

Bachelor Engineering (Hons) / Computer Science 3785 - Chemical Product Eng - CEICDH - T2 2026 Start

Program: Engineering (Hons) / Comp Sci [3785]

Year 1 Term 2

Course or Activity	Prerequisites	Credits
COMP1511 Programming Fundamentals		6
<i>MATH1131 or MATH1141</i>		6
<i>PHYS1121 or PHYS1131</i>		6

Year 1 Term 3

Course or Activity	Prerequisites	Credits
<i>MATH1231 or MATH1241</i>		6
<i>COMP1521</i>		6

Year 2 Term 1

Course or Activity	Prerequisites	Credits
CHEM1811 Engineering Chemistry 1A		6
COMP1531 Software Engineering Fundamentals	COMP1511	6
DESN1000 Introduction to Engineering Design and Innovation		6

Year 2 Term 2

Course or Activity	Prerequisites	Credits
CHEM1821 Engineering Chemistry 1B	CHEM1811	6
COMP2521 Data Structures and Algorithms	COMP1511	6
MATH2089 Numerical Methods and Statistics		6

Year 2 Term 3

Course or Activity	Prerequisites	Credits
COMP2511 Object-Oriented Design and Programming	COMP2521, COMP1531	6
DESN2000 Engineering Design and Professional Practice	COMP2521, CEIC2000, DESN1000, CHEM1821, COMP1511, CEIC2001	6

Year 3 Term 1

Course or Activity	Prerequisites	Credits
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CEIC2000 Material and Energy Systems		6
CEIC2001 Fluid and Particle Mechanics		6
<i>MATH2018 or MATH2019</i>		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
CEIC3001 Advanced Thermodynamics and Separation	CEIC2002, CEIC2005, CEIC2000, CEIC2001	6
CHEM2041 Analytical Chemistry: Essential Methods	CHEM1811, CHEM1821	6
COMP3900 Computer Science Project	COMP2521, COMP1531	6

Year 4 Term 1

Course or Activity	Prerequisites	Credits
CHEM3021 Organic Chemistry: Modern Synthetic Strategies	CHEM2021	6
<i>COMP3121 or COMP3821</i>		6

Year 4 Term 2

Course or Activity	Prerequisites	Credits
CEIC4000 Environment and Sustainability		6
CEIC8104 Topics in Polymer Technology	CHEM1821	6
COMP4920 Professional Issues and Ethics in Information Technology		6

Year 4 Term 3

Course or Activity	Prerequisites	Credits
CHEM2031 Inorganic Chemistry: The Elements	CHEM2041	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
<i>Computing Electives</i>		6

Year 5 Term 2

Course or Activity	Prerequisites	Credits
CEIC4008 Product Design Project Thesis B	CEIC4007	6
<i>CEIC8204 or ELEC4445</i>		6
<i>Discipline Electives</i>		6

Year 5 Term 3

Course or Activity	Prerequisites	Credits
undefined undefined		
<i>Computing Electives</i>		6
<i>Computing Electives</i>		6

Year 6 Term 1

Course or Activity	Prerequisites	Credits
ENGG4999 Industrial Training		0
<i>Discipline Electives</i>		6
<i>Computing Electives</i>		6
<i>Computing Electives</i>		6