

4632 Bachelor of Engineering (Honours) 2015

Common First Year

Stage One: 48 credit points

- Course advice is required for enrolment in stage one – enrolment plan depends on the need for foundation units. Students attend a course information session upon enrolment which provides advice on how to enrol
- Level 2 electives available in first year may be undertaken following successful completion of 24 credit points
- Students undertake a common first year and nominate their chosen specialisation through the 'branch selection' process

Core Units (30 credit points) – all students complete:

ENG1060 Computing for engineers
 ENG1091 Mathematics for engineering
 ENG1001 Engineering design: lighter, faster, stronger
 ENG1002 Engineering design: cleaner, safer, smarter
 ENG1003 Engineering mobile apps

Foundation units (0, 6 or 12 credit points)

Students who have not completed VCE units 3&4 of Chemistry, Physics and/or Specialist Mathematics must complete one or two units from:

ENG1070 Foundation Chemistry
 ENG1090 Foundation Mathematics
 PHS1080 Foundation physics

Elective units (6, 12 or 18 credit points)

Select one elective if two foundation units are required (6 credit points).
 Select two electives if one foundation unit is required (12 credit points).
 Select three electives if no foundation units are required (18 credit points)

CHM1011 Chemistry I (Clayton) <i>or</i>	CHE2161 Mechanics of fluids <i>or</i>
CHM1051 Chemistry 1 advanced (Malaysia)	MEC2404 Mechanics of fluids
ENE1621 Environmental engineering	ECE2041 Telecommunications
ENG1021 Spatial communication in engineering	ECE2072 Digital systems
ENG1051 Materials for energy and sustainability	MAE2405 Aircraft performance
ENG1071 Chemistry for engineering	TRC2001 Introduction to systems engineering
ENG1081 Physics for engineering	Free elective – can be taken from any faculty where prerequisites can be met
MNE1010 Introduction to mining	

First year enrolment:

Sem 1				
Sem 2				

Notes:

Credit points	Unless specified, all units are worth 6 credit points Bachelor of Engineering 32 units x 6cp = Total of 192 credit points
Unit requisites	All pre-requisite and co-requisite requirements must be undertaken in order to be able to enrol into a specific unit
Duration of degree	4 years full-time, 8 years part-time
Time limit	Time limit = 8 years. Students have eight years in which to complete this award from the time they commence first year. Periods of intermission are counted as part of the eight years
Course advice	www.eng.monash.edu.au/current-students/course-advice.html First year: Faculty Course Adviser – Faculty Office, 14 Alliance Lane (building72), Clayton
Monash University handbook	Students should follow the course structure for the year the course was commenced http://monash.edu/pubs/2015handbooks/courses/index-byfaculty-eng.html
Branch Selection	www.eng.monash.edu.au/current-students/firstyear.html