Bachelor Engineering (Honours) - 3707 - Chemical Product Engineering - CEICDH - T3 2026 Start

Program: Engineering (Honours) [3707]

Year 1 Term 3

Course or Activity	Prerequisites	Credits
DESN1000 Introduction to Engineering Design and Innovation		6
PHYS1121 or PHYS1131		6
MATH1131 or MATH1141		6

Year 2 Term 1

Course or Activity	Prerequisites	Credits
CHEM1811 Engineering Chemistry 1A		6
ENGG1811 Computing for Engineers		6
MATH1231 or MATH1241		6

Year 2 Term 2

Course or Activity	Prerequisites	Credits
CHEM1821 Engineering Chemistry 1B	CHEM1811	6
MATH2018 Engineering Mathematics 2D		6

Year 2 Term 3

Course or Activity	Prerequisites	Credits
CHEM2041 Analytical Chemistry: Essential Methods	CHEM1811, CHEM1821	6
MATH2089 Numerical Methods and Statistics		6
Free Electives		6

Year 3 Term 1

Course or Activity	Prerequisites	Credits
CEIC2000 Material and Energy Systems		6
CEIC2001 Fluid and Particle Mechanics		6
Free Electives		6

Year 3 Term 2

Course or Activity	Prerequisites	Credits
CEIC2002 Heat and Mass Transfer	CEIC2001	6

CEIC2005 Chemical Reaction Engineering	CEIC2000, MATH2089	6
CHEM2021 Organic Chemistry: Mechanisms and Biomolecules	CHEM2041	6

Year 3 Term 3

Course or Activity	Prerequisites	Credits
CHEM2031 Inorganic Chemistry: The Elements	CHEM2041	6
DESN2000 Engineering Design and Professional Practice	CEIC2000, DESN1000, CHEM1821, CEIC2001	6

Year 4 Term 1

Course or Activity	Prerequisites	Credits
CEIC3711 Sustainable Product Formulation and Development	MATH2089, CHEM1821, DESN2000	6
CHEM3021 Organic Chemistry: Modern Synthetic Strategies	CHEM2021	6
General Education		6

Year 4 Term 2

Course or Activity	Prerequisites	Credits
CEIC4000 Environment and Sustainability		6
CEIC8104 Topics in Polymer Technology	CHEM1821	6

Year 4 Term 3

Course or Activity	Prerequisites	Credits
CEIC3001 Advanced Thermodynamics and Separation	CEIC2002, CEIC2005, CEIC2000, CEIC2001	6
General Education		6

Year 5 Term 1

Course or Activity	Prerequisites	Credits
CEIC4007 Product Design Project Thesis A	CEIC8104, CHEM2031, DESN2000	6
CEIC6711 Complex Fluids Microstructure and Rheology	CHEM1821, CEIC2001	6
Discipline Electives		6
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Discipline Electives		6

Year 5 Term 2

Course or Activity	Prerequisites	Credits
CEIC4008 Product Design Project Thesis B	CEIC4007	6
ENGG4999 Industrial Training		0
Discipline Electives		6
CEIC8204 or ELEC4445		6