4635 Bachelor of Commerce and Bachelor of Engineering (Honours) 2015

Civil engineering

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 U	Jnits (30 credit points) –	all students complete:	Foundation unit	s (0 or 6 credit points)			
ENG10 ENG10 ENG10	060 Computing for enging 091 Mathematics for eng 001 Engineering design: I 002 Engineering design: 0 003 Engineering mobile a	ineering ighter, faster, stronger :leaner, safer, smarter	Physics and/or S appropriate unit ENG1070 Found ENG1090 Found	Students who have not completed VCE units 3&4 of Chemistry, Physics and/or Specialist Mathematics must complete one appropriate unit from: ENG1070 Foundation chemistry ENG1090 Foundation mathematics ENG1080 Foundation physics			
			Mathematics (or	Students who have not completed Year 12 VCE Specialist Mathematics (or equivalent) must undertake ENG1090 Foundation mathematics.			
Electiv	ve units (0 or 6 credit poi	ints)					
CHM10 ENE16 ENG10 ENG10 ENG10	011 Chemistry I (Clayton 051 Chemistry 1 advance 21 Environmental engine 021 Spatial communicatio 051 Materials for energy 071 Chemistry for engineeri	ed (Malaysia) eering on in engineering and sustainability ering	MEC2404 Mech ECE2041 Teleco ECE2072 Digital MAE2405 Aircra TRC2001 Introdu Free elective – c	CHE2161 Mechanics of fluids <u>or</u> 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			
Stage	010 Introduction to mini	ng	<u> </u>	prerequisites can be met 48 credit points (36cp Engineering and 12cp Commerce)			
Sem 1	Engineering stage one foundation unit or Engineering stage one elective unit	Engineering stage one core unit	Engineering stage one core unit		The fact that th		
Sem 2	Engineering stage one core unit	Engineering stage one core unit	Engineering stage one core unit	Commerce unit			
Stage	two			<u> </u>	(54 credit points)		
Sem 1	CIV2206 Mechanics of solids	ENG2091 Advanced engineering mathematics A	Commerce unit	Commerce unit			
Sem 2	CIV2207 computing and water systems modeling	CIV2226 Design of concrete and masonry structures	CIV2242 Introductory geoengineering	Commerce unit	Commerce unit		
Stage	Stage three (54 credit points)						
Sem 1	CIV2225 Design of steel and timber structures	CIV2263 Water systems	Commerce unit	Commerce unit			
Sem 2	CIV2282 Transport and traffic engineering	CIV3247 Geomechanics II	Commerce unit	Commerce unit	Commerce unit		
Stage					(48 credit points)		
Sem 1	CIV3205 Project management for civil engineers	CIV3221 Building structures and technology	CIV3248 Groundwater and environmental geomechanics	Commerce unit			
Sem 2	CIV3204 Engineering investigation	CIV3222 Bridge design and assessment	CIV3283 Road engineering	Commerce unit			
Stage five (48 credit point							
Sem 1	CIV4210 Project A	Civil engineering elective from list below	CIV3264 Urban water and wastewater systems	Commerce unit			
Sem 2	CIV4212 Civil engineering practice	Civil engineering elective from list	Commerce unit	Commerce unit			

below

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Civil Engineering elective units:	
CIV3203 Civil engineering construction	CIV4261 Integrated urban water management
CIV4211 Project B*	CIV4268 Water resources management
CIV4234 Advanced structural analysis	CIV4283 transport planning
CIV4235 Advanced structural design	CIV4284 transport systems
CIV4248 Ground hazards engineering	ENG4700 Engineering technology for biomedical imaging and
CIV4249 Foundation engineering	sensing
*Subject to departmental approval	

Notes:

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Overloading	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.			
Credit points	Unless specified, all units are worth 6 credit points			
	Bachelor of Engineering 26 units x 6cp = Total of 156 credit points			
	Bachelor of Commerce 16 units x 6cp = Total of 96 credit points (42 units = 252cp)			
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	on of degree 5 years full-time, 10 years part-time			
Time limit	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.			
Course advice	www.eng.monash.edu.au/current-students/course-advice.html			
	www.buseco.monash.edu.au/student/			
Monash University handbook	Students should follow the course requirements for the year the degree was commenced			
Wienash Chiversity Handbook	www.monash.edu.au/pubs/2015handbooks/courses/index-byfaculty-eng.html			
Branch Selection	www.eng.monash.edu.au/current-students/firstyear.html			
Dianen Scicetion	www.eng.monasmead.adyearrene stadents/mstyear.mtm			

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

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