4644 Bachelor of Environmental Engineering (Honours) and Bachelor of **Arts 2015**

Environmental Engineering

Stage one:

48 credit points (36 credit point Engineering and 12 credit points Arts)

- Course advice is required for enrolment in stage one enrolment plan depends on the need for a foundation unit

assessment and management systems

6 point stream

not already

completed

elective or ENE2503 if

ENE3606 the air

environment

	2 electives may be undertents undertake a common	_					
Core U	nits (36 credit points) – al	l students complete:	Foundation units (0 c	or 6 credit points)			
BIO2040 Conservation biology ENE1621 Environmental engineering ENG1001 Engineering design: lighter, faster, stronger ENG1002 Engineering design: cleaner, safer, smarter ENG1060 Computing for engineers ENG1091 Mathematics for engineering			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 unit 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	one				(48 credit points		
Sem 1	ENE1621 Environmental engineering	ENG1001 Engineering design: lighter, faster, stronger <u>or</u> a foundation unit if required	Engineering stage one core unit	Arts unit			
Sem 2	BIO2040 Conservation biology	Engineering stage one core unit	Engineering stage one core unit	Arts unit			
Stage		(54 credit points)					
Sem 1	ATS2548 Environmental policy and manageme3nt	BIO2011 Ecology and biodiversity	Arts unit	Arts unit			
Sem 2	ENE2503 Materials properties and recycling or ENG1001 if not completed at stage one	ENG2091 Advanced engineering mathematics A	Arts unit	Arts unit	Arts unit		
Stage three (54 credit po							
Sem 1	CHE2164 Thermodynamics I	CIV2263 Water systems	Arts unit	Arts unit			
Sem 2	CHE2162 Material and energy balances	CIV2282 transport and traffic engineering	Arts unit	Arts unit	Arts unit		
Stage	four				(48 credit points)		
Sem 1	CIV3248 Groundwater and environmental geomechanics	CIV3264 Urban water and wastewater systems	ECC2800 Prosperity, poverty and sustainability in a globalised world	Arts unit			
Sem 2	BTC3100 Sustainability and the law	Arts unit	Arts unit	Arts unit			
Stage five (48 credit points)							
Sem 1	ENE3048 Energy and the environment	ENE3608 Environmental impact	6 point stream core unit	6 point stream core unit			

ENE4607

assessment

Environmental risk

6 point stream

core unit

4644 Bachelor of Environmental Engineering (Honours) and Bachelor of Arts 2015

Stream core and elective units:

Students complete core units comprising topics, project and design elements, and elective/s (if required) in one of the available streams

(a) Water and land management or (b) Transport and the built environment

Stream core units – all students complete the following units undertaking topics from within their chosen stream:

CIV3205 Project management for civil engineers

ENE4603 Environmental project A

ENE4212 Environmental design

Students who were not required to complete a foundation unit at level one complete one stream elective unit from below:

Water and land management electives:	Transport and the built environment electives:
CIV2207 Computer and water systems modelling	CIV2206 Mechanics of solids
CIV3204 Engineering investigations	CIV2225 Design of steel and timber structures
CIV3247 Geomechanics II	CIV2226 Design of concrete and masonry structures
CIV4248 Ground hazards and environmental geomechanics	CIV3221 Building structures and technology
CIV4261 Integrated urban water management	CIV3247 Geomechanics Ii
CIV4268 Water resources management	CIV3283 Road engineering
	CIV4234 Advanced structural analysis
	CIV4235 Advanced structural design
	CIV4249 Foundation engineering
	CIV4283 Transport planning
	CIV4284 Transport systems
	MTE4593 Materials and environment
	MTE4599 Materials for energy technologies

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.		
Unit requisites	All pre-requisite and co-requisite requirements must be undertaken in order to be able to		
	enrol into a specific unit		
Credit points	Unless specified, all units are worth 6 credit points		
	Bachelor of Environmental Engineering 26 units x 6cp = Total of 156 credit points		
	Bachelor of Arts 16 units x 6cp = Total of 96 credit points		
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.monash.edu/students/courses/arts/course-planning.html		
Monash University handbook	Students should follow the course requirements for the year the course was commenced		
monasii Omversity nanabook	http://monash.edu/pubs/2015handbooks/courses/index-byfaculty-eng.html		
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All information correct at publication but may be subject to change – 14 January 2015 Faculty of Engineering, Monash University CRICOS code 075587C