SUSTAINABILITY ENGINEERING, TESTAMUR MAJOR (T129)

Western Sydney University Major Code: T129

Previous Code: MT3050.1

Available to students in other Western Sydney University programs?

No

Engineers are leaders in developing novel approaches to solving the biggest challenges faced by environmental and interrelated systems. In this Major, students assess the impact of industrial development then propose design solutions using holistic, futuristic and sustainable technologies and strategies. Through hands-on, real-life projects, students explore solutions that integrate technical, technological (IoT), social, cultural, geographical, regulatory and ethical factors particularly in relation to water, air and land. This major will benefit students aiming for careers such as Environmental Engineer/Scientist/Consultant, Natural Resources Manager, Waste Engineer/Manger/ Consultant, and Sustainability Engineer/ Manager/ Consultant. All students complete a mandatory industrial placement.

Location

•			Sele
Campus	Mode	Advice	N
Parramatta Campus - Victoria Road	Internal	Program Advice (edbe@westernsydney.ed	lu .aa,
Parramatta City Campus-Macquarie Street	Internal	Program Advice (edbe@westernsydney.ed	du.ad) Autu
Penrith Campus	Internal	Program Advice	CIVL
		(edbe@westernsydney.ed	du@IW)L

Recommended Sequence 2022-23

If you commenced in 2024 or later please refer to the Sequence 2024 tab for details.

This major is included in Bachelor of Engineering Science, Bachelor of Engineering (Honours), Bachelor of Engineering Advanced (Honours) and Bachelor of Engineering (Honours)/Bachelor of Business.

Please follow the recommended sequence for your course as noted below.

Select the link for your program below to see details of the major

Bachelor of Engineering (Honours)

Qualification for this award requires the successful completion of 320 credit points, which include the subjects listed in the recommended sequence below.

* All students undertaking the Bachelor of Engineering (Honours) are required to enrol in MATH 1021 Mathematics for Engineers Preliminary and undertake a readiness test at the beginning of their study.

The readiness test will be conducted at the beginning of the first semester of enrolment and the result will be used to determine whether a student will remain in MATH 1021 Mathematics for Engineers Preliminary or be transferred by the School to MATH 1016 Mathematics for Engineers 1.

Students remaining in MATH 1021 Mathematics for Engineers
Preliminary will be required to complete MATH 1016 Mathematics
for Engineers 1 during second semester and will be encouraged to
complete MATH 1019 Mathematics for Engineers 2 during the Summer
session

Start-year intake

Industrial Experience

Start-year intal	(e	
Course	Title	Credit Points
Year 1		
Autumn session		
ENGR 1011	Engineering Physics	10
ENGR 1050	Sustainable Engineering Fundamentals	10
ENGR 1024	Introduction to Engineering Practice	10
Select one of the fo	llowing:	10
MATH 1021	Mathematics for Engineers Preliminary	
MATH 1016	Mathematics for Engineers 1	
	Credit Points	40
Spring session		
ENGR 1018	Fundamentals of Mechanics	10
ELEC 1003	Electrical Fundamentals	10
Select one elective		10
Elective can be	any Level for Year 1 Elective	
Select one of the fo	llowing:	10
MATH 1016	Mathematics for Engineers 1	
MATH 1019	Mathematics for Engineers 2	
U .aa,	Credit Points	40
u.au) 2		
Autumn session		
CIVL 1001	Surveying for Engineers	10
u (a)(v))L 2003	Fluid Mechanics	10
ELEC 1006	Engineering Computing	10
EART 2001	Climate Change Science	10
	Credit Points	40
Spring session		
CIVL 3011	Hydraulics	10
ENGR 2032	Sustainability Analysis and Design	10
CIVL 2018	Water Supply Systems Design	10
Select one elective		10
Elective must be	e Level 2 or higher	
	Credit Points	40
Year 3		
Autumn session CIVL 4017	Court and Water Hooding In the	10
	Surface Water Hydrology	
PROC 2003	Materials Selection and Design	10
ENVL 3005	Planning the City: Development, Community and Systems	10
One Alternate Subje	ect	10
	Credit Points	40
Spring session		
ELEC 3010	Renewable Energy Systems Design	10
CIVL 3020	Sustainable Waste Engineering	10
CIVL 3019	Wastewater Systems Design	10
One Alternate Subje	ect	10

ENGR 3017	Industrial Experience (Engineering)	0
	Credit Points	40
Year 4		
Autumn session		
ENGR 4025	Final Year Project 1 (UG Engineering)	10
ENGR 4034	Climate Smart Engineering	10
One Alternate Su	bject	10
Select one elective	ve	10
Elective subj	ect must be Level 2 or higher	

	Credit Points	40
Spring session		
ENGR 4035	Smart and Liveable Cities	10
ENGR 4026	Final Year Project 2 (UG Engineering)	10
One Alternate Sub	pject	10
Select one elective	e	10
 Elective subje 	cts must be Level 2 or higher	

Credit Points	40
Total Credit Points	320

Alternate Subjects

Subject	Title	Credit Points
PROC 4001	Advanced Materials Topics	10
PROC 4002	Engineering Materials from Waste	10
PROC 1008	Introduction to Materials Engineering	10
PROC 3008	Materials Processing and Applications	10
Modern Digital De	esign and Development (not yet available)	10
Digital Manufactu	uring and IIoT (not yet available)	10
Design for Advan	ced Manufacturing (not yet available)	10
HUMN 1013	Contextualising Indigenous Australia (Day Mod	de) 10
Only three subjec	ts may be chosen from the following	
CEDS 3001	Bridging the Gap: Re-engaging Indigenous Learners	10
PERF 2011	From Corroborees to Curtain Raisers (Day Moo	le) 10
VISU 2003	From Ochre to Acrylics to New Technologies	10
HUMN 1058	Indigenous Landscapes	10
WELF 3008	Learning through Indigenous Australian Community Service (Day Mode)	10
HUMN 2038	Pigments of the Imagination	10
HUMN 2048	Revaluing Indigenous Economics (Day Mode)	10
HUMN 3070	Rethinking Research with Indigenous Australians: Independent Study Project (Day Mode)	10
HUMN 3082	The Making of the 'Aborigines'	10

Alternate subjects may be used to complete one of the minors listed below.

Indigenous Australian Studies, Minor (https://

hbook.westernsydney.edu.au/majors-minors/indigenous-australianstudies-minor/)

Materials Engineering, Minor (https://hbook.westernsydney.edu.au/ majors-minors/materials-engineering-minor/)

Advanced Manufacturing, Minor (https://hbook.westernsydney.edu.au/ majors-minors/advanced-manufacturing-minor/)

Equivalent Subjects

The subjects listed below count towards completion of this program for students who passed these subjects in Autumn 2022 or earlier.

ENGR 1008 - Engineering Materials, replaced by PROC 1008 -Introduction to Materials Engineering

Industrial Experience

Mid-year intake	2	
Course	Title	Credit Points
Year 1		
Spring session		
Select one of the fo	llowing:	10
MATH 1021	Mathematics for Engineers Preliminary	
MATH 1016	Mathematics for Engineers 1	
ENGR 1018	Fundamentals of Mechanics	10
ELEC 1003	Electrical Fundamentals	10
ENGR 1024	Introduction to Engineering Practice	10
	Credit Points	40
Autumn session		
Select one of the fo	llowing:	10
MATH 1016	Mathematics for Engineers 1	
MATH 1019	Mathematics for Engineers 2	
CIVL 2003	Fluid Mechanics	10
ENGR 1011	Engineering Physics	10
ENGR 1050	Sustainable Engineering Fundamentals	10
	Credit Points	40
Year 2		
Spring session		
ENGR 2032	Sustainability Analysis and Design	10
CIVL 2018	Water Supply Systems Design	10
CIVL 3011	Hydraulics	10
Select one elective		10
Elective unit mu	ust be Level 2 or higher	
	Credit Points	40
Autumn session		
CIVL 1001	Surveying for Engineers	10
EART 2001	Climate Change Science	10
ELEC 1006	Engineering Computing	10
Select one elective		10
Elective unit mu	ust be Level 2 or higher	
	Credit Points	40
Year 3		
Spring session		
ELEC 3010	Renewable Energy Systems Design	10
CIVL 3020	Sustainable Waste Engineering	10
CIVL 3019	Wastewater Systems Design	10
One alternate subje	ct	10
	Credit Points	40
Autumn session		
CIVL 4017	Surface Water Hydrology	10
PROC 2003	Materials Selection and Design	10
ENVL 3005	Planning the City: Development, Community and Systems	10
One alternate subje		10
		. 0

ENGR 3017	Industrial Experience (Engineering)	0
	Credit Points	40
Year 4		
Spring session		
ENGR 4025	Final Year Project 1 (UG Engineering)	10
ENGR 4035	Smart and Liveable Cities	10
Select one elective		10
One alternate subje	ct	10
 Elective unit mu 	ust be Level 2 or higher	
	Credit Points	40

	Credit Points	40
Autumn session		
ENGR 4026	Final Year Project 2 (UG Engineering)	10
ENGR 4034	Climate Smart Engineering	10
Select one electi	ve	10
One alternate su	bject	10
Elective unit	must be Level 2 or higher	

Credit Points

Total Credit Points

Alternate Subjects

Subject	Title	Credit Points
PROC 4001	Advanced Materials Topics	10
PROC 4002	Engineering Materials from Waste	10
PROC 1008	Introduction to Materials Engineering	10
PROC 3008	Materials Processing and Applications	10
Modern Digital D	esign and Development (not yet available)	10
Digital Manufact	uring and IIoT (not yet available)	10
Design for Advan	nced Manufacturing (not yet available)	10
HUMN 1013	Contextualising Indigenous Australia (Day Mod	de) 10
Only three subject	cts may be chosen from the following	
CEDS 3001	Bridging the Gap: Re-engaging Indigenous Learners	10
PERF 2011	From Corroborees to Curtain Raisers (Day Moo	le) 10
VISU 2003	From Ochre to Acrylics to New Technologies	10
HUMN 1058	Indigenous Landscapes	10
WELF 3008	Learning through Indigenous Australian Community Service (Day Mode)	10
HUMN 2038	Pigments of the Imagination	10
HUMN 2048	Revaluing Indigenous Economics (Day Mode)	10
HUMN 3070	Rethinking Research with Indigenous Australians: Independent Study Project (Day Mode)	10
HUMN 3082	The Making of the 'Aborigines'	10

Alternate subjects may be used to complete one of the minors listed below.

Indigenous Australian Studies, Minor (https://

hbook.westernsydney.edu.au/majors-minors/indigenous-australian-studies-minor/)

Materials Engineering, Minor (https://hbook.westernsydney.edu.au/majors-minors/materials-engineering-minor/)

Advanced Manufacturing, Minor (https://hbook.westernsydney.edu.au/majors-minors/advanced-manufacturing-minor/)

Equivalent Subjects

The subjects listed below count towards completion of this program for students who passed these subjects in Autumn 2022 or earlier.

ENGR 1008 - Engineering Materials, replaced by PROC 1008 - Introduction to Materials Engineering

Bachelor of Engineering Advanced (Honours)

Qualification for this award requires the successful completion of 320 credit points, which include the subjects listed in the recommended sequence below.

Start-year intake

40

320

Course	Title	Credit Points
Year 1		
Autumn session		
MATH 1034	Mathematics for Engineers 1 (Advanced)	10
ENGR 1024	Introduction to Engineering Practice	10
ENGR 1047	Advanced Engineering Physics 1	10
ENGR 1050	Sustainable Engineering Fundamentals	10
	Credit Points	40
Spring session		
MATH 1035	Mathematics for Engineers 2 (Advanced)	10
ENGR 1018	Fundamentals of Mechanics	10
ELEC 1003	Electrical Fundamentals	10
Select one elective		10
Elective can be a	any Level for Year 1	
	Credit Points	40
Year 2		
Autumn session		
CIVL 1001	Surveying for Engineers	10
CIVL 2003	Fluid Mechanics	10
ENGR 1045	Engineering Programming Fundamentals	10
EART 2001	Climate Change Science	10
	Credit Points	40
Spring session		
CIVL 3011	Hydraulics	10
ENGR 2032	Sustainability Analysis and Design	10
CIVL 2018	Water Supply Systems Design	10
Select one elective		10
 Electives must b 	e Level 2 or higher	

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Students who fail to maintain a minimum GPA of 5.0 at the end of completion of 160 Credit Points, and again at the completion of 200 Credit points will be automatically transferred to the B. Engineering (Honours) (3740) program.

	Credit Points	40
Year 3		
Autumn session		
CIVL 4017	Surface Water Hydrology	10
PROC 2003	Materials Selection and Design	10
ENVL 3005	Planning the City: Development, Community and Systems	10
One Alternate Su	ubject	10
	Credit Points	40

Spring session		
ELEC 3010	Renewable Energy Systems Design	10
CIVL 3020	Sustainable Waste Engineering	10
CIVL 3019	Wastewater Systems Design	10
One Alternate Su	bject	10
Industrial Experi	ence	
ENGR 3017	Industrial Experience (Engineering)	0
	Credit Points	40
Year 4		
Autumn session		
ENGR 4037	Advanced Engineering Thesis 1: Preliminary Investigations	10
ENGR 4034	Climate Smart Engineering	10
One Alternate Su	bject	10
Select one electi	ve	10
Elective unit	must be Level 2 or higher	
	Credit Points	40
Spring session		
ENGR 4036	Advanced Engineering Thesis 2: Detailed Investigations	10
ENGR 4035	Smart and Liveable Cities	10
One Alternate su	bject	10
Select one electi	ve	10
Elective subj	ects must be Level 2 or higher	
	Credit Points	40
	Total Credit Points	320

Alternate Subjects

Subject	Title	Credit Points
PROC 4001	Advanced Materials Topics	10
PROC 4002	Engineering Materials from Waste	10
PROC 1008	Introduction to Materials Engineering	10
PROC 3008	Materials Processing and Applications	10
Modern Digital D	esign and Development (not yet available)	10
Digital Manufact	curing and IIoT (not yet available)	10
Design for Advar	nced Manufacturing (not yet available)	10
HUMN 1013	Contextualising Indigenous Australia (Day Mod	e) 10
Only three subject	cts may be chosen from the following	
CEDS 3001	Bridging the Gap: Re-engaging Indigenous Learners	10
PERF 2011	From Corroborees to Curtain Raisers (Day Mod	e) 10
VISU 2003	From Ochre to Acrylics to New Technologies	10
HUMN 1058	Indigenous Landscapes	10
WELF 3008	Learning through Indigenous Australian Community Service (Day Mode)	10
HUMN 2038	Pigments of the Imagination	10
HUMN 2048	Revaluing Indigenous Economics (Day Mode)	10
HUMN 3070	Rethinking Research with Indigenous Australians: Independent Study Project (Day Mode)	10
HUMN 3082	The Making of the 'Aborigines'	10

Alternate subjects may be used to complete one of the minors listed below.

Indigenous Australian Studies, Minor (https://

hbook.westernsydney.edu.au/majors-minors/indigenous-australianstudies-minor/)

Materials Engineering, Minor (https://hbook.westernsydney.edu.au/ majors-minors/materials-engineering-minor/)

Advanced Manufacturing, Minor (https://hbook.westernsydney.edu.au/ majors-minors/advanced-manufacturing-minor/)

Equivalent Subjects

The subjects listed below count towards completion of this program for students who passed these subjects in 2021 or earlier.

MECH 4005 Advanced Engineering Thesis 1: Preliminary Investigations, replaced by ENGR 4037 Advanced Engineering Thesis 1: Preliminary Investigations

MECH 4006 Advanced Engineering Thesis 2: Detailed Investigations, replaced by ENGR 4036 Advanced Engineering Thesis 2: **Detailed Investigations**

The subjects listed below count towards completion of this program for students who passed these subjects in Autumn 2022 or earlier.

ENGR 1008 - Engineering Materials, replaced by PROC 1008 -Introduction to Materials Engineering

Mid-vear intake

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Course	Title	Credit Points
Year 1		
Spring session		
MATH 1034	Mathematics for Engineers 1 (Advanced)	10
ENGR 1018	Fundamentals of Mechanics	10
ELEC 1003	Electrical Fundamentals	10
ENGR 1024	Introduction to Engineering Practice	10
	Credit Points	40
Autumn session		
MATH 1035	Mathematics for Engineers 2 (Advanced)	10
CIVL 2003	Fluid Mechanics	10
ENGR 1047	Advanced Engineering Physics 1	10
ENGR 1050	Sustainable Engineering Fundamentals	10
	Credit Points	40
Year 2		
Spring session		
ENGR 2032	Sustainability Analysis and Design	10
CIVL 2018	Water Supply Systems Design	10
CIVL 3011	CIVL 3011 Hydraulics	
Select one elective		10
Elective must be	Level 2 or higher	
	Credit Points	40
Autumn session		
CIVL 1001	Surveying for Engineers	10
EART 2001	Climate Change Science	10
ELEC 1006	Engineering Computing	10
Select one elective		10
Elective must be	Level 2 or higher	

Students who fail to maintain a minimum GPA of 5.0 at the end of completion of 160 Credit Points, and again at the completion of 200 Credit points will be automatically transferred to the B. Engineering (Honours) (3740) program.

	Credit Points	40
Year 3		
Spring session		
ELEC 3010	Renewable Energy Systems Design	10
CIVL 3020	Sustainable Waste Engineering	10
CIVL 3019	Wastewater Systems Design	10
One alternate sub	vject	10
	Credit Points	40
Autumn session		
CIVL 4017	Surface Water Hydrology	10
PROC 2003	Materials Selection and Design	10
ENVL 3005	Planning the City: Development, Community and Systems	10
One alternate sub	vject	10
Industrial Experie	nce	
ENGR 3017	Industrial Experience (Engineering)	0
	Credit Points	40
Year 4		
Spring session		
ENGR 4037	Advanced Engineering Thesis 1: Preliminary Investigations	10
ENGR 4035	Smart and Liveable Cities	10
One alternate sub	vject	10
Select one electiv	re	10
Elective must	be Level 2 or higher	
	Credit Points	40
Autumn session		
ENGR 4036	Advanced Engineering Thesis 2: Detailed Investigations	10
ENGR 4034	Climate Smart Engineering	10
One alternate sub	oject	10
Select one electiv	re	10
Elective must	be Level 2 or higher	
	Credit Points	40
	Total Credit Points	320

Alternate	a Cuh	IACTC
Aiteillat	c Jub	ICULO

	Subject		Credit Points	
	PROC 4001	Advanced Materials Topics	10	
	PROC 4002	Engineering Materials from Waste	10	
	PROC 1008	Introduction to Materials Engineering	10	
	PROC 3008	Materials Processing and Applications	10	
	Modern Digital De	esign and Development (not yet available)	10	
Digital Manufacturing and IIoT (not yet available)				
	Design for Advanced Manufacturing (not yet available)			
	HUMN 1013	Contextualising Indigenous Australia (Day Mode	e) 10	
Only three subjects may be chosen from the following				
	CEDS 3001	Bridging the Gap: Re-engaging Indigenous Learners	10	
	PERF 2011	From Corroborees to Curtain Raisers (Day Mode	10	
	VISU 2003	From Ochre to Acrylics to New Technologies	10	

HUMN 1058	Indigenous Landscapes	10
WELF 3008	Learning through Indigenous Australian Community Service (Day Mode)	10
HUMN 2038	Pigments of the Imagination	10
HUMN 2048	Revaluing Indigenous Economics (Day Mode)	10
HUMN 3070	Rethinking Research with Indigenous Australians: Independent Study Project (Day Mode)	10
HUMN 3082	The Making of the 'Aborigines'	10

Alternate subjects may be used to complete one of the minors listed below.

Indigenous Australian Studies, Minor (https://

hbook.westernsydney.edu.au/majors-minors/indigenous-australian-studies-minor/)

Materials Engineering, Minor (https://hbook.westernsydney.edu.au/majors-minors/materials-engineering-minor/)

Advanced Manufacturing, Minor (https://hbook.westernsydney.edu.au/majors-minors/advanced-manufacturing-minor/)

Equivalent Subjects

The subjects listed below count towards completion of this program for students who passed these subjects in 2021 or earlier.

MECH 4005 Advanced Engineering Thesis 1: Preliminary Investigations, replaced by ENGR 4037 Advanced Engineering Thesis 1: Preliminary Investigations

MECH 4006 Advanced Engineering Thesis 2: Detailed Investigations, replaced by ENGR 4036 Advanced Engineering Thesis 2: Detailed Investigations

The subjects listed below count towards completion of this program for students who passed these subjects in Autumn 2022 or earlier.

ENGR 1008 - Engineering Materials, replaced by PROC 1008 - Introduction to Materials Engineering

Bachelor of Engineering (Honours)/ Bachelor of Business (3728)

Qualification for this award requires the successful completion of 400 credit points, which include the subjects listed in the recommended sequence below.

Start-vear intake

otal Cycar Intalic				
Course	Title	Credit Points		
Year 1				
Autumn session				
MATH 1016	Mathematics for Engineers 1	10		
ENGR 1011	Engineering Physics	10		
BBus Core Subject 1		10		
BBus Core Subject 2	2	10		
	Credit Points	40		
Spring session				
MATH 1019	Mathematics for Engineers 2	10		
ENGR 1018	Fundamentals of Mechanics	10		
BBus Core Subject 3	}	10		
BBus Core Subject 4	ļ	10		
	Credit Points	40		

Year 2			ENGR 3017	Industrial Experience (Engineering)
Autumn session				Credit Points
ENGR 1050	Sustainable Engineering Fundamentals	10		Total Credit Points
BBus Professional	, , , , , , , , , , , , , , , , , , ,	10		Total Great Folits
BBus Professional	-	10	Mid-year intake	
BBus Major Subject	-	10	Course	Title
	Credit Points	40		
Spring session	0.00.00		Year 1	
CIVL 3020	Sustainable Waste Engineering	10	Spring session	
ELEC 1003	Electrical Fundamentals	10	MATH 1016	Mathematics for Engineers 1
BBus Major Subject		10	ENGR 1018	Fundamentals of Mechanics
BBus Major Subject		10	BBus Core Subject 1	
	Credit Points	40	BBus Core Subject 2	
Year 3				Credit Points
Autumn session			Autumn session	
CIVL 1001	Surveying for Engineers	10	MATH 1019	Mathematics for Engineers 2
CIVL 2003	Fluid Mechanics	10	ENGR 1011	Engineering Physics
ELEC 1006	Engineering Computing	10	BBus Core Subject 3	
EART 2001	Climate Change Science	10	BBus Core Subject 4	
2 2001	Credit Points	40		Credit Points
Spring session	oreant remite		Year 2	
CIVL 3011	Hydraulics	10	Spring session	
ENGR 2032	Sustainability Analysis and Design	10	ENGR 2032	Sustainability Analysis and Design
CIVL 2018	Water Supply Systems Design	10	ELEC 1003	Electrical Fundamentals
CIVL 3019	Wastewater Systems Design	10	BBus Major Subject	1
017 2 30 1 3	Credit Points	40	BBus Major Subject	2
Year 4	Great Foints	40		Credit Points
Autumn session			Autumn session	
CIVL 4017	Surface Water Hydrology	10	CIVL 2003	Fluid Mechanics
ENVL 3005	Planning the City: Development,	10	ENGR 1050	Sustainable Engineering Fundamentals
	Community and Systems		BBus Professional S	ubject 1
PROC 2003	Materials Selection and Design	10	BBus Major Subject	3
BBus Major Subjec	et 4	10		Credit Points
	Credit Points	40	Year 3	
Spring session			Spring session	
ELEC 3010	Renewable Energy Systems Design	10	ELEC 3010	Renewable Energy Systems Design
BBus Major Subjec		10	CIVL 3011	Hydraulics
BBus Major Subject		10	CIVL 2018	Water Supply Systems Design
BBus Major Subject		10	CIVL 3019	Wastewater Systems Design
	Credit Points	40		Credit Points
Year 5			Autumn session	
Autumn session			ELEC 1006	Engineering Computing
ENGR 4025	Final Year Project 1 (UG Engineering)	10	EART 2001	Climate Change Science
ENGR 4034	Climate Smart Engineering	10	CIVL 1001	Surveying for Engineers
BBus Professional	Subject 3	10	BBus Professional S	ubject 2
BBus Major Subject	et 8	10		Credit Points
	Credit Points	40	Year 4	
Spring session			Spring session	
ENGR 4026	Final Year Project 2 (UG Engineering)	10	CIVL 3020	Sustainable Waste Engineering
ENGR 4035	Smart and Liveable Cities	10	BBus Major Subject	4
EART 3005	Statistical Hydrology	10	BBus Major Subject	5
BBus Professional		10	BBus Major Subject	6
Industrial Experien	ice			Credit Points
			Autumn session	

CIVL 4017

Surface Water Hydrology

Credit Points

	Total Credit Points	400
	Credit Points	40
BBus Major Subje	ect 8	10
BBus Professiona	al Subject 4	10
ENGR 4034	Climate Smart Engineering	10
ENGR 4026	Final Year Project 2 (UG Engineering)	10
Autumn session		
	Credit Points	40
BBus Professiona	al Subject 3	10
EART 3005	Statistical Hydrology	10
ENGR 4035	Smart and Liveable Cities	10
ENGR 4025	Final Year Project 1 (UG Engineering)	10
Spring session		
Year 5		
	Credit Points	40
ENGR 3017	Industrial Experience (Engineering)	0
Industrial Experie	ence	
BBus Major Subje	ect 7	10
PROC 2003	Materials Selection and Design	10
ENVL 3005	Planning the City: Development, Community and Systems	10

Bachelor of Engineering Science

Qualification for this award requires the successful completion of 240 credit points, which include the subjects listed in the recommended sequence below.

* All students undertaking the Bachelor of Engineering Science are required to enrol in MATH 1021 Mathematics for Engineers Preliminary and undertake a readiness test at the beginning of their study.

The readiness test will be conducted at the beginning of the first semester of enrolment and the result will be used to determine whether a student will remain in MATH 1021 Mathematics for Engineers Preliminary or be transferred by the School to MATH 1016 Mathematics for Engineers 1.

Students remaining in MATH 1021 Mathematics for Engineers Preliminary will be required to complete MATH 1016 Mathematics for Engineers 1 during second semester and will be encouraged to complete MATH 1019 Mathematics for Engineers 2 during the Summer session.

Students who finish MATH 1021 Mathematics for Engineers Preliminary will then use this subject as an elective.

Start-year intake

Course	Title	Credit Points
Year 1		
Autumn session		
ENGR 1011	Engineering Physics	10
ENGR 1050	Sustainable Engineering Fundamentals	10
ENGR 1024 Introduction to Engineering Practice		10
Select one of the fo	llowing:	10
MATH 1021	Mathematics for Engineers Preliminary	
MATH 1016	Mathematics for Engineers 1	
	Credit Points	40
Spring session		
ENGR 1018	Fundamentals of Mechanics	10

	Total Credit Points	240
	Credit Points	40
ENGR 2033	Industrial Experience (Engineering Technologist)	0
Industrial Experienc		
CIVL 3019	Wastewater Systems Design	10
CIVL 3020	Sustainable Waste Engineering	10
ELEC 3010	Renewable Energy Systems Design	10
ENGR 3014	Engineering Science Project 2	10
Spring session	Credit Points	40
Elective must be		
Select one elective		10
ENVL 3005	Planning the City: Development, Community and Systems	10
CIVL 4017	Surface Water Hydrology	10
ENGR 3013	Engineering Science Project 1	10
Autumn session		
Year 3	Credit Points	40
ENGR 3030	Specialisation Workshop 2	10
CIVL 2018	Water Supply Systems Design	10
ENGR 2032	Sustainability Analysis and Design	10
CIVL 3011	Hydraulics	10
Spring session	Credit Points	40
EART 2001	Climate Change Science	10
ELEC 1006	Engineering Computing	10
CIVL 2003	Fluid Mechanics	10
ENGR 3029	Specialisation Workshop 1	10
Year 2 Autumn session	Cleuit Foliits	40
WATH 1019	Mathematics for Engineers 2 Credit Points	40
MATH 1016 MATH 1019	Mathematics for Engineers 1	
Select one of the fol		10
	any Level for Year 1	10
Select one elective		10
ELEC 1003	Electrical Fundamentals	10

Mid-year intake

Course	Title	Credit Points
Year 1		
Spring session		
Select one of the f	ollowing:	10
MATH 1021	Mathematics for Engineers Preliminary	
MATH 1016	Mathematics for Engineers 1	
ENGR 1018	Fundamentals of Mechanics	10
ELEC 1003	Electrical Fundamentals	10
ENGR 1024	Introduction to Engineering Practice	10
	Credit Points	40
Autumn session		
Select one of the f	ollowing:	10
MATH 1016	Mathematics for Engineers 1	

	Total Credit Points	240
	Credit Points	40
Elective must	be Level 2 or higher	
Select one elective		10
ENVL 3005	Planning the City: Development, Community and Systems	10
CIVL 4017	Surface Water Hydrology	10
ENGR 3014	Engineering Science Project 2	10
Autumn session		
	Credit Points	40
CIVL 3019	Wastewater Systems Design	10
CIVL 3020	Sustainable Waste Engineering	10
ELEC 3010	Renewable Energy Systems Design	10
ENGR 3013	Engineering Science Project 1	10
Spring session		
Year 3		
	Credit Points	40
ENGR 2033	Industrial Experience (Engineering Technologist)	0
Industrial Experier		0
	be Level 2 or higher	
Select one elective		10
ELEC 1006	Engineering Computing	10
EART 2001	Climate Change Science	10
ENGR 3030	Specialisation Workshop 2	10
Autumn session	On a distingtion World 1	1.0
	Credit Points	40
CIVL 3011	Hydraulics	10
CIVL 2018	Water Supply Systems Design	10
ENGR 2032	Sustainability Analysis and Design	10
ENGR 3029	Specialisation Workshop 1	10
Spring session		
Year 2		
	Credit Points	40
ENGR 1050	Sustainable Engineering Fundamentals	10
ENGR 1011	Engineering Physics	10
CIVL 2003	Fluid Mechanics	10
MATH 1019	Mathematics for Engineers 2	

Major Sequence 2024

This major sequence applies to students who commenced in 2024 or later. If you commenced prior to 2024 please refer to the Sequence 2022-23 tab for details.

This major is included in Bachelor of Engineering Science, Bachelor of Engineering (Honours), Bachelor of Engineering Advanced (Honours) and Bachelor of Engineering (Honours)/Bachelor of Business.

Please follow the recommended sequence for your program as noted below.

Bachelor of Engineering (Honours) (3740)

Qualification for this award requires the successful completion of 320 credit points, which include the subjects listed in the recommended sequence below.

* All students undertaking the Bachelor of Engineering (Honours) are required to enrol in MATH 1021 Mathematics for Engineers Preliminary and undertake a readiness test at the beginning of their study.

The readiness test will be conducted at the beginning of the first semester of enrolment and the result will be used to determine whether a student will remain in MATH 1021 Mathematics for Engineers Preliminary or be transferred by the School to MATH 1016 Mathematics for Engineers 1.

Students remaining in MATH 1021 Mathematics for Engineers
Preliminary will be required to complete MATH 1016 Mathematics
for Engineers 1 during second semester and will be encouraged to
complete MATH 1019 Mathematics for Engineers 2 during the Summer
session.

Start-year intake

Course	Title	
Year 1		
Autumn session		
ENGR 1011	Engineering Physics	10
ELEC 1006	Engineering Computing	10
ENGR 1024	Introduction to Engineering Practice	10
Select one of the foll	owing:	10
MATH 1021	Mathematics for Engineers Preliminary	
MATH 1016	Mathematics for Engineers 1	
	Credit Points	40
Spring session		
ENGR 1018	Fundamentals of Mechanics	10
ELEC 1003	Electrical Fundamentals	10
PROC 1008	Introduction to Materials Engineering	10
Select one of the foll	owing:	10
MATH 1016	Mathematics for Engineers 1	
MATH 1019	Mathematics for Engineers 2	
	Credit Points	40
Year 2		
Autumn session		
CIVL 1001	Surveying for Engineers	10
CIVL 2003	Fluid Mechanics	10
ENGR 1050	Sustainable Engineering Fundamentals	10
EART 2001	Climate Change Science	10
	Credit Points	40
Spring session		
CIVL 3011	Hydraulics	10
ENGR 2032	Sustainability Analysis and Design	10
CIVL 2018	Water Supply Systems Design	10
CIVL 2002	Environmental Engineering	10
	Credit Points	40
Year 3		
Autumn session		
CIVL 4017	Surface Water Hydrology	10
PROC 2003	Materials Selection and Design	10
ENVL 3005	Planning the City: Development,	10
	Community and Systems	
Select one elective or minor subject		
	Credit Points	40

Mid-year inta	ıke	
	Total Credit Points	320
	Credit Points	40
Select one electi	ve or minor subject	10
ENGR 4042	Final Year Project 2 (UG Engineering)	20
ENGR 4035	Smart and Liveable Cities	10
Spring session		
	Credit Points	40
Select one electi	ve or minor subject	10
ENGR 4034	Climate Smart Engineering	10
ENGR 4041	Final Year Project 1 (UG Engineering)	20
Autumn session		
Year 4		
	Credit Points	40
ENGR 3017	Industrial Experience (Engineering)	0
Industrial Experi	ence	
Select one electi	ve or minor subject	10
CIVL 3019	Wastewater Systems Design	10
CIVL 3020	Sustainable Waste Engineering	10
ELEC 3010	Renewable Energy Systems Design	10
Spring session		

Mid-y	/ear	ınta	kρ

Spring eaccion

Course	Title	Credit Points
Year 1		
Spring session		
ENGR 1018	Fundamentals of Mechanics	10
PROC 1008	Introduction to Materials Engineering	10
ENGR 1024	Introduction to Engineering Practice	10
Select one of the fol	lowing:	10
MATH 1021	Mathematics for Engineers Preliminary	
MATH 1016	Mathematics for Engineers 1	
	Credit Points	40
Autumn session		
CIVL 2003	Fluid Mechanics	10
ENGR 1011	Engineering Physics	10
ENGR 1050	Sustainable Engineering Fundamentals	10
Select one of the fol	lowing:	10
MATH 1016	Mathematics for Engineers 1	
MATH 1019	Mathematics for Engineers 2	
	Credit Points	40
Year 2		
Spring session		
ENGR 2032	Sustainability Analysis and Design	10
CIVL 2018	Water Supply Systems Design	10
CIVL 3011	Hydraulics	10
ELEC 1003	Electrical Fundamentals	10
	Credit Points	40
Autumn session		
CIVL 1001	Surveying for Engineers	10
EART 2001	Climate Change Science	10
ELEC 1006	Engineering Computing	10
PROC 2003	Materials Selection and Design	10
	Credit Points	40

	Total Credit Points	320
	Credit Points	40
Select one elective o	· · · · · · · · · · · · · · · · · · ·	10
ENGR 4034	Climate Smart Engineering	10
ENGR 4042	Final Year Project 2 (UG Engineering)	20
Autumn session	Credit Points	40
Select one elective o	Credit Points	40
Select one elective o		10
ENGR 4041 ENGR 4035	Final Year Project 1 (UG Engineering) Smart and Liveable Cities	10
ENGR 4041	Final Voor Project 1 (LIC Engineering)	20
Year 4 Spring session		
	Credit Points	40
ENGR 3017	Industrial Experience (Engineering)	0
Industrial Experience	2	
Select two electives	or minor subjects	20
LIAVE 3003	Community and Systems	10
ENVL 3005	Planning the City: Development,	10
CIVI 4017	Surface Water Hydrology	10
Autumn session	Credit Points	40
CIVL 2002	Environmental Engineering	10
CIVL 3019	Wastewater Systems Design	10
CIVL 3020	Sustainable Waste Engineering	10
ELEC 3010	Renewable Energy Systems Design	10
Spring session		
Year 3		

Bachelor of Engineering Advanced (Honours) (3771)

Qualification for this award requires the successful completion of 320 credit points, which include the subjects listed in the recommended sequence below.

Start-year intake

otart year mita	INC .	
Course Title		Credit Points
Year 1		
Autumn session		
MATH 1034	Mathematics for Engineers 1 (Advanced)	10
ENGR 1024	Introduction to Engineering Practice	10
ENGR 1047	Advanced Engineering Physics 1	10
ELEC 1006	Engineering Computing	10
	Credit Points	40
Spring session		
MATH 1035	Mathematics for Engineers 2 (Advanced)	10
ENGR 1018	Fundamentals of Mechanics	10
ELEC 1003	Electrical Fundamentals	10
ENGR 2023	Advanced Engineering Physics 2	10
	Credit Points	40
Year 2		
Autumn session		
CIVL 1001	Surveying for Engineers	10
CIVL 2003	Fluid Mechanics	10
ENGR 1050	Sustainable Engineering Fundamentals	10

EART 2001	Climate Change Science	10	
	Credit Points	40	
Spring session		10	
CIVL 3011	Hydraulics		
ENGR 2032	Sustainability Analysis and Design	10	
CIVL 2018	Water Supply Systems Design	10	
PROC 1008	Introduction to Materials Engineering	10	
	o maintain a minimum GPA of 5.0 at the end		
	O Credit Points, and again at the completion will be automatically transferred to the B.		
	irs) (3740) program.		
3 3 .	Credit Points	40	
Year 3			
Autumn session			
CIVL 4017	Surface Water Hydrology	10	
PROC 2003	Materials Selection and Design	10	
ENVL 3005	Planning the City: Development,	10	
	Community and Systems		
Select one elective	or minor subject	10	
	Credit Points	40	
Spring session			
ELEC 3010	Renewable Energy Systems Design	10	
CIVL 3020	Sustainable Waste Engineering	10	
CIVL 3019	Wastewater Systems Design	10	
Select one elective	or minor subject	10	
Industrial Experience	e		
ENGR 3017	Industrial Experience (Engineering)	0	
	Credit Points	40	
Year 4			
Autumn session			
ENGR 4043	Advanced Engineering Thesis 1: Preliminary Investigations	20	
ENGR 4034	Climate Smart Engineering	10	
Select one elective	or minor subject	10	
	Credit Points	40	
Spring session			
ENGR 4044	Advanced Engineering Thesis 2: Detailed Investigations	20	
ENGR 4035	Smart and Liveable Cities	10	
Select one elective		10	
	Credit Points	40	
	Total Credit Points	320	
	iotai Gieuit Foiiits	320	
Mid-year intake	2		
Course	Title	Credit	
		Points	
Year 1			

ELEC 1006	Engineering Computing	10
-	Credit Points	40
Year 2		
Spring session		
ENGR 2032	Sustainability Analysis and Design	10
CIVL 2018	Water Supply Systems Design	10
CIVL 3011	Hydraulics	10
PROC 1008	Introduction to Materials Engineering	10
	Credit Points	40
Autumn session		
CIVL 1001	Surveying for Engineers	10
EART 2001	Climate Change Science	10
ENGR 1050	Sustainable Engineering Fundamentals	10
ENGR 1024	Introduction to Engineering Practice	10
Students who fai	il to maintain a minimum GPA of 5.0 at the end	
	160 Credit Points, and again at the completion	
	nts will be automatically transferred to the B.	
Engineering (Hor	nours) (3740) program.	
	Credit Points	40
Year 3		
Spring session		
ELEC 3010	Renewable Energy Systems Design	10
CIVL 3020	Sustainable Waste Engineering	10
CIVL 3019	Wastewater Systems Design	10
Select one elective	ve or minor subject	10
	Credit Points	40
Autumn session		
CIVL 4017	Surface Water Hydrology	10
PROC 2003	Materials Selection and Design	10
ENVL 3005	Planning the City: Development, Community and Systems	10
Select one elective	ve or minor subject	10
Industrial Experie	ence	
ENGR 3017	Industrial Experience (Engineering)	0
	Credit Points	40
Year 4		
Spring session		
ENGR 4043	Advanced Engineering Thesis 1: Preliminary Investigations	20
ENGR 4035	Smart and Liveable Cities	10
	ve or minor subject	10
	Credit Points	40
Autumn session	orealt i omto	
ENGR 4044	Advanced Engineering Thesis 2: Detailed	20
LIVOIT TOTT	Investigations	20
ENGR 4034	Climate Smart Engineering	10
	ve or minor subject	10
	Credit Points	40
	Total Credit Points	320
	Total Great Foliits	320

Bachelor of Engineering (Honours)/ Bachelor of Business (3800)

Qualification for this award requires the successful completion of 440 credit points, which include the subjects listed in the recommended sequence below.

Course	Title	Points
Year 1		
Spring session		
MATH 1034	Mathematics for Engineers 1 (Advanced)	10
ENGR 1018	Fundamentals of Mechanics	10
ELEC 1003	Electrical Fundamentals	10
ENGR 2023	Advanced Engineering Physics 2	10
	Credit Points	40
Autumn session		
MATH 1035	Mathematics for Engineers 2 (Advanced)	10
CIVL 2003	Fluid Mechanics	10
ENGR 1047	Advanced Engineering Physics 1	10

Start-year intak	e		ENGR 3017	Industrial Experience (Engineering)	0
Course	Title	Credit		Credit Points	40
		Points	Year 5		
Year 1			Autumn session		
Autumn session			ENGR 4041	Final Year Project 1 (UG Engineering)	20
MATH 1016	Mathematics for Engineers 1	10	ENGR 4034	Climate Smart Engineering	10
ENGR 1011	Engineering Physics	10	BBus Major Subjec	t 5	10
ENGR 1024	Introduction to Engineering Practice	10		Credit Points	40
BBus Core Subject 1		10	Spring session		
	Credit Points	40	ENGR 4042	Final Year Project 2 (UG Engineering)	20
Spring session			ENGR 4035	Smart and Liveable Cities	10
MATH 1019	Mathematics for Engineers 2	10	BBus Major Subjec	t 6	10
PROC 1008	Introduction to Materials Engineering	10		Credit Points	40
BBus Core Subject 2		10	Year 6		
BBus Core Subject 3		10	Autumn session		
	Credit Points	40	BBus Major Subjec	t 7	10
Year 2			BBus Major Subjec	t 8	10
Autumn session			BBus Professional	Subject 3	10
ELEC 1006	Engineering Computing	10	BBus Professional	Subject 4	10
BBus Core Subject 4		10		Credit Points	40
BBus Professional S	ubject 1	10		Total Credit Points	440
BBus Professional S	ubject 2	10			
	Credit Points	40	Mid-year intak	9	
Spring session			Course	Title	Credit
ELEC 1003	Electrical Fundamentals	10			Points
ENGR 1018	Fundamentals of Mechanics	10	Year 1		
BBus Major Subject	1	10	Spring session		
BBus Major Subject	2	10	MATH 1016	Mathematics for Engineers 1	10
	Credit Points	40	PROC 1008	Introduction to Materials Engineering	10
Year 3			ENGR 1024	Introduction to Engineering Practice	10
Autumn session			BBus Core Subject		10
ENGR 1050	Sustainable Engineering Fundamentals	10		Credit Points	40
CIVL 1001	Surveying for Engineers	10	Autumn session		1.0
CIVL 2003	Fluid Mechanics	10	MATH 1019	Mathematics for Engineers 2	10
EART 2001	Climate Change Science	10	ENGR 1011	Engineering Physics	10
	Credit Points	40	BBus Core Subject		10
Spring session			BBus Core Subject		10
ENGR 2032	Sustainability Analysis and Design	10		Credit Points	40
CIVL 2002	Environmental Engineering	10	Year 2		
CIVL 2018	Water Supply Systems Design	10	Spring session		
CIVL 3011	Hydraulics	10	ELEC 1003	Electrical Fundamentals	10
	Credit Points	40	ENGR 1018	Fundamentals of Mechanics	10
Year 4			BBus Core Subject		10
Autumn session			BBus Major Subjec		10
PROC 2003	Materials Selection and Design	10		Credit Points	40
CIVL 4017	Surface Water Hydrology	10	Autumn session		10
ENVL 3005	Planning the City: Development,	10	ENGR 1050	Sustainable Engineering Fundamentals	10
	Community and Systems		CIVL 2003	Fluid Mechanics	10
BBus Major Subject		10	BBus Major Subjec		10
	Credit Points	40	BBus Professional		10
Spring session			v .	Credit Points	40
ELEC 3010	Renewable Energy Systems Design	10	Year 3		
CIVL 3020	Sustainable Waste Engineering	10	Spring session		
CIVL 3019	Wastewater Systems Design	10	ENGR 2032	Sustainability Analysis and Design	10
BBus Major Subject		10	CIVL 2018	Water Supply Systems Design	10
Industrial Experience	e		CIVL 2002	Environmental Engineering	10

CIVII 2011	Lludrouling	10
CIVL 3011	Hydraulics	10
	Credit Points	40
Autumn session		
PROC 2003	Materials Selection and Design	10
ENVL 3005	Planning the City: Development,	10
011/1 4017	Community and Systems	10
CIVL 4017	Surface Water Hydrology	10
EART 2001	Climate Change Science	10
	Credit Points	40
Year 4		
Spring session		
ELEC 3010	Renewable Energy Systems Design	10
CIVL 3020	Sustainable Waste Engineering	10
CIVL 3019	Wastewater Systems Design	10
BBus Major Sub	ject 3	10
	Credit Points	40
Autumn session		
ELEC 1006	Engineering Computing	10
CIVL 1001	Surveying for Engineers	10
BBus Major Subj	ject 4	10
BBus Profession	al Subject 2	10
Industrial Experi	ence	
ENGR 3017	Industrial Experience (Engineering)	0
	Credit Points	40
Year 5		
Spring session		
ENGR 4041	Final Year Project 1 (UG Engineering)	20
ENGR 4035	Smart and Liveable Cities	10
BBus Major Subj	ject 5	10
	Credit Points	40
Autumn session		
ENGR 4042	Final Year Project 2 (UG Engineering)	20
ENGR 4034	Climate Smart Engineering	10
BBus Major Subj	ject 6	10
	Credit Points	40
Year 6		
Spring session		
BBus Major Sub	ject 7	10
BBus Major Sub		10
BBus Profession		10
BBus Profession	-	10
	Credit Points	40
	Total Credit Points	440
	. Star Orealt Formes	770

Bachelor of Engineering Science (3691)

Qualification for this award requires the successful completion of 240 credit points, which include the subjects listed in the recommended sequence below.

* All students undertaking the Bachelor of Engineering Science are required to enrol in MATH 1021 Mathematics for Engineers Preliminary and undertake a readiness test at the beginning of their study.

The readiness test will be conducted at the beginning of the first semester of enrolment and the result will be used to determine whether a student will remain in MATH 1021 Mathematics for Engineers

Preliminary or be transferred by the School to MATH 1016 Mathematics for Engineers 1.

Students remaining in MATH 1021 Mathematics for Engineers Preliminary will be required to complete MATH 1016 Mathematics for Engineers 1 during second semester and will be encouraged to complete MATH 1019 Mathematics for Engineers 2 during the Summer session.

Students who finish MATH 1021 Mathematics for Engineers Preliminary will then use this subject as an elective.

Start-year intake

Spring session

ENGR 3014

Course	Title	Credit Points
Year 1		
Autumn session		
ENGR 1011	Engineering Physics	10
ENGR 1050	Sustainable Engineering Fundamentals	10
ENGR 1024	Introduction to Engineering Practice	10
Select one of the	following:	10
MATH 1021	Mathematics for Engineers Preliminary	
MATH 1016	Mathematics for Engineers 1	
	Credit Points	40
Spring session		
ENGR 1018	Fundamentals of Mechanics	10
ELEC 1003	Electrical Fundamentals	10
PROC 1008	Introduction to Materials Engineering	10
Select one of the		10
MATH 1016	Mathematics for Engineers 1	
MATH 1019	Mathematics for Engineers 2	
	Credit Points	40
Year 2	orealt i omito	
Autumn session		
ENGR 3029	Specialisation Workshop 1	10
CIVL 2003	Fluid Mechanics	10
ELEC 1006	Engineering Computing	10
EART 2001	Climate Change Science	10
EANT 2001	Credit Points	40
Ci	Credit Points	40
Spring session	Underville	10
CIVL 3011	Hydraulics	10
ENGR 2032	Sustainability Analysis and Design	10
CIVL 2018	Water Supply Systems Design	10
ENGR 3030	Specialisation Workshop 2	10
	Credit Points	40
Year 3		
Autumn session		
ENGR 3013	Engineering Science Project 1	10
CIVL 4017	Surface Water Hydrology	10
ENVL 3005	Planning the City: Development, Community and Systems	10
Select one elective	e	10
	be Level 2 or higher (an exception applies ompleting Mathematics for Engineers ıbject)	
	Credit Points	40

Engineering Science Project 2

10

	Total Credit Points	240
	Credit Points	40
ENGR 2033	Industrial Experience (Engineering Technologist)	0
Industrial Experien	ce	
	evel 2 or higher (an exception applies for ng Mathematics for Engineers Preliminary	
Select one elective		10
CIVL 3020	Sustainable Waste Engineering	10
ELEC 3010	Renewable Energy Systems Design	10

Mid-year intal	ke	
Course	Title	Credit
Year 1		Points
Spring session		
ENGR 1018	Fundamentals of Mechanics	10
ELEC 1003	Electrical Fundamentals	10
PROC 1008	Introduction to Materials Engineering	10
Select one of the		10
MATH 1021	Mathematics for Engineers Preliminary	
MATH 1016	Mathematics for Engineers 1	
	Credit Points	40
Autumn session		
CIVL 2003	Fluid Mechanics	10
ENGR 1024	Introduction to Engineering Practice	10
ENGR 1050	Sustainable Engineering Fundamentals	10
Select one of the	following:	10
MATH 1016	Mathematics for Engineers 1	
MATH 1019	Mathematics for Engineers 2	
	Credit Points	40
Year 2		
Spring session		
ENGR 3029	Specialisation Workshop 1	10
ENGR 2032	Sustainability Analysis and Design	10
CIVL 2018	Water Supply Systems Design	10
CIVL 3011	Hydraulics	10
	Credit Points	40
Autumn session		
ENGR 3030	Specialisation Workshop 2	10
EART 2001	Climate Change Science	10
ELEC 1006	Engineering Computing	10
ENGR 1011	Engineering Physics	10
Industrial Experie	nce	
ENGR 2033	Industrial Experience (Engineering Technologist)	0
	Credit Points	40
Year 3		
Spring session		
ENGR 3013	Engineering Science Project 1	10
ELEC 3010	Renewable Energy Systems Design	10
CIVL 3020	Sustainable Waste Engineering	10
Select one electiv	e	10

Electives must be Level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary subject)

	Credit Points	40	
Autumn session	oredit i onits	40	
Autumn session			
ENGR 3014	Engineering Science Project 2	10	
CIVL 4017	Surface Water Hydrology	10	
ENVL 3005	Planning the City: Development, Community and Systems	10	
Select one electi	ve	10	
Elective mus	t be Level 2 or higher (an exception applies		

for students completing Mathematics for Engineers Preliminary subject)

40	Credit Points
240	Total Credit Points

Related Programs

Bachelor of Engineering (Honours)/Bachelor of Business (3728) (https://hbook.westernsydney.edu.au/programs/bachelor-engineeringhonours-bachelor-business/)

Bachelor of Engineering (Honours) (3740) (https:// hbook.westernsydney.edu.au/programs/bachelor-engineeringhonours/)

Bachelor of Engineering Advanced (Honours) (3771) (https:// hbook.westernsydney.edu.au/programs/bachelor-engineeringadvanced-honours/)

Bachelor of Engineering Science (3691) (https:// hbook.westernsydney.edu.au/programs/bachelor-engineeringscience/)