

		Year 2		Year 3		Year 4		Year 5	
Term 1	MATH1141 Higher Mathematics 1A	Term 1	ENGG2500 Fluid Mechanics for Engineers	Term 1	COMP2521 Data Structures and Algorithms	Term 1	CVEN3501 Water Resources Engineering	Term 1	CVEN4951 Honours Research Thesis A
	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A		MATH2018 Engineering Mathematics 2D <u>OR</u> MATH2019 Engineering Mathematics 2E		GMAT3220 Geospatial Information Systems		GMAT3100 Surveying Applications and Design		
	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B		GMAT2500 Surveying Computations A				GMAT3150 Surveying Field Projects		
Term 2	COMP1531 Software Engineering Fundamentals	Term 2	DESN2000 Engineering Design and Professional Practice	Term 2	COMP3121 Algorithm Design and Analysis	Term 2	GMAT3700 Geodetic Positioning and Applications		
	GMAT1110 Surveying and Geospatial Engineering		CVEN2002 Civil and Environmental Engineering Computations		COMP2511 Object-Oriented Design and Programming		Discipline Elective		
	COMP1521 Computer Systems Fundamentals		GMAT2700 Foundations of Geodesy and Geospatial Reference Frames		Computing Elective				
Term 3	DESN1000 Introduction to Engineering Design and Innovation	Term 3	GMAT2120 Surveying and Geospatial Technology	Term 3	COMP3900 Computer Science Project	Term 3	GMAT3420 Cadastral Surveying and Land Law		
			GMAT2550 Surveying Computations B		COMP4920 Professional Issues and Ethics in Information Technology		GMAT3500 Remote Sensing and Photogrammetry		
					CVEN3101 Engineering Operations and Control		GMAT4150 Field Projects 2		

# Bachelor of Engineering (Honours) / Computer Science (3785)

## Surveying (GMATDH) / Computer Science (COMPA1)

### T2 Entry 2025 Sample Plan



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 2	COMP1511 Programming Fundamentals	Term 2	DESN2000 Engineering Design and Professional Practice	Term 2	GMAT2700 Foundations of Geodesy and Geospatial Reference Frames	Term 2	GMAT3700 Geodetic Positioning and Applications	Term 2	CVEN4951 Honours Research Thesis A
	GMAT1110 Surveying and Geospatial Engineering		CVEN2002 Civil and Environmental Engineering Computations		COMP3121 Algorithm Design and Analysis		COMP3900 Computer Science Project		Computing Elective
			COMP1521 Computer Systems Fundamentals						Discipline Elective*
Term 3	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A	Term 3	COMP2521 Data Structures and Algorithms	Term 3	GMAT2120 Surveying and Geospatial Technology	Term 3	CVEN3101 Engineering Operations and Control	Term 3	CVEN4952 Honours Research Thesis B
	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A		ENGG2500 Fluid Mechanics for Engineers		GMAT2550 Surveying Computations B		GMAT3420 Cadastral Surveying and Land Law		GMAT4150 Field Projects 2
	COMP1531 Software Engineering Fundamentals				Computing Elective		GMAT3500 Remote Sensing and Photogrammetry		Computing Elective
Term 1	DESN1000 Introduction to Engineering Design and Innovation	Term 1	MATH2018 Engineering Mathematics 2D <u>OR</u> MATH2019 Engineering Mathematics 2E	Term 1	CVEN3501 Water Resources Engineering	Term 1	GMAT3220 Geospatial Information Systems	Term 1	CVEN4953 Honours Research Thesis B
	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B		GMAT2500 Surveying Computations A		GMAT3100 Surveying Applications and Design		COMP4920 Professional Issues and Ethics in Information Technology		Discipline Elective*
	Computing Elective		COMP2511 Object-Oriented Design and Programming		GMAT3150 Surveying Field Projects		Discipline Elective		Computing Elective

<b>NOTES</b>	<b>This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.</b>
	Compulsory Training Component: There is a program requirement of 60 days approved <a href="#">Industrial Training</a> ENGG4999 <b>Students can take alternative thesis options. Please see the Handbook for available options and adjust study plan accordingly.</b> *Recommended Discipline Elective Courses: GMAT4400, GMAT4220.

# Bachelor of Engineering (Honours) / Computer Science (3785)

## Surveying (GMATDH) / Computer Science (COMPA1)

### T3 Entry 2025 Sample Plan



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 3	COMP1511 Programming Fundamentals	Term 3	COMP2521 Data Structures and Algorithms	Term 3	GMAT2120 Surveying and Geospatial Technology	Term 3	GMAT3420 Cadastral Surveying and Land Law	Term 3	CVEN4951 Honours Research Thesis A
	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A		ENGG2500 Fluid Mechanics for Engineers		CVEN3101 Engineering Operations and Control		GMAT3500 Remote Sensing and Photogrammetry		GMAT4150 Field Projects 2
	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A		GMAT2550 Surveying Computations B		COMP2511 Object-Oriented Design and Programming		Discipline Elective		Computing Elective
Term 1	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B	Term 1	MATH2018 Engineering Mathematics 2D <u>OR</u> MATH2019 Engineering Mathematics 2E	Term 1	COMP3121 Algorithm Design and Analysis <u>OR</u> COMP3821 Extended Algorithm Design and Analysis	Term 1	CVEN3501 Water Resources Engineering	Term 1	CVEN4952 Honours Research Thesis B
	DESN1000 Introduction to Engineering Design and Innovation		GMAT2500 Surveying Computations A		GMAT3220 Geospatial Information Systems		GMAT3100 Surveying Applications and Design		Computing Elective
	COMP1521 Computer Systems Fundamentals				COMP4920 Professional Issues and Ethics in Information Technology		GMAT3150 Surveying Field Projects		Discipline Elective*
Term 2	COMP1531 Software Engineering Fundamentals	Term 2	CVEN2002 Civil and Environmental Engineering Computations	Term 2	COMP3900 Computer Science Project	Term 2	Discipline Elective*	Term 2	CVEN4953 Honours Research Thesis B
	GMAT1110 Surveying and Geospatial Engineering		DESN2000 Engineering Design and Professional Practice		GMAT3700 Geodetic Positioning and Applications		Computing Elective		Computing Elective
			GMAT2700 Foundations of Geodesy and Geospatial Reference Frames						Computing Elective

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