4633 Bachelor of Engineering (Honours) and Bachelor of Architectural Design 2015

Civil Engineering

Stage one foundation units (0 or 6 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 ENG1080 Foundation physics	*Students who have not completed Year 12 VCE Specialist Mathematics (or equivalent) must undertake ENG1090 Foundation mathematics.*
Stage two elective units (0 or 6 credit points)	
CHM1011 Chemistry I ENE1621 Environmental engineering ENG1021 Spatial communication in engineering ENG1071 Chemistry for engineering ENG1081 Physics for engineering MNE1010 Introduction to mining	CHE2161 Mechanics of fluids *or* MEC2404 Mechanics of fluids ECE2041 Telecommunications ECE2072 Digital systems MAE2405 Aircraft performance Free elective – can be taken from any faculty where prerequisites can be met

Stage one **(48 credit points)**

Sem 1	AHT1101 Intro to visual culture in art design and architecture	ARC1001 Foundation studio 1 (12 cp)	DWG1201 Drawing 1 and OHS Intro to art and design health and safety (0cp)
Sem 2	ARC1301 Architecture communications 2	ARC1002 Foundation studio 2 (12cp)	ENG1001 Engineering design: lighter, faster, stronger

Stage two **(48 credit points)**

Sem 1	CIV2206 Mechanics of solids	CIV2225 Design of steel and timber structures	CIV2263 Water systems	Foundation unit or ENG1091 Maths for Engineering
Sem 2	CIV2207 computing and water systems modeling	CIV2226 Design of concrete and masonry structures	CIV2282 Transport and traffic engineering	Stage two elective or ENG1091 Maths for Engineering if not already completed

Stage three **(60 credit points)**

Sem 1	ARC2001 Architecture design studio 3 (12cp)	ARC2301 Architecture communications 3	ARC2401 Contemporary architecture	ENG1060 Computing for engineers
Sem 2	ARC2002 Architecture design studio 4 (12cp)	ARC2402 19th and 20th century architecture	ENG2091 Advanced engineering maths A	CIV2242 Introductory geoengineering

Stage four **(48 credit points)**

Sem 1	CIV3205 Project management for civil engineers	CIV3221 Building structures and technology	CIV3248 Groundwater and environmental geomechanics	CIV3264 Urban water and wastewater systems
Sem 2	CIV3204 Engineering investigation	CIV3222 Bridge design and assessment	CIV3247 Geomechanics II	CIV3283 Road engineering

Stage five **(48 credit points)**

Sem 1	ARC3001 Architecture design studio 5 (12cp)	CIV4210 Project A	Civil engineering elective from list below
Sem 2	ARC3002 Architecture design studio 6 (12cp)	ARC3401 Architecture and the city	CIV4212 Civil engineering practice 4

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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 sensing
CIV4249 Foundation engineering	

Notes:

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** 23 units x 6cp = **Total of 138 credit points** **Bachelor of Architectural Design** 19 units x 6cp = **Total of 114 credit points (Total 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	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.
Course advice	www.eng.monash.edu.au/current-students/course-advice.html www.artdes.monash.edu.au/students/#!/students/advice.php
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

All information correct at publication but may be subject to change – 14 January 2015
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