** Computer Science Project	**COMP4962** Computer Science Thesis B
	COMP1521 Computer Systems Fundamentals	**Computing Elective**	**Free Elective**	**Artificial Intelligence Elective**
	COMP1531 Software Engineering Fundamentals	**Free Elective**	**Free Elective**	**Advanced Computing Elective**
Term 3	**COMP2511** Object-Oriented Design & Programming	**General Education Course**	**COMP4920** Professional Issues and Ethics in Information Technology	**COMP4963** Computer Science Thesis C
	Computing Elective	**Free Elective**	**Free Elective**	**Artificial Intelligence Elective**

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 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. 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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T2 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4
Term 2	**COMP1511** Programming Fundamentals	**COMP2511** Object-Oriented Design & Programming	**Free Elective**	**COMP4961** Computer Science Thesis A
	Computing Elective	**Free Elective**	**Free Elective**	**Artificial Intelligence Elective**
		Free Elective	**General Education Course**	**Advanced Computing Elective**
Term 3	**MATH1141** (Higher) Mathematics 1A	**General Education Course**	**COMP3821** Extended Algorithm Design and Analysis	**COMP4962** Computer Science Thesis B
	COMP1531 Software Engineering Fundamentals	**Computing Elective**	**Free Elective**	**Artificial Intelligence Elective**
	COMP2521 Data Structures and Algorithms	**Computing Elective**		**Advanced Computing Elective**
Term 1	**COMP1521** Computer Systems Fundamentals	**Computing Elective**	**COMP4920** Professional Issues and Ethics in Information Technology	**COMP4963** Computer Science Thesis C
	MATH1081 Discrete Mathematics	**Free Elective**	**COMP3411** Artificial Intelligence	**Artificial Intelligence Elective**
	MATH1241 (Higher) Mathematics 1B		**COMP3900** Computer Science Project	

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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. 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.

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T3 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4
Term 3	**COMP1511** Programming Fundamentals	**COMP2511** Object-Oriented Design & Programming	**COMP4920** Professional Issues and Ethics in Information Technology	**COMP4961** Computer Science Thesis A
	MATH1141 (Higher) Mathematics 1A	**Free Elective**	**Free Elective**	**Artificial Intelligence Elective**
	MATH1081 Discrete Mathematics	**General Education Course**	**Free Elective**	**Advanced Computing Elective**
Term 1	**MATH1241** (Higher) Mathematics 1B	**Computing Elective**	**COMP3821** Extended Algorithm Design and Analysis	**COMP4962** Computer Science Thesis B
	COMP1531 Software Engineering Fundamentals	**Computing Elective**	**COMP3411** Artificial Intelligence	**Artificial Intelligence Elective**
	COMP2521 Data Structures and Algorithms	**Free Elective**	**General Education Course**	**Advanced Computing Elective**
Term 2	**COMP1521** Computer Systems Fundamentals	**Computing Elective**	**COMP3900** Computer Science Project	**COMP4963** Computer Science Thesis C
	Computing Elective	**Free Elective**	**Free Elective**	**Artificial Intelligence Elective**

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 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. 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.