

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

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

T1 Entry 2024 Sample Plan



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 1	COMP1511 Programming Fundamentals	Term 1	COMP1531 Software Engineering Fundamentals	Term 1	CEIC2000 Material and Energy Systems	Term 1	COMP3121 Algorithm Design and Analysis OR COMP3821 Extended Algorithm Design and Analysis	Term 1	CEIC4007 Product Design Project Thesis A
	CHEM1811 Engineering Chemistry 1A		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	Term 2	COMP2521 Data Structures and Algorithms	Term 2	CEIC2002 Heat and Mass Transfer	Term 2	CEIC4000 Environment and Sustainability	Term 2	CEIC4008 Product Design Project Thesis B
	MATH1131 Ⓞ 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				Disciplinary Elective
Term 3	MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B	Term 3	CHEM2031 Inorganic Chemistry: The Elements	Term 3	COMP3900 Computer Science Project	Term 3	COMP4920 Professional Issues and Ethics in Information Technology	Term 3	*ELEC4445 Entrepreneurial Engineering
	COMP1521 Computer Systems Fundamentals		MATH2089 Numerical Methods and Statistics		CEIC3001 Advanced Thermodynamics and Separation		Computing Elective		Disciplinary Elective
			DESN2000 Engineering Design and Professional Practice		COMP2511 Object-Oriented Design and Programming		Disciplinary 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.

Ⓞ Students can take MATH1131 or MATH1141 depending on term offerings

*Students may take CEIC8204 or ELEC4445



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

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Bachelor of Engineering (Honours) / Computer Science (3785)Chemical Product Engineering (CEICDH) / Computer Science (COMPA1)
T3 Entry 2024 Sample Plan

Year 1		Year 2		Year 3		Year 4		Year 5	
Term 3	COMP1511 Programming Fundamentals	Term 3	CHEM2041 Analytical Chemistry: Essential Methods	Term 3	CHEM2031 Inorganic Chemistry: The Elements	Term 3	CEIC3001 Advanced Thermodynamics and Separation	Term 3	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		Disciplinary Elective		Disciplinary Elective
Term 1	DESN1000 Introduction to Engineering Design and Innovation	Term 1	MATH2019 Engineering Mathematics 2E	Term 1	CHEM3021 Organic Chemistry: Modern Synthetic Strategies	Term 1	COMP3121 Algorithm Design and Analysis OR COMP3821 Extended Algorithm Design and Analysis	Term 1	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				Disciplinary Elective		
Term 2	MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B	Term 2	CEIC2002 Heat and Mass Transfer	Term 2	COMP2511 Object-Oriented Design and Programming	Term 2	COMP3900 Computer Science Project	Term 2	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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