

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

[Geoenergy and Geostorage Engineering \(MEREAH\)](#) / [Computer Science \(COMPA1\)](#)

## T1 Entry 2025 Sample Plan



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 1	<b>COMP1511</b> Programming Fundamentals	Term 1	<b>COMP1521</b> Computer Systems Fundamentals	Term 1	<b>MERE3001</b> Formation Evaluation	Term 1	<b>COMP3121</b> Algorithm Design and Analysis <b>OR</b> <b>COMP3821</b> Extended Algorithm Design and Analysis	Term 1	<b>MERE4951</b> Research Thesis A
	<b>MATH1131</b> Mathematics 1A <b>OR</b> <b>MATH1141</b> Higher Mathematics 1A		<b>MATH2018</b> Engineering Mathematics 2D <b>OR</b> <b>MATH2019</b> Engineering Mathematics 2E		<b>MINE3310</b> Mining Geomechanics		<b>COMP3900</b> Computer Science Project		<b>MERE5007</b> Geostorage Modelling
	<b>PHYS1121</b> Physics 1A <b>OR</b> <b>PHYS1131</b> Higher Physics 1A		<b>CHEM1811</b> Engineering Chemistry 1A		<b>MMAN2700</b> Thermodynamics		<b>MERE5006</b> Decommissioning and Sustainab		<b>Computing Elective</b>
Term 2	<b>MATH1231</b> Mathematics 1B <b>OR</b> <b>MATH1241</b> Higher Mathematics 1B	Term 2	<b>MERE2810</b> Mineral Resource Geology & Geophysics	Term 2	<b>COMP2511</b> Object-Oriented Design and Programming	Term 2	<b>MERE5004</b> Reservoir & Data Sci	Term 2	<b>MERE4952</b> Research Thesis B
	<b>COMP1531</b> Software Engineering Fundamentals		<b>ENGG2400</b> Mechanics of Solids 1		<b>MERE3002</b> Drilling Completion Engineer		<b>Discipline Elective</b>		<b>MERE5008</b> Geostorage Project
Term 3	<b>DESN1000</b> Introduction to Engineering Design and Innovation	Term 3	<b>MATH2089</b> Numerical Methods and Statistics	Term 3	<b>MERE3003</b> Reservoir Engineering	Term 3	<b>COMP4920</b> Professional Issues and Ethics in Information Technology	Term 3	<b>MERE4953</b> Research Thesis C
	<b>ENGG1811</b> Computing for Engineers		<b>COMP2521</b> Data Structures and Algorithms		<b>MERE5003</b> Transient Flow Analysis		<b>MERE5005</b> Resources Project Economics		<b>Computing Elective</b>
	<b>GEOS1111</b> Investigating Earth and Its Evolution		<b>DESN2000</b> Engineering Design and Professional Practice		<b>Computing Elective</b>		<b>Computing Elective</b>		<b>Computing Elective</b>

## 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

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

## Geoenergy and Geostorage Engineering (MEREAH) / Computer Science (COMPA1)

### T2 Entry 2025 Sample Plan



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 2	<b>COMP1511</b> Programming Fundamentals	Term 2	<b>COMP1531</b> Software Engineering Fundamentals	Term 2	<b>MERE2810</b> Mineral Resource Geology & Geophysics	Term 2	<b>MERE3003</b> Reservoir Engineering	Term 2	<b>MERE4951</b> Research Thesis A
	<b>MATH1131</b> Mathematics 1A <u>OR</u> <b>MATH1141</b> Higher Mathematics 1A		<b>ENGG1811</b> Computing for Engineers		<b>MERE3002</b> Drilling Completion Engineer		<b>COMP2511</b> Object-Oriented Design and Programming		<b>MERE5008</b> Geostorage Project
	<b>PHYS1121</b> Physics 1A <u>OR</u> <b>PHYS1131</b> Higher Physics 1A				<b>MERE5004</b> Reservoir & Data Sci		<b>Computing Elective</b>		<b>Discipline Elective</b>
Term 3	<b>DESN1000</b> Introduction to Engineering Design and Innovation	Term 3	<b>MATH2089</b> Numerical Methods and Statistics	Term 3	<b>MERE5005</b> Resources Project Economics	Term 3	<b>COMP3900</b> Computer Science Project	Term 3	<b>MERE4952</b> Research Thesis B
	<b>CHEM1811</b> Engineering Chemistry 1A		<b>MMAN2700</b> Thermodynamics		<b>Computing Elective</b>		<b>MERE5003</b> Transient Flow Analysis		<b>COMP4920</b> Professional Issues and Ethics in Information Technology
	<b>GEOS1111</b> Investigating Earth and Its Evolution		<b>DESN2000</b> Engineering Design and Professional Practice				<b>Computing Elective</b>		<b>Computing Elective</b>
Term 1	<b>MATH1231</b> Mathematics 1B <u>OR</u> <b>MATH1241</b> Higher Mathematics 1B	Term 1	<b>MATH2018</b> Engineering Mathematics 2D <u>OR</u> <b>MATH2019</b> Engineering Mathematics 2E	Term 1	<b>MERE5006</b> Decommissioning and Sustainability	Term 1	<b>COMP3121</b> Algorithm Design and Analysis <u>OR</u> <b>COMP3821</b> Extended Algorithm Design and Analysis	Term 1	<b>MERE4953</b> Research Thesis C
	<b>COMP1521</b> Computer Systems Fundamentals		<b>ENGG2400</b> Mechanics of Solids 1		<b>MINE3310</b> Mining Geomechanics		<b>MERE5007</b> Geostorage Modelling		<b>Computing Elective</b>
			<b>MERE3001</b> Formation Evaluation		<b>COMP2521</b> Data Structures and Algorithms				<b>Discipline Elective</b>

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

## Geoenergy and Geostorage Engineering (MEREAH) / Computer Science (COMPA1)

### T3 Entry 2025 Sample Plan



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 3	<b>COMP1511</b> Programming Fundamentals	Term 3	<b>DESN2000</b> Engineering Design and Professional Practice	Term 3	<b>COMP2521</b> Data Structures and Algorithms	Term 3	<b>COMP3900</b> Computer Science Project	Term 3	<b>MERE4951</b> Research Thesis A
	<b>GEOS1111</b> Investigating Earth and Its Evolution		<b>MATH2089</b> Numerical Methods and Statistics		<b>Discipline Elective</b>		<b>COMP3121</b> Algorithm Design and Analysis		<b>MERE5005</b> Resources Project Economics
			<b>ENGG1811</b> Computing for Engineers		<b>Computing Elective</b>		<b>MERE5003</b> Transient Flow Analysis		<b>Computing Elective</b>
Term 1	<b>PHYS1121</b> Physics 1A <u>OR</u> <b>PHYS1131</b> Higher Physics 1A	Term 1	<b>MATH2018</b> Engineering Mathematics 2D <u>OR</u> <b>MATH2019</b> Engineering Mathematics 2E	Term 1	<b>COMP2511</b> Object-Oriented Design and Programming	Term 1	<b>MINE3310</b> Mining Geomechanics	Term 1	<b>MERE4952</b> Research Thesis B
	<b>MATH1131</b> Mathematics 1A <u>OR</u> <b>MATH1141</b> Higher Mathematics 1A		<b>MMAN2700</b> Thermodynamics		<b>MERE3001</b> Formation Evaluation		<b>MERE5006</b> Decommissioning and Sustainability		<b>MERE5007</b> Geostorage Modelling
	<b>DESN1000</b> Introduction to Engineering Design and Innovation		<b>COMP1531</b> Software Engineering Fundamentals				<b>Discipline Elective</b>		<b>Computing Elective</b>
Term 2	<b>MATH1231</b> Mathematics 1B <u>OR</u> <b>MATH1241</b> Higher Mathematics 1B	Term 2	<b>ENGG2400</b> Mechanics of Solids 1	Term 2	<b>MERE3002</b> Drilling Completion Engineer	Term 2	<b>MERE5004</b> Reservoir & Data Sci	Term 2	<b>MERE4953</b> Research Thesis C
	<b>CHEM1811</b> Engineering Chemistry 1A		<b>MERE2810</b> Mineral Resource Geology & Geophysics		<b>MERE3003</b> Reservoir Engineering		<b>COMP4920</b> Professional Issues and Ethics in Information Technology		<b>MERE5008</b> Geostorage Project
	<b>COMP1521</b> Computer Systems Fundamentals				<b>Computing Elective</b>				<b>Computing Elective</b>

<b>NOTES</b>	<p><b>This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.</b></p> <p>Compulsory Training Component: There is a program requirement of 60 days approved <a href="#">Industrial Training</a> ENGG4999</p>
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