Engineering

Bachelor of Engineering (Honours) (3707)

Chemical Product Engineering (CEICDH)

T1 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4
Term 1	**PHYS1121** Physics 1A OR **PHYS1131** Higher Physics 1A	**CEIC2000** Materials and Energy Systems	**MATH2018** Engineering Mathematics 2D	**CEIC4007** Product Design Project Thesis A
	CHEM1811 Engineering Chemistry 1A	**CEIC2001** Fluid and Particle Mechanics	**CHEM3021** Organic Chemistry: Modern Synthetic Strategies	**CEIC6711** Complex Fluids Microstructure & Rheology
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A	**MATH2089** Numerical Methods and Statistics	**General Education Course**	**Discipline Elective Course**
Term 2	**ENGG1811** Computing for Engineers	**CEIC2002** Heat and Mass Transfer	**CEIC8104** Topics in Polymer Technology	**CEIC4008** Product Design Project Thesis B
	CHEM1821 Engineering Chemistry 1B	**CEIC2005** Chemical Reaction Engineering	**CEIC4000** Environment and Sustainability	**CEIC8204** Entrepreneurship & the Innovation Cycle
	MATH1231 Mathematics 1B OR **MATH1241** Higher Mathematics 1B	**CHEM2021** Organic Chemistry: Mechanisms & Biomolecules	**Free Elective Course**	**Discipline Elective Course**
Term 3	**DESN1000** Engineering Design & Innovation	**CHEM2031** Inorganic Chemistry: The Elements	**CEIC3001** Advanced Thermodynamics and Separation	**General Education Course**
	CHEM2041 Analytical Chemistry: Essential Methods	**DESN2000** Engineering Design and Practice	**Free Elective Course**	**Discipline Elective 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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Engineering

Bachelor of Engineering (Honours) (3707)

Chemical Product Engineering (CEICDH)

T2 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4
Term 2	**ENGG1811** Computing for Engineers	**CHEM1821** Engineering Chemistry 1B	**CEIC2002** Heat and Mass Transfer	**CEIC4008** Product Design Project Thesis B
	MATH1131 Mathematics 1A	**MATH2018** Engineering Mathematics 2D	**CHEM2021** Organic Chemistry: Mechanisms & Biomolecules	**CEIC8104** Topics in Polymer Technology
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A		**CEIC2005** Chemical Reaction Engineering	**CEIC8204** Entrepreneurship & the Innovation Cycle
Term 3	**DESN1000** Engineering Design & Innovation	**CHEM2041** Analytical Chemistry: Essential Methods	**CHEM2031** Inorganic Chemistry: The Elements	**CEIC4000** Environment and Sustainability
	MATH1231 Mathematics 1B	**DESN2000** Engineering Design and Practice	**CEIC3001** Advanced Thermodynamics and Separation	**Discipline Elective Course**
		Free Elective Course*		**Discipline Elective Course**
Term 1	**CHEM1811** Engineering Chemistry 1A	**MATH2089** Numerical Methods and Statistics	**CEIC4007** Product Design Project Thesis A	**Discipline Elective Course**
	CEIC2001 Fluid and Particle Mechanics	**Free Elective Course**	**CEIC6711** Complex Fluids Microstructure & Rheology	**General Education Course**
	CEIC2000 Materials and Energy Systems		**CHEM3021** Organic Chemistry: Modern Synthetic Strategies	

NOTES

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

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Engineering

Bachelor of Engineering (Honours) (3707)

Chemical Product Engineering (CEICDH)

T3 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4
Term 3	**MATH1131** Mathematics 1A OR **MATH1141** Higher Mathematics 1A	**CHEM2041** Analytical Chemistry: Essential Methods	**CHEM2031** Inorganic Chemistry: The Elements	**CEIC3001** Advanced Thermodynamics and Separation
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A	**MATH2089** Numerical Methods and Statistics	**DESN2000** Engineering Design and Practice	**General Education Course**
	DESN1000 Engineering Design & Innovation	**Free Elective Course***		
Term 1	**ENGG1811** Computing for Engineers	**CEIC2000** Materials and Energy Systems	**CHEM3021** Organic Chemistry: Modern Synthetic Strategies	**CEIC4007** Product Design Project Thesis A
	CHEM1811 Engineering Chemistry 1A	**CEIC2001** Fluid and Particle Mechanics	**Discipline Elective Course**	**CEIC6711** Complex Fluids Microstructure & Rheology
	MATH1231 Mathematics 1B OR **MATH1241** Higher Mathematics 1B		**General Education Course**	**Discipline Elective Course**
Term 2	**MATH2018** Engineering Mathematics 2D	**CEIC2002** Heat and Mass Transfer	**CEIC8104** Topics in Polymer Technology	**CEIC4008** Product Design Project Thesis B
	CHEM1821 Engineering Chemistry 1B	**CEIC2005** Chemical Reaction Engineering	**CEIC4000** Environment and Sustainability	**CEIC8204** Entrepreneurship & the Innovation Cycle
		CHEM2021 Organic Chemistry: Mechanisms & Biomolecules	**Free Elective Course**	**Discipline Elective 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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Engineering

Bachelor of Engineering (Honours) (3707)

Photovoltaics & Solar Energy Engineering (SOLAAH)

T1 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4
Term 1	**DESN1000** Engineering Design and Innovation	**SOLA2060** Introduction to Electronic Devices	**SOLA3507** Solar Cells	**SOLA4951** Research Thesis A
	MATH1131 Mathematics 1A OR **MATH1141** (Higher) Mathematics 1A	**MATH2089** Numerical Methods and Statistics	**Discipline Elective Course**	**ELEC4122** Strategic Leadership and Ethics
	PHYS1121 Physics 1A OR **PHYS1131** (Higher) Physics 1A	**General Education Course**	**Strand Elective Course**	**Free Elective Course**
Term 2	**ENGG1811** Computing for Engineers OR **COMP1511** Programming Fundamentals OR **COMP1911** Computing 1A	**SOLA2051** Project in Photovoltaics and Renewable Energy	**SOLA3010** Low Energy Buildings and Photovoltaics	**SOLA4952** Research Thesis B
	SOLA1070 Sustainable Energy	**MATH2018** Engineering Mathematics 2D	**SOLA3020** Photovoltaic Technology and Manufacturing	**SOLA4012** Photovoltaic Systems Design
		Strand Elective Course	**Discipline Elective Course**	**SOLA5057** Energy Efficiency
Term 3	**ELEC1111** Electrical Circuit Fundamentals	**DESN2000** Engineering Design and Professional Practice	**Discipline Elective Course**	**SOLA4953** Research Thesis C
	PHYS1221 Physics 1B OR **PHYS1231** Higher Physics 1B	**SOLA2540** Applied Photovoltaics	**Strand Elective Course**	**General Education Course**
	MATH1231 Higher Mathematics 1A			**Free Elective Course**

NOTES

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

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Engineering

Bachelor of Engineering (Honours) (3707)

Photovoltaics & Solar Energy Engineering (SOLAAH)

T2 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4
Term 2	**MATH1131** Mathematics 1A	**SOLA2051** Project in Photovoltaics and Renewable Energy	**SOLA3010** Low Energy Buildings and Photovoltaics	**SOLA4951** Research Thesis A
	PHYS1121 Physics 1A OR **PHYS1131** Higher Physics 1A	**MATH2018** Engineering Mathematics 2D	**SOLA3020** Photovoltaic Technology and Manufacturing	**SOLA4012** Photovoltaic Systems Design
	SOLA1070 Sustainable Energy	**General Education Course**	**Strand Elective Course**	**SOLA5057** Energy Efficiency
Term 3	**ELEC1111** Electrical Circuit Fundamentals	**DESN2000** Engineering Design and Professional Practice	**Strand Elective Course**	**SOLA4952** Research Thesis B
	DESN1000 Engineering Design and Innovation	**SOLA2540** Applied Photovoltaics	**Discipline Elective Course**	**Discipline Elective Course**
	ENGG1811 Computing for Engineers OR **COMP1511** Programming Fundamentals OR **COMP1911** Computing 1A	**Strand Elective Course**	**Discipline Elective Course**	**General Education Course**
Term 1	**PHYS1221** Physics 1B OR **PHYS1231** Higher Physics 1B	**SOLA2060** Introduction to Electronic Devices	**SOLA3507** Solar Cells	**SOLA4953** Research Thesis C
	MATH1231 Mathematics 1A OR **MATH1241** Higher Mathematics 1A	**MATH2089** Numerical Methods and Statistics	**Free Elective Course**	**ELEC4122** Strategic Leadership and Ethics
				Free Elective Course

NOTES

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

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Engineering

Bachelor of Engineering (Honours) (3707)

Photovoltaics & Solar Energy Engineering (SOLAAH)

T3 Entry 2025 Sample Plan

	Year 1	Year 2	Year 3	Year 4
Term 3	**ELEC1111** Electrical Circuit Fundamentals	**DESN2000** Engineering Design and Professional Practice	**Discipline Elective Course**	**SOLA4951** Research Thesis A
	PHYS1121 Physics 1 A OR **PHYS1131** Higher Physics 1A	**MATH2089** Numerical Methods and Statistics	**Discipline Elective Course**	**Discipline Elective Course**
	MATH1131 Mathematics 1A OR **MATH1141** Higher Mathematics 1A	**Free Elective Course**	**Strand Elective Course**	**General Education Course**
Term 1	**PHYS1221** Physics 1B OR **PHYS1231** Higher Physics 1B	**SOLA2060** Introduction to Electronic Devices	**SOLA3507** Solar Cells	**SOLA4952** Research Thesis B
	DESN1000 Engineering Design and Innovation	**SOLA2540** Applied Photovoltaics	**General Education Course**	**ELEC4122** Strategic Leadership and Ethics
	MATH1231 Mathematics 1B OR **MATH1241** Higher Mathematics 1B	**MATH2019** Engineering Mathematics 2E OR **MATH2018** Engineering Mathematics 2D	**Strand Elective Course**	**Free Elective Course**
Term 2	**ENGG1811** Computing for Engineers OR **COMP1511** Programming Fundamentals OR **COMP1911** Computing 1A	**SOLA2051** Project in Photovoltaics and Renewable Energy	**SOLA3010** Low Energy Buildings and Photovoltaics	**SOLA4953** Research Thesis C
	SOLA1070 Sustainable Energy	**Strand Elective Course**	**SOLA3020** Photovoltaic Technology and Manufacturing	**SOLA4012** Photovoltaic Systems Design
				SOLA5057 Energy Efficiency

NOTES

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

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