Engineering

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

Chemical Product Engineering (CEICDH) / Computer Science (COMPA1)

T1 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4	Year 5
Term 1	**COMP1511** Programming Fundamentals	**COMP1531** Software Engineering Fundamentals	**CEIC2000** Material and Energy Systems	**COMP3121** Algorithm Design and Analysis OR **COMP3821** Extended Algorithm Design and Analysis	**CEIC4007** Product Design Project Thesis A
	CHEM1811 Engineering Chemistry 1A	**MATH2018** Engineering Mathematics 2D OR **MATH2019** Engineering Mathematics 2E	**CEIC2001** Fluid and Particle Mechanics	**CHEM3021** Organic Chemistry: Modern Synthetic Strategies	**CEIC6711** Complex Fluids Microstructure and Rheology
	DESN1000 Introduction to Engineering Design and Innovation	**CHEM2041** Analytical Chemistry: Essential Methods		**Computing Elective**	**Computing Elective**
Term 2	**CHEM1821** Engineering Chemistry 1B	**COMP2521** Data Structures and Algorithms	**CEIC2002** Heat and Mass Transfer	**CEIC4000** Environment and Sustainability	**CEIC4008** Product Design Project Thesis B
	MATH1131① Mathematics 1A	**Computing Elective**	**CEIC2005** Chemical Reaction Engineering	**CEIC8104** Topics in Polymer Technology	**CEIC8204*** OR Entrepreneurship and the Innovation Cycle
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A		**CHEM2021** Organic Chemistry: Mechanisms and Biomolecules		**Discipline Elective**
Term 3	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B	**CHEM2031** Inorganic Chemistry: The Elements	**COMP3900** Computer Science Project	**COMP4920** Professional Issues and Ethics in Information Technology	***ELEC4445** Entrepreneurial Engineering
	COMP1521 Computer Systems Fundamentals	**MATH2089** Numerical Methods and Statistics	**CEIC3001** Advanced Thermodynamics and Separation	**Computing Elective**	**Discipline Elective**
		DESN2000 Engineering Design and Professional Practice	**COMP2511** Object-Oriented Design and Programming	**Discipline 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

①**Students can take MATH1131 or MATH1141 depending on term offerings** ***Students may take CEIC8204 or ELEC4445**

Information is correct as of October 2024 and is based on proposed prerequisites and course availability. This is to be used as a guide only and does not replace individual advice. Refer to the Handbook and Class Timetable for the relevant term to check availability for these courses.
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Engineering

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

Chemical Product Engineering (CEICDH) / Computer Science (COMPA1)

T2 Entry 2025 Sample Plan

Year 1	
Term 2	**COMP1511** Programming Fundamentals
	MATH1131① Mathematics 1A
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A
Term 3	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B
	COMP1521 Computer Systems Fundamentals
Term 1	**DESN1000** Introduction to Engineering Design and Innovation
	CHEM1811 Engineering Chemistry 1A
	COMP1531 Software Engineering Fundamentals

Year 2	
Term 2	**COMP2521** Data Structures and Algorithms
	CHEM1821 Engineering Chemistry 1B
	MATH2089 Numerical Methods and Statistics
Term 3	**DESN2000** Engineering Design and Professional Practice
	COMP2511 Object-Oriented Design and Programming
Term 1	**MATH2018** Engineering Mathematics 2D OR **MATH2019** Engineering Mathematics 2E
	CEIC2000 Material and Energy Systems
	CEIC2001 Fluid and Particle Mechanics

Year 3	
Term 2	**CHEM2021** Organic Chemistry: Mechanisms and Biomolecules
	CEIC2005 Chemical Reaction Engineering
	CEIC2002 Heat and Mass Transfer
Term 3	**CHEM2041** Analytical Chemistry: Essential Methods
	CEIC3001 Advanced Thermodynamics and Separation
	COMP3900 Computer Science Project
Term 1	**CHEM3021** Organic Chemistry: Modern Synthetic Strategies
	COMP3121 Algorithm Design and Analysis OR **COMP3821** Extended Algorithm Design and Analysis

Year 4	
Term 2	**COMP4920** Professional Issues and Ethics in Information Technology
	CEIC4000 Environment and Sustainability
	CEIC8104 Topics in Polymer Technology
Term 3	**CHEM2031** Inorganic Chemistry: The Elements
	Discipline Elective
Term 1	**CEIC4007** Product Design Project Thesis A
	CEIC6711 Complex Fluids Microstructure and Rheology
	Computing Elective

Year 5	
Term 2	**CEIC4008** Product Design Project Thesis B
	CEIC8204* OR Entrepreneurship and the Innovation Cycle
	Discipline Elective
Term 3	***ELEC4445** Entrepreneurial Engineering
	Computing Elective
	Computing Elective
Term 1	**Computing Elective**
	Computing Elective
	Discipline Elective

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

①**Students can take MATH1131 or MATH1141 depending on term offerings** ***Students may take CEIC8204 or ELEC4445**

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Engineering

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

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T3 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4	Year 5
Term 3	**COMP1511** Programming Fundamentals	**CHEM2041** Analytical Chemistry: Essential Methods	**CHEM2031** Inorganic Chemistry: The Elements	**CEIC3001** Advanced Thermodynamics and Separation	ELEC4445* OR Entrepreneurial Engineering
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A	**COMP1521** Computer Systems Fundamentals	**DESN2000** Engineering Design and Professional Practice	**COMP4920** Professional Issues and Ethics in Information Technology	**Computing Elective**
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A		**MATH2089** Numerical Methods and Statistics	**Discipline Elective**	**Discipline Elective**
Term 1	**DESN1000** Introduction to Engineering Design and Innovation	**MATH2018** Engineering Mathematics 2D OR **MATH2019** Engineering Mathematics 2E	**CHEM3021** Organic Chemistry: Modern Synthetic Strategies	**COMP3121** Algorithm Design and Analysis OR **COMP3821** Extended Algorithm Design and Analysis	**CEIC4007** Product Design Project Thesis A
	COMP1531 Software Engineering Fundamentals	**CEIC2000** Material and Energy Systems	**COMP2521** Data Structures and Algorithms	**Computing Elective**	**CEIC6711** Complex Fluids Microstructure and Rheology
	CHEM1811 Engineering Chemistry 1A	**CEIC2001** Fluid and Particle Mechanics			**Discipline Elective**
Term 2	**MATH1231** Mathematics 1B OR **MATH1241** Higher Mathematics 1B	**CEIC2002** Heat and Mass Transfer	**COMP2511** Object-Oriented Design and Programming	**COMP3900** Computer Science Project	**CEIC4008** Product Design Project Thesis B
	CHEM1821 Engineering Chemistry 1B	**CEIC2005** Chemical Reaction Engineering	**CEIC4000** Environment and Sustainability	**CEIC8104** Topics in Polymer Technology	*CEIC8204 Entrepreneurship and the Innovation Cycle
		CHEM2021 Organic Chemistry: Mechanisms and Biomolecules	**Computing Elective**	**Computing Elective**	**Computing Elective**

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

***Students may take CEIC8204 or ELEC4445**