UNSW Co-op Program Scholarship

Sample Study Outline

Chemical Product Engineering

Program / Degree: 3707 B. Engineering (Chemical Product Engineering)

Year	Term 1	UOC	Term 2	UOC	Term 3	UOC
1st	DESN1000 Introduction to Engineering Design and Innovation CHEM1811 Engineering Chemistry 1A MATH1131 Maths 1A ***OR*** MATH1141 Higher Maths 1A	6 6 6	ENGG1811 Computing for Engineers **OR** COMP1511 Programming Fundamentals **OR** COMP1911 Computing 1A CHEM1821 Engineering Chemistry 1B MATH1231 Maths 1B ***OR*** MATH1241 Higher Maths 1B	6 6 6	CHEM2041 Analytical Chem: Essential Methods CEIC1000 Sustainable Product Engineering & Design (L1 elective) PHYS1121 Physics 1A **OR** PHYS1131 Higher Physics 1A	6 6 6
	Total UOC	18	Total UOC	18	Total UOC	18
2nd	CEIC2000 Materials & Energy Systems CEIC2001 Fluid & Particle Mechanics MATH2089 Numerical Methods & Stats	6 6 6	CEIC2002 Heat and Mass Transfer CEIC2005 Chemical Reaction Engineering CHEM2021 Organic Chem: Mech & Biomolecules	6 6 6	***ENGG4909 Co-op Industry Training 1***	**12**
	Total UOC	18	Total UOC	18	Total UOC (nominal)	12
3rd	CHEM3021 Organic Chem: Modern Synthetic Strategies **OR** CHEM3031 Inorganic Chem: Transition Metals and Complexes CHEM2041 Analytical Chemistry: Essential Methods MATH2018 Engineering Maths 2D **OR** MATH2019 Engineering Maths 2E	6 6 6	CEIC8104 Topics in Polymer Technology CEIC4000 Environment & Sustainability DESN2000 Engineering Design and Professional Practice	6 6 6	CHEM2031 Inorganic Chem: The Elements CEIC3711 Sustainable Product Formulation and Development CEIC3001 Advanced Thermodynamics and Separation	6 6 6
	Total UOC	18	Total UOC	18	Total UOC	18
4th	**ENGG4902 *Co-op Industry Training 2A***	**12**	**ENGG4903 *Co-op Industry Training 2B*** **ENGG4904 *Co-op Industry Training 3A***	**6** **6**	**ENGG4905 *Co-op Industry Training 3B***	**12**
	Total UOC (nominal)	12	Total UOC (nominal)	12	Total UOC (nominal)	12

5th	CEIC4007 Product Design Project A *CEIC6711 Complex Fluids Microstructure and Rheology* Chemical Product Engineering (CPE) Discipline Elective	6 6 6	CEIC4008 Product Design Project B CEIC8204 Entrepreneurship and the Innovation Cycle **OR** ELEC4445 Entrepreneurial Eng (in T3) CPE Elective	6 6 6	CPE Elective CPE Elective Gen Ed	6 6 6
	Total UOC	18	Total UOC	18	Total UOC	18

Notes:

UNSW calendar will move from 3-trimester model to 2-semester model in 2028 so the sample study outline from 3rd to 5th year will be subject to significant change later.

- This is a SAMPLE study outline only and can be subject to change.
- You must always take your Industry Training schedule into consideration when planning your course enrolment or other commitments (see diagram below).
- Engineering Year 1 Elective options: https://www.engineering.unsw.edu.au/study-with-us/first-year-engineering-electives-list
- Discipline Electives: a comprehensive list approved Discipline Electives can be obtained from the School.

Resources:

UNSW Handbook School Co-op

Co-op Academic Coordinator

For enrolment related questions please always contact your Co-op Academic Coordinator in the first instance:

Dr Edgar Wong edgar.wong@unsw.edu.au +612 9385 3171

When would I be on Industry Training (IT)?