



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 1	COMP1511 Programming Fundamentals	Term 1	MATH2089 Numerical Methods and Statistics	Term 1	COMP2521 Data Structures and Algorithms	Term 1	CEIC3004 Process Equipment Design	Term 1	CEIC4951 Research Thesis A
	CHEM1811 Engineering Chemistry 1A		CEIC2000 Material and Energy Systems		CEIC3000 Process Modelling and Analysis		CEIC3005 Process Plant Design		CEIC4001 Process Design Project
			CEIC2001 Fluid and Particle Mechanics						
Term 2	MATH1131 Ⓢ Mathematics 1A	Term 2	MATH2018 Ⓢ Engineering Mathematics 2D	Term 2	COMP2511 Object-Oriented Design and Programming	Term 2	CEIC3006 Process Dynamics and Control	Term 2	CEIC4952 Research Thesis B
	PHYS1121 Ⓢ Physics 1A		CEIC2002 Heat and Mass Transfer		COMP3121 Algorithm Design and Analysis <u>OR</u> COMP3821 Extended Algorithm Design and Analysis		CEIC3007 Chemical Engineering Lab B		Computing Elective
	CHEM1821 Engineering Chemistry 1B		CEIC2005 Chemical Reaction Engineering		Computing Elective		Computing Elective		Computing Elective
Term 3	DESN1000 Introduction to Engineering Design and Innovation	Term 3	CEIC2007 Chemical Engineering Lab A	Term 3	CEIC3001 Advanced Thermodynamics and Separation	Term 3	CEIC4000 Environment and Sustainability	Term 3	CEIC4953 Research Thesis C
	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B		COMP1531 Software Engineering Fundamentals		COMP3900 Computer Science Project		COMP4920 Professional Issues and Ethics in Information Technology		Discipline Elective
	COMP1521 Computer Systems Fundamentals				DESN2000 Engineering Design and Professional Practice		Breadth 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 ② Students can take PHYS1121 or PHYS1131 depending on term offerings ③ Students can take MATH2018 or MATH2019 depending on term offerings



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 2	COMP1511 Programming Fundamentals	Term 2	COMP2521 Data Structures and Algorithms	Term 2	CEIC2002 Heat and Mass Transfer	Term 2	CEIC4000 Environment and Sustainability	Term 2	CEIC4951 Research Thesis A
	CHEM1821 Engineering Chemistry 1B		COMP1531 Software Engineering Fundamentals		CEIC2005 Chemical Reaction Engineering		CEIC3006 Process Dynamics and Control		Computing Elective
Term 3	MATH1131 Mathematics 1A OR MATH1141 Higher Mathematics 1A	Term 3	DESN2000 Engineering Design and Professional Practice	Term 3	COMP4920 Professional Issues and Ethics in Information Technology	Term 3	CEIC3007 Chemical Engineering Lab B	Term 3	CEIC4952 Research Thesis B
	PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A		MATH2089 Numerical Methods and Statistics		COMP3900 Computer Science Project		Discipline Elective		Computing Elective
	DESN1000 Introduction to Engineering Design and Innovation		CEIC2007 Chemical Engineering Lab A		COMP2511 Object-Oriented Design and Programming				Computing Elective
Term 1	CHEM1811 Engineering Chemistry 1A	Term 1	CEIC2000 Material and Energy Systems	Term 1	COMP3121 Algorithm Design and Analysis OR COMP3821 Extended Algorithm Design and Analysis	Term 1	CEIC3004 Process Equipment Design	Term 1	CEIC4953 Research Thesis C
	MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B		CEIC2001 Fluid and Particle Mechanics		CEIC3000 Process Modelling and Analysis		CEIC3005 Process Plant Design		CEIC4001 Process Design Project
	COMP1521 Computer Systems Fundamentals		MATH2018 Engineering Mathematics 2D OR MATH2019 Engineering Mathematics 2E				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



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 3	COMP1511 Programming Fundamentals	Term 3	DESN1000 Introduction to Engineering Design and Innovation	Term 3	CEIC3001 Advanced Thermodynamics and Separation	Term 3	Computing Elective	Term 3	CEIC4951 Research Thesis A
	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A		MATH2089 Numerical Methods and Statistics		CEIC2007 Chemical Engineering Lab A		Computing Elective		Discipline Elective
	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A				DESN2000 Engineering Design and Professional Practice				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	CEIC3004 Process Equipment Design	Term 1	COMP3121 Algorithm Design and Analysis <u>OR</u> COMP3821 Extended Algorithm Design and Analysis	Term 1	CEIC4952 Research Thesis B
	COMP1531 Software Engineering Fundamentals		CEIC2000 Material and Energy Systems		CEIC3000 Process Modelling and Analysis		CEIC3005 Process Plant Design		CEIC4001 Process Design Project
	CHEM1811 Engineering Chemistry 1A		CEIC2001 Fluid and Particle Mechanics		COMP2511 Object-Oriented Design and Programming		COMP4920 Professional Issues and Ethics in Information Technology		
Term 2	COMP1521 Computer Systems Fundamentals	Term 2	COMP2521 Data Structures and Algorithms	Term 2	COMP3900 Computer Science Project	Term 2	CEIC3006 Process Dynamics and Control	Term 2	CEIC4953 Research Thesis C
	CHEM1821 Engineering Chemistry 1B		CEIC2002 Heat and Mass Transfer		Breadth Elective		CEIC3007 Chemical Engineering Lab B		Computing Elective
			CEIC2005 Chemical Reaction Engineering				CEIC4000 Environment and Sustainability		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