MONASH University

Course progression map for commencing students

E3007 Bachelor of Engineering (Honours) and Bachelor of Science

Specialisation – Chemical Engineering; Major – Chemistry, Minor - Biochemistry

	Bachelor of Aerospace Engineering (Honours)		Bachelor of Science		
YEAR 1 Sem 1	Common First Year		CHM1011 Chemistry 1	BIO1011 Blueprints for life	
YEAR 1 Sem 2			CHM1022 Chemistry 2	BIO1022 Life on Earth	
YEAR 2 Sem 1			CHM2911 Inorganic and organic chemistry	BCH2011 Structure and function of cellular biomolecules	If two foundation units are required then overload is required for ENG1013 Engineering smart systems
YEAR 2 Sem 2	CHE2161 Mechanics of fluids	CHE2163 Heat and mass transfer	CHM2922 Spectroscopy and analytical chemistry	SCI1000 Science communication to influence change	
YEAR 3 Sem 1	CHE2164 Thermodynamics 1	CHM3930 Medicinal chemistry	CHM2951 Environmental chemistry: Water	Science elective level 2 or 3	
YEAR 3 Sem 2	CHE2162 Materials and energy balances	ENG2005 Advanced engineering mathematics	CHM3180 Materials chemistry	BCH2022 Metabolic basis of human diseases	
YEAR 4 Sem1	CHE3161 Chemistry and chemical thermodynamics	CHE3165 Separation processes	CHM3911 Advanced physical chemistry	Science elective level 2 or 3	
YEAR 4 Sem 2	CHE3166 Process design	CHE3164 Reaction engineering	CHM3972 Sustainable chemistry	Science elective level 2 or 3	
YEAR 5 Sem 1	ENG4701 Final year project A	CHE4162 Particle technology	Complete one Professional Practice domain unit	CHE3167 Transport phenomena and numerical methods	ENG0001 Continuous Professional Development (0 credit points)
YEAR 5 Sem 2	ENG4702 Final year project B	CHE4170 Design project		CHE3162 Process control	

NOTE:

It is important that you follow the course map unit sequence, as units are designed to build on prior knowledge. Taking units out of sequence can disrupt your progression and cause delays due to semester offerings and enrolment rules. CHM1011, CHM1051, CHE2161 - If you have completed one of these units as a First Year breadth study unit, it will count towards your chemical engineering study. You must still fulfil the First Year engineering breadth study requirement by completing another breadth study unit. · CHE4170 - You should not overload in the semester when undertaking this unit. · Engineering minors are not available in the Engineering double degree courses. · You are required to complete at least 420 hours of Continuous Professional Development (CPD) in order to graduate. For further information refer to the CPD webpage. · Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester. · For enrolment advice, please refer to the Course advisers webpage.

Source: *Monash University Handbook - CRICOS Provider Number: 00008C*
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