Engineering

Bachelor of Engineering (Honours) / Science (3767)

Chemical Engineering (CEICAH) / Chemistry (CHEMA1)

T1 Entry 2025 Sample Plan

Year 1	
Term 1	**ENGG1811** Computing for Engineers
	CHEM1811 Engineering Chemistry 1A
	SCIF0000 (0 UoC) Introduction to University
Term 2	**MATH1131** Mathematics 1A
	PHYS1121 Physics 1A
	CHEM1821 Engineering Chemistry 1B
Term 3	**DESN1000** Introduction to Engineering Design and Innovation
	MATH1231 Mathematics 1B OR **MATH1241** Higher Mathematics 1B
	MATH2089 Numerical Methods and Statistics

Year 2	
Term 1	**CEIC2000** Material and Energy Systems
	CEIC2001 Fluid and Particle Mechanics
Term 2	**MATH2018③** Engineering Mathematics 2D
	CEIC2002 Heat and Mass Transfer
	CEIC2005 Chemical Reaction Engineering
Term 3	**CEIC2007** Chemical Engineering Lab A
	DESN2000 Engineering Design and Professional Practice
	Science Elective

Year 3	
Term 1	**CHEM2041** Analytical Chemistry: Essential Methods
	CEIC3000 Process Modelling and Analysis
Term 2	**CHEM2011** Physical Chemistry: Molecules, Energy and Change
	CHEM2021 Organic Chemistry: Mechanisms and Biomolecules
	Level 3 Prescribed Elective
Term 3	**CEIC3001** Advanced Thermodynamics and Separation
	CHEM2031 Inorganic Chemistry: The Elements
	SCIF1000 Skills in Science

Year 4	
Term 1	**CEIC3004** Process Equipment Design
	CEIC3005 Process Plant Design
Term 2	**CEIC3006** Process Dynamics and Control
	CEIC3007 Chemical Engineering Lab B
	Level 3 Prescribed Elective
Term 3	**CEIC4000** Environment and Sustainability
	Employability Experience Course
	Level 3 Prescribed Elective

Year 5	
Term 1	**CEIC4951** Research Thesis A
	CEIC4001 Process Design Project
Term 2	**CEIC4952** Research Thesis B
	Employability Experience Course
	Breadth Elective
Term 3	**CEIC4953** Research Thesis C
	SCIF3010 (0 UoC) Graduation Portfolio
	Discipline Elective
	Level 3 Prescribed 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

Engineering

Bachelor of Engineering (Honours) / Science (3767)

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T2 Entry 2025 Sample Plan

Year 1	
Term 2	**ENGG1811** Computing for Engineers
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A
	SCIF0000 (0 UoC) Introduction to University
Term 3	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B
	DESN1000 Introduction to Engineering Design and Innovation
Term 1	**CHEM1811** Engineering Chemistry 1A
	MATH2089 Numerical Methods and Statistics
	CEIC2000 Material and Energy Systems

Year 2	
Term 2	**CEIC2002** Heat and Mass Transfer
	CEIC2005 Chemical Reaction Engineering
	CHEM1821 Engineering Chemistry 1B
Term 3	**DESN2000** Engineering Design and Professional Practice
	CEIC2007 Chemical Engineering Lab A
	SCIF1000 Skills in Science
Term 1	**CEIC2001** Fluid and Particle Mechanics
	MATH2018 Engineering Mathematics 2D OR **MATH2019** Engineering Mathematics 2E

Year 3	
Term 2	**CHEM2011** Physical Chemistry: Molecules, Energy and Change
	CHEM2021 Organic Chemistry: Mechanisms and Biomolecules
	Level 3 Prescribed Elective
Term 3	**Level 3 Prescribed Elective**
	Science Elective
Term 1	**CHEM2041** Analytical Chemistry: Essential Methods
	CEIC3000 Process Modelling and Analysis
	Employability Experience Course

Year 4	
Term 2	**CEIC4000** Environment and Sustainability
	CEIC3006 Process Dynamics and Control
	CEIC3007 Chemical Engineering Lab B
Term 3	**CEIC3001** Advanced Thermodynamics and Separation
	CHEM2031 Inorganic Chemistry: The Elements
Term 1	**CEIC3004** Process Equipment Design
	CEIC3005 Process Plant Design
	Level 3 Prescribed Elective

Year 5	
Term 2	**CEIC4951** Research Thesis A
	Level 3 Prescribed Elective
	Breadth Elective
Term 3	**CEIC4952** Research Thesis B
	Discipline Elective
	Employability Experience Course
Term 1	**CEIC4953** Research Thesis C
	CEIC4001 Process Design Project
	SCIF3010 (0 UoC) Graduation Portfolio

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Engineering

Bachelor of Engineering (Honours) / Science (3767)

Chemical Engineering (CEICAH) / Chemistry (CHEMA1)

T3 Entry 2025 Sample Plan

Year 1	
Term 3	**ENGG1811** Computing for Engineers
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A
	SCIF0000 (0 UoC) Introduction to University
Term 1	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B
	CHEM1811 Engineering Chemistry 1A
	DESN1000 Introduction to Engineering Design and Innovation
Term 2	**CHEM1821** Engineering Chemistry 1B
	MATH2018 Engineering Mathematics 2D

Year 2	
Term 3	**SCIF1000** Skills in Science
	MATH2089 Numerical Methods and Statistics
Term 1	**CHEM2041** Analytical Chemistry: Essential Methods
	CEIC2000 Material and Energy Systems
	CEIC2001 Fluid and Particle Mechanics
Term 2	**CHEM2011** Physical Chemistry: Molecules, Energy and Change
	CEIC2002 Heat and Mass Transfer
	CEIC2005 Chemical Reaction Engineering

Year 3	
Term 3	**CEIC3001** Advanced Thermodynamics and Separation
	CEIC2007 Chemical Engineering Lab A
	DESN2000 Engineering Design and Professional Practice
Term 1	**CEIC3004** Process Equipment Design
	CEIC3000 Process Modelling and Analysis
	Level 3 Prescribed Elective
Term 2	**CHEM2021** Organic Chemistry: Mechanisms and Biomolecules
	Breadth Elective

Year 4	
Term 3	**CHEM2031** Inorganic Chemistry: The Elements
	Level 3 Prescribed Elective
Term 1	**CEIC3005** Process Plant Design
	Employability Experience Course
	Level 3 Prescribed Elective
Term 2	**CEIC3006** Process Dynamics and Control
	CEIC3007 Chemical Engineering Lab B
	CEIC4000 Environment and Sustainability

Year 5	
Term 3	**CEIC4951** Research Thesis A
	Discipline Elective
	Employability Experience Course
Term 1	**CEIC4952** Research Thesis B
	CEIC4001 Process Design Project
Term 2	**CEIC4953** Research Thesis C
	SCIF3010 (0 UoC) Graduation Portfolio
	Level 3 Prescribed Elective
	Science Elective

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Compulsory Training Component: There is a program requirement of 60 days approved Industrial Training ENGG4999