# 4634 Bachelor of Engineering (Honours) and Bachelor of Arts 2015

## Chemical engineering

technology

#### Stage One:

- Course advice is required for enrolment in stage one enrolment plan depends on the need for foundation units
- Level 2 electives may be undertaken following successful completion of 24 credit points. If a level 2 elective is undertaken at stage one, course advice is required to ensure that all engineering course requirements are met in later stages
- Students undertake a common first year and nominate their chosen specialisation through the 'branch selection' process

Core	Units (30 credit points) –	all students complete:	Foundation units	Foundation units (0 or 6 credit points)		
ENG1 ENG1 ENG1	060 Computing for engine 091 Mathematics for engi 001 Engineering design: li 002 Engineering design: cl 003 Engineering mobile a	neering ghter, faster, stronger eaner, safer, smarter	Chemistry, Physics complete one unit ENG1070 Foundat ENG1090 Foundat	Students who have not completed VCE units 3&4 of Chemistry, Physics and/or Specialist Mathematics must complete one unit from: ENG1070 Foundation chemistry ENG1090 Foundation mathematics ENG1080 Foundation physics		
			Mathematics (or e	Students who have not completed Year 12 VCE Specialist Mathematics (or equivalent) must undertake ENG1090 Foundation mathematics.		
Elective units (0 or 6 credit points)						
CHM1011 Chemistry I ENE1621 Environmental engineering ENG1021 Spatial communication in engineering ENG1051 Materials for energy and sustainability ENG1071 Chemistry for engineering ENG1081 Physics for engineering MNE1010 Introduction to mining			MEC2404 Mechan ECE2041 Telecom ECE2072 Digital sy MAE2405 Aircraft TRC2001 Introduc Free elective – car	CHE2161 Mechanics of fluids or MEC2404 Mechanics of fluids ECE2041 Telecommunications ECE2072 Digital systems MAE2405 Aircraft performance TRC2001 Introduction to systems engineering Free elective – can be taken from any faculty where prerequisites can be met		
Stage	Stage one 48 credit points (36 credit points Engineering and 12 credit points Arts					
Sem 1	Engineering stage one foundation unit <u>or</u> elective unit	Engineering stage one core unit	Engineering stage one core unit	Arts unit		
Sem 2	Engineering stage one core unit	Engineering stage one core unit	Engineering stage one core unit	Arts unit		
Stage two (54 credit points)						
Sem 1	CHE2164 Thermodynamics	CHM2735 Chemistry – principles and practice	ENG2091 Advanced engineering mathematics A	Arts unit		
Sem 2	CHE2161 Mechanics of fluids	CHE2162 Material and energy balances	CHE2163 Heat and mass transfer	Arts unit	Arts unit	
Stage three (54 credit point						
Sem 1	CHE3161 Chemistry and chemical thermodynamics	CHE3163 Sustainable processing I	Arts unit	Arts unit		
Sem 2	CHE3162 Process control	CHE3164 Reaction engineering	Arts unit	Arts unit	Arts unit	
Stage four					(48 credit points)	
Sem 1	CHE3165 Separation processes	CHE3167 Transport phenomena and numerical methods	Arts unit	Arts unit		
Sem 2	CHE3166 Process design	Arts unit	Arts unit	Arts unit		
Stage five (48 credit poi						
Sem 1	CHE4161 Engineering society	CHE4180 Chemical engi	neering project (12cp)	Arts unit		
Sem	CHE4162 Particle	CHE4170 Design project (12cp)		CHE4173		

Sustainable processing 2

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### Notes:

Students will normally expect to complete the course in five years. This is achieved by			
undertaking one additional unit per semester twice in the later stages of the degree			
Overloading is not compulsory, students may choose to complete in 5 ½ years			
Unless specified, all units are worth 6 credit points			
Bachelor of Engineering 22units x 6cp + 2 x 12cp = Total of 156 credit points			
<b>Bachelor of Arts</b> 16 units x 6cp = <b>Total of 96 credit points</b> (40 units = 252cp)			
All pre-requisite and co-requisite requirements must be undertaken in order to be able to			
enrol into a specific unit			
If MEC2404 Mechanics of fluids is completed at stage one, this unit can replace CHE2161			
Mechanics of fluids at stage two in Chemical engineering			
5 years full-time, 10 years part-time			
Time limit = 10 years. Students have ten years in which to complete this award from the			
time they commence first year. Periods of intermission are counted as part of the ten years			
www.eng.monash.edu.au/current-students/course-advice.html			
www.monash.edu/students/courses/arts/course-planning.html			
Students should follow the course requirements for the year the course was commenced			
http://monash.edu/pubs/2015handbooks/courses/index-byfaculty-eng.html			
www.eng.monash.edu.au/current-students/firstyear.html			

All information correct at publication but may be subject to change – 14 January 2015 Faculty of Engineering, Monash University

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