

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

[Mining Engineering \(MINEAH\)](#) / [Computer Science \(COMPA1\)](#)

T1 Entry 2025 Sample Plan



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 1	COMP1511 Programming Fundamentals	Term 1	COMP1521 Computer Systems Fundamentals	Term 1	MINE3430 Mining Systems	Term 1	COMP3121 Algorithm Design and Analysis OR COMP3821 Extended Algorithm Design and Analysis	Term 1	MERE4951 Research Thesis A
	MATH1131 Mathematics 1A OR MATH1141 Higher Mathematics 1A		MATH2018 Engineering Mathematics 2D OR MATH2019 Engineering Mathematics 2E		MINE3220 Resource Estimation		COMP3900 Computer Science Project		MINE4250 Mine Design and Feasibility Project
	PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A		CEIC2001 Fluid and Particle Mechanics		MINE3310 Mining Geomechanics				MINE4310 Mine Geotechnical Engineering
Term 2	MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B	Term 2	MERE2810 Mineral Resource Geology & Geophysics	Term 2	COMP2511 Object-Oriented Design and Programming	Term 2	MINE4710 Mine Management	Term 2	MERE4952 Research Thesis B
	COMP1531 Software Engineering Fundamentals		DESN2000 Engineering Design and Professional Practice		MINE3230 Mine Planning		MINE3910 Socio-Environmental Aspects of Mining		Computing Elective
			ENGG2400 Mechanics of Solids 1				Discipline Elective		
Term 3	DESN1000 Introduction to Engineering Design and Innovation	Term 3	MATH2089 Numerical Methods and Statistics	Term 3	MINE3510 Mine Ventilation	Term 3	COMP4920 Professional Issues and Ethics in Information Technology	Term 3	MERE4953 Research Thesis C
	ENGG1300 Engineering Mechanics		COMP2521 Data Structures and Algorithms		MINE3630 Rock Breakage		Computing Elective		Computing Elective
	GEOS1111 Investigating Earth and Its Evolution				MINE2820 Minerals Processing		Computing Elective		Computing Elective

NOTES

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

Compulsory Training Component: There is a program requirement of 60 days approved [Industrial Training](#) ENGG4999

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T2 Entry 2025 Sample Plan



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 2	COMP1511 Programming Fundamentals	Term 2	COMP1531 Software Engineering Fundamentals	Term 2	MERE2810 Mineral Resource Geology & Geophysics	Term 2	MINE3230 Mine Planning	Term 2	MERE4951 Research Thesis A
	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A		DESN2000 Engineering Design and Professional Practice		MINE3910 Socio-Environmental Aspects of Mining		COMP2511 Object-Oriented Design and Programming		Discipline Elective
	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A		ENGG2400 Mechanics of Solids 1		MINE4710 Mine Management		Computing Elective		Computing Elective
Term 3	DESN1000 Introduction to Engineering Design and Innovation	Term 3	MATH2089 Numerical Methods and Statistics	Term 3	MINE3510 Mine Ventilation	Term 3	COMP3900 Computer Science Project	Term 3	MERE4952 Research Thesis B
	ENGG1300 Engineering Mechanics		MINE2820 Minerals Processing		MINE3630 Rock Breakage		Computing Elective		COMP4920 Professional Issues and Ethics in Information Technology
	GEOS1111 Investigating Earth and Its Evolution								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	MINE3220 Resource Estimation	Term 1	COMP3121 Algorithm Design and Analysis <u>OR</u> COMP3821 Extended Algorithm Design and Analysis	Term 1	MERE4953 Research Thesis C
	COMP1521 Computer Systems Fundamentals		CEIC2001 Fluid and Particle Mechanics		MINE3310 Mining Geomechanics		MINE4250 Mine Design and Feasibility Project		Computing Elective
			MINE3430 Mining Systems		COMP2521 Data Structures and Algorithms		MINE4310 Mine Geotechnical Engineering		Discipline Elective

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Compulsory Training Component: There is a program requirement of 60 days approved [Industrial Training](#) ENGG4999

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T3 Entry 2025 Sample Plan



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 3	COMP1511 Programming Fundamentals	Term 3	COMP1531 Software Engineering Fundamentals	Term 3	MINE2820 Minerals Processing	Term 3	COMP3900 Computer Science Project	Term 3	MERE4951 Research Thesis A
	GEOS1111 Investigating Earth and Its Evolution		MATH2089 Numerical Methods and Statistics		MINE3510 Mine Ventilation		COMP3121 Algorithm Design and Analysis		Discipline Elective
					MINE3630 Rock Breakage		Computing Elective		Computing Elective
Term 1	PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A	Term 1	MATH2018 Engineering Mathematics 2D OR MATH2019 Engineering Mathematics 2E	Term 1	COMP2521 Data Structures and Algorithms	Term 1	MINE3310 Mining Geomechanics	Term 1	MERE4952 Research Thesis B
	MATH1131 Mathematics 1A OR MATH1141 Higher Mathematics 1A		MINE3430 Mining Systems		MINE3220 Resource Estimation		MINE4250 Mine Design and Feasibility Project		Computing Elective
	DESN1000 Introduction to Engineering Design and Innovation		CEIC2001 Fluid and Particle Mechanics				MINE4310 Mine Geotechnical Engineering		Computing Elective
Term 2	MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B	Term 2	DESN2000 Engineering Design and Professional Practice	Term 2	COMP2511 Object-Oriented Design and Programming	Term 2	MINE3910 Socio-Environmental Aspects of Mining	Term 2	MERE4953 Research Thesis C
	ENGG1300 Engineering Mechanics		ENGG2400 Mechanics of Solids 1		MINE3230 Mine Planning		COMP4920 Professional Issues and Ethics in Information Technology		Computing Elective
	COMP1521 Computer Systems Fundamentals		MERE2810 Mineral Resource Geology & Geophysics		MINE4710 Mine Management				Discipline Elective

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