

Advanced Computer Science (Honours) (3779)

Security Engineering (COMPYH)

T1 Entry 2025 Sample Plan



Year 1		Year 2		Year 3		Year 4	
Term 1	COMP1511 Programming Fundamentals	Term 1	COMP2521 Data Structures and Algorithms	Term 1	Free Elective	Term 1	COMP4961 Computer Science Thesis A
	MATH1141 (Higher) Mathematics 1A		Computing Elective		Free Elective		Security Engineering Elective
	MATH1081 Discrete Mathematics		Computing Elective				Advanced Computing Elective
Term 2	MATH1241 (Higher) Mathematics 1B	Term 2	Computing Elective	Term 2	COMP3900 Computer Science Project	Term 2	COMP4962 Computer Science Thesis B
	COMP1521 Computer Systems Fundamentals		General Education Course		Free Elective		Security Engineering Elective
	COMP1531 Software Engineering Fundamentals		Free Elective		Free Elective		Advanced Computing Elective
Term 3	COMP2511 Object-Oriented Design & Programming	Term 3	General Education Course	Term 3	COMP4920 Professional Issues and Ethics in Information Technology	Term 3	COMP4963 Computer Science Thesis C
	Computing Elective		Free Elective		COMP6441 Security Engineering and Cyber Security <u>OR</u> COMP6841 Extended Security Engineering and Cyber Security		Security Engineering Elective
					COMP3821 Extended Algorithm Design and Analysis		

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.

Advanced Computer Science (Honours) (3779)

Security Engineering (COMPYH)

T2 Entry 2025 Sample Plan



Year 1		Year 2		Year 3		Year 4	
Term 2	COMP1511 Programming Fundamentals	Term 2	COMP2511 Object-Oriented Design & Programming	Term 2	Free Elective	Term 2	COMP4961 Computer Science Thesis A
	Computing Elective		Free Elective		Free Elective		Security Engineering Elective
Term 3	MATH1141 (Higher) Mathematics 1A	Term 3	Free Elective	Term 3	General Education Course	Term 3	Advanced Computing Elective
	COMP1531 Software Engineering Fundamentals		General Education Course		COMP6441 Security Engineering and Cyber Security <u>OR</u> COMP6841 Extended Security Engineering and Cyber Security		COMP4962 Computer Science Thesis B
	COMP2521 Data Structures and Algorithms		Computing Elective		COMP3821 Extended Algorithm Design and Analysis		Security Engineering Elective
Term 1	COMP1521 Computer Systems Fundamentals	Term 1	Free Elective	Term 1	Free Elective	Term 1	Advanced Computing Elective
	MATH1081 Discrete Mathematics		Computing Elective		COMP3900 Computer Science Project		COMP4963 Computer Science Thesis C
	MATH1241 (Higher) Mathematics 1B		Computing Elective		COMP4920 Professional Issues and Ethics in Information Technology		Security Engineering 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.

Advanced Computer Science (Honours) (3779)

Security Engineering (COMPYH)

T3 Entry 2025 Sample Plan



Year 1		Year 2		Year 3		Year 4	
Term 3	COMP1511 Programming Fundamentals	Term 3	COMP2511 Object-Oriented Design & Programming	Term 3	COMP4920 Professional Issues and Ethics in Information Technology	Term 3	COMP4961 Computer Science Thesis A
	MATH1141 (Higher) Mathematics 1A		Free Elective		COMP3821 Extended Algorithm Design and Analysis		Security Engineering Elective
	MATH1081 Discrete Mathematics		Free Elective		COMP6441 Security Engineering and Cyber Security OR COMP6841 Extended Security Engineering and Cyber Security		Advanced Computing Elective
Term 1	MATH1241 (Higher) Mathematics 1B	Term 1	Computing Elective	Term 1	Free Elective	Term 1	COMP4962 Computer Science Thesis B
	COMP1531 Software Engineering Fundamentals		Computing Elective		Free Elective		Security Engineering Elective
	COMP2521 Data Structures and Algorithms		Free Elective		General Education Course		Advanced Computing Elective
Term 2	COMP1521 Computer Systems Fundamentals	Term 2	Computing Elective	Term 2	COMP3900 Computer Science Project	Term 2	COMP4963 Computer Science Thesis C
	Computing Elective		Free Elective		General Education Course		Security Engineering Elective

NOTES
<p>This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.</p> <p>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.</p> <p>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.</p> <p>Most Computing Electives require completion of COMP2521, students are recommended to complete COMP2521 in the first year of study if possible.</p> <p>*Students who completed COMP1531 and COMP2521 can take COMP2511 in Term 1 Year 2.</p>