Engineering

Engineering (Honours) / Biomedical Engineering (3768)

Chemical Engineering (CEICAH)

T1 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4	Year 5
Term 1	**PHYS1121** Physics 1A OR **PHYS1131** Higher Physics 1A	**CEIC2000** Materials and Energy Systems	**CEIC3000** Process Modelling and Analysis	**CEIC4001** Process Design Project (12 UoC)	**BIOM4951** Research Thesis A (4 UoC)
	CHEM1811 Engineering Chemistry 1A	**CEIC2001** Fluid and Particle Mechanics	**CEIC3005** Process Plant Design	**CEIC3004** Process Equipment and Design	**BIOM9410** Regulatory Requirements of Biomedical Technology
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A	**PHSL2121** Principles of Physiology A	**Biomedical Engineering Course**		**Biomedical Engineering Course**
Term 2	**ENGG1811** Computing for Engineers	**CEIC2002** Heat and Mass Transfer	**CEIC3006** Process Dynamics and Control	**CEIC4000** Environment & Sustainability	**BIOM4952** Research Thesis B (4 UoC)
	CHEM1821 Engineering Chemistry 1B	**CEIC2005** Chemical Reaction Engineering	**CEIC3007** Chemical Engineering Lab B	**Biomedical Engineering Course**	**BIOM9420** Clinical Laboratory Science
	MATH1231 Mathematics 1B OR **MATH1241** Higher Mathematics 1B				**Biomedical Engineering Course**
Term 3	**DESN1000** Engineering Design & Innovation	**CEIC2007** Chemical Engineering Lab A	**CEIC3001** Advanced Thermodynamics and Separation	**BIOM9311** Mass Transfer in Medicine	**BIOM4953** Research Thesis C (4 UoC)
	MATH2018 Engineering Mathematics 2D	**DESN2000** Engineering Design and Practice	**Discipline Elective**	**Biomedical Engineering Course**	**Biomedical Engineering Course**
		MATH2089 Numerical Methods and Statistics	**Free Elective***	**Biomedical Engineering Course**	**Biomedical Engineering Course**

NOTES

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

*CEIC1000 is suggested as the free elective

This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.

Engineering

Engineering (Honours) / Biomedical Engineering (3768)

Chemical Engineering (CEICAH)

T2 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4	Year 5
Term 2	**MATH1131** Mathematics 1A	**CHEM1821** Engineering Chemistry 1B	**CEIC2002** Heat and Mass Transfer	**CEIC3006** Process Dynamics and Control	**BIOM4951** Research Thesis A (4 UoC)
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A	**MATH2018** Engineering Mathematics 2D	**CEIC2005** Chemical Reaction Engineering	**CEIC3007** Chemical Engineering Lab B	**BIOM9420** Clinical Laboratory Science
				CEIC4000 Environment & Sustainability	**Biomedical Engineering Course**
Term 3	**MATH1231** Mathematics 1B	**CEIC2007** Chemical Engineering Lab A	**CEIC3001** Advanced Thermodynamics and Separation	**BIOM9311** Mass Transfer in Medicine	**BIOM4952** Research Thesis B (4 UoC)
	ENGG1811 Computing for Engineers	**DESN2000** Engineering Design and Practice	**Biomedical Engineering Course**	**Biomedical Engineering Course**	**Biomedical Engineering Course**
	DESN1000 Engineering Design & Innovation	**MATH2089** Numerical Methods and Statistics	**Free Elective***	**Biomedical Engineering Course**	**Biomedical Engineering Course**
Term 1	**CEIC2000** Materials and Energy Systems	**PHSL2121** Principles of Physiology A	**CEIC3000** Process Modelling and Analysis	**CEIC4001** Process Design Project (12 UoC)	**BIOM4953** Research Thesis C (4 UoC)
	CEIC2001 Fluid and Particle Mechanics	**Discipline Elective**	**CEIC3004** Process Equipment and Design		**BIOM9410** Regulatory Requirements of Biomedical Technology
	CHEM1811 Engineering Chemistry 1A	**Breadth Elective**	**CEIC3005** Process Plant Design		**Biomedical Engineering Course**

NOTES

Compulsory Training Component: There is a program requirement of 60 days approved Industrial Training ENGG4999. *CEIC1000 is suggested as the free elective

Students who begin in Term 2 are permitted to enrol into CHEM1011 and CHEM1021 in place of CHEM1811/1821 or may take a combination of those courses with permission from their course convenor.

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Engineering

Engineering (Honours) / Biomedical Engineering (3768)

Chemical Engineering (CEICAH)

T3 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4	Year 5
Term 3	**ENGG1811** Computing for Engineers	**MATH2089** Numerical Methods and Statistics	**CEIC2007** Chemical Engineering Lab A	**CEIC4000** Environment & Sustainability	**BIOM4951** Research Thesis A (4 UoC)
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A	**Discipline Elective**	**DESN2000** Engineering Design and Practice	**Biomedical Engineering Course**	**BIOM9311** Mass Transfer in Medicine
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A	**Free Elective***	**CEIC3001** Advanced Thermodynamics and Separation	**Biomedical Engineering Course**	**Biomedical Engineering Course**
Term 1	**DESN1000** Engineering Design & Innovation	**CEIC2000** Materials and Energy Systems	**CEIC3000** Process Modelling and Analysis	**CEIC4001** Process Design Project (12 UoC)	**BIOM4952** Research Thesis B (4 UoC)
	CHEM1811 Engineering Chemistry 1A	**CEIC2001** Fluid and Particle Mechanics	**CEIC3004** Process Equipment and Design		**BIOM9410** Regulatory Requirements of Biomedical Technology
	MATH1231 Mathematics 1B OR **MATH1241** Higher Mathematics 1B	**PHSL2121** Principles of Physiology A	**CEIC3005** Process Plant Design		**Breadth Elective**
Term 2	**CHEM1821** Engineering Chemistry 1B	**CEIC2002** Heat and Mass Transfer	**CEIC3006** Process Dynamics and Control	**Biomedical Engineering Course**	**BIOM4953** Research Thesis C (4 UoC)
	MATH2018 Engineering Mathematics 2D	**CEIC2005** Chemical Reaction Engineering	**CEIC3007** Chemical Engineering Lab B	**Biomedical Engineering Course**	**BIOM9420** Clinical Laboratory Science
				Biomedical Engineering Course	**Biomedical Engineering Course**

NOTES

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

*CEIC1000 is suggested as the free elective

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