

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/Manager/Consultant, and Sustainability Engineer/Manager/Consultant. All students complete a mandatory industrial placement.

Location

Campus	Mode	Advice
Parramatta Campus - Victoria Road	Internal	Program Advice (edbe@westernsydney.edu.au)
Parramatta City Campus-Macquarie Street	Internal	Program Advice (edbe@westernsydney.edu.au)
Penrith Campus	Internal	Program Advice (edbe@westernsydney.edu.au)

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

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
Select one elective		10
• Elective can be any Level for Year 1 Elective		
Select one of the following:		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
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 Level 2 or higher		
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 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
One Alternate Subject		10
Industrial Experience		

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 Subject		10
Select one elective		10
• Elective subject 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 Subject		10
Select one elective		10
• Elective subjects 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 Design and Development (not yet available)		10
Digital Manufacturing and IIoT (not yet available)		10
Design for Advanced Manufacturing (not yet available)		10
HUMN 1013	Contextualising Indigenous Australia (Day Mode)	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 Autumn 2022 or earlier.

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

Mid-year intake

Course	Title	Credit Points
Year 1		
Spring session		
Select one of the following:		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 following:		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 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 unit must 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 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
One alternate subject		10
Industrial Experience		

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 subject		10
• Elective unit must be Level 2 or higher		
Credit Points		40
Autumn session		
ENGR 4026	Final Year Project 2 (UG Engineering)	10
ENGR 4034	Climate Smart Engineering	10
Select one elective		10
One alternate subject		10
• Elective unit 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 Design and Development (not yet available)		10
Digital Manufacturing and IIoT (not yet available)		10
Design for Advanced Manufacturing (not yet available)		10
HUMN 1013	Contextualising Indigenous Australia (Day Mode)	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 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

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 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 be Level 2 or higher		
Credit Points		40
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 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
One Alternate Subject		10

Industrial Experience

ENGR 3017	Industrial Experience (Engineering)	0
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Credit Points	40
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Year 4**Autumn session**

ENGR 4037	Advanced Engineering Thesis 1: Preliminary Investigations	10
ENGR 4034	Climate Smart Engineering	10
One Alternate Subject		10
Select one elective		10

- Elective unit must be Level 2 or higher

Credit Points	40
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Spring session

ENGR 4036	Advanced Engineering Thesis 2: Detailed Investigations	10
ENGR 4035	Smart and Liveable Cities	10
One Alternate subject		10
Select one elective		10

- Elective subjects must be Level 2 or higher

Credit Points	40
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Total Credit Points	320
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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 Design and Development (not yet available)		10
Digital Manufacturing and IIoT (not yet available)		10
Design for Advanced Manufacturing (not yet available)		10
HUMN 1013	Contextualising Indigenous Australia (Day Mode)	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

Mid-year intake

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	Hydraulics	10
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 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
One alternate subject		10
Industrial Experience		
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 subject		10
Select one elective		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 subject		10
Select one elective		10
• Elective 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 Design and Development (not yet available)		10
Digital Manufacturing and IIoT (not yet available)		10
Design for Advanced Manufacturing (not yet available)		10
HUMN 1013	Contextualising Indigenous Australia (Day Mode)	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-year intake

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		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		10
Credit Points		40

Year 2**Autumn session**

ENGR 1050	Sustainable Engineering Fundamentals	10
BBus Professional Subject 1		10
BBus Professional Subject 2		10
BBus Major Subject 1		10
Credit Points		40

Spring session

CIVL 3020	Sustainable Waste Engineering	10
ELEC 1003	Electrical Fundamentals	10
BBus Major Subject 2		10
BBus Major Subject 3		10
Credit Points		40

Year 3**Autumn session**

CIVL 1001	Surveying for Engineers	10
CIVL 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
CIVL 3019	Wastewater Systems Design	10
Credit Points		40

Year 4**Autumn session**

CIVL 4017	Surface Water Hydrology	10
ENVL 3005	Planning the City: Development, Community and Systems	10
PROC 2003	Materials Selection and Design	10
BBus Major Subject 4		10
Credit Points		40

Spring session

ELEC 3010	Renewable Energy Systems Design	10
BBus Major Subject 5		10
BBus Major Subject 6		10
BBus Major Subject 7		10
Credit Points		40

Year 5**Autumn session**

ENGR 4025	Final Year Project 1 (UG Engineering)	10
ENGR 4034	Climate Smart Engineering	10
BBus Professional Subject 3		10
BBus Major Subject 8		10
Credit Points		40

Spring session

ENGR 4026	Final Year Project 2 (UG Engineering)	10
ENGR 4035	Smart and Liveable Cities	10
EART 3005	Statistical Hydrology	10
BBus Professional Subject 4		10

Industrial Experience

ENGR 3017	Industrial Experience (Engineering)	0
Credit Points		40
Total Credit Points		400

Mid-year intake

Course	Title	Credit Points
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Year 1**Spring session**

MATH 1016	Mathematics for Engineers 1	10
ENGR 1018	Fundamentals of Mechanics	10
BBus Core Subject 1		10
BBus Core Subject 2		10
Credit Points		40

Autumn session

MATH 1019	Mathematics for Engineers 2	10
ENGR 1011	Engineering Physics	10
BBus Core Subject 3		10
BBus Core Subject 4		10
Credit Points		40

Year 2**Spring session**

ENGR 2032	Sustainability Analysis and Design	10
ELEC 1003	Electrical Fundamentals	10
BBus Major Subject 1		10
BBus Major Subject 2		10
Credit Points		40

Autumn session

CIVL 2003	Fluid Mechanics	10
ENGR 1050	Sustainable Engineering Fundamentals	10
BBus Professional Subject 1		10
BBus Major Subject 3		10
Credit Points		40

Year 3**Spring session**

ELEC 3010	Renewable Energy Systems Design	10
CIVL 3011	Hydraulics	10
CIVL 2018	Water Supply Systems Design	10
CIVL 3019	Wastewater Systems Design	10
Credit Points		40

Autumn session

ELEC 1006	Engineering Computing	10
EART 2001	Climate Change Science	10
CIVL 1001	Surveying for Engineers	10
BBus Professional Subject 2		10
Credit Points		40

Year 4**Spring session**

CIVL 3020	Sustainable Waste Engineering	10
BBus Major Subject 4		10
BBus Major Subject 5		10
BBus Major Subject 6		10
Credit Points		40

Autumn session

CIVL 4017	Surface Water Hydrology	10
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ENVL 3005	Planning the City: Development, Community and Systems	10
PROC 2003	Materials Selection and Design	10
BBus Major Subject 7		10
Industrial Experience		
ENGR 3017	Industrial Experience (Engineering)	0
Credit Points		40
Year 5		
Spring session		
ENGR 4025	Final Year Project 1 (UG Engineering)	10
ENGR 4035	Smart and Liveable Cities	10
EART 3005	Statistical Hydrology	10
BBus Professional Subject 3		10
Credit Points		40
Autumn session		
ENGR 4026	Final Year Project 2 (UG Engineering)	10
ENGR 4034	Climate Smart Engineering	10
BBus Professional Subject 4		10
BBus Major Subject 8		10
Credit Points		40
Total Credit Points		400

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 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
Select one elective		10
• Elective can be any Level for Year 1		
Select one of the following:		10
MATH 1016	Mathematics for Engineers 1	
MATH 1019	Mathematics for Engineers 2	
Credit Points		40

Year 2

Autumn session

ENGR 3029	Specialisation Workshop 1	10
CIVL 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
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		10
• Elective must be Level 2 or higher		
Credit Points		40

Spring session

ENGR 3014	Engineering Science Project 2	10
ELEC 3010	Renewable Energy Systems Design	10
CIVL 3020	Sustainable Waste Engineering	10
CIVL 3019	Wastewater Systems Design	10

Industrial Experience

ENGR 2033	Industrial Experience (Engineering Technologist)	0
Credit Points		40
Total Credit Points		240

Mid-year intake

Course	Title	Credit Points
Year 1		
Spring session		
Select one of the following:		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 following:		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 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
Select one elective		10
• Elective must be Level 2 or higher		
Industrial Experience		
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
CIVL 3019	Wastewater Systems Design	10
Credit Points		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 elective		10
• Elective must be Level 2 or higher		
Credit Points		40
Total Credit Points		240

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	Credit Points
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 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 following:		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, Community and Systems	10
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

ENGR 3017	Industrial Experience (Engineering)	0
Credit Points		40

Year 4**Autumn session**

ENGR 4041	Final Year Project 1 (UG Engineering)	20
ENGR 4034	Climate Smart Engineering	10
Select one elective or minor subject		10

Credit Points		40
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Spring session

ENGR 4035	Smart and Liveable Cities	10
ENGR 4042	Final Year Project 2 (UG Engineering)	20
Select one elective or minor subject		10

Credit Points		40
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Total Credit Points		320
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Mid-year intake

Course	Title	Credit Points
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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 following:		10

MATH 1021	Mathematics for Engineers Preliminary	
MATH 1016	Mathematics for Engineers 1	

Credit Points		40
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Autumn session

CIVL 2003	Fluid Mechanics	10
ENGR 1011	Engineering Physics	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
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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
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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
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Year 3**Spring session**

ELEC 3010	Renewable Energy Systems Design	10
CIVL 3020	Sustainable Waste Engineering	10
CIVL 3019	Wastewater Systems Design	10
CIVL 2002	Environmental Engineering	10

Credit Points		40
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Autumn session

CIVL 4017	Surface Water Hydrology	10
ENVL 3005	Planning the City: Development, Community and Systems	10

Select two electives or minor subjects		20
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Industrial Experience

ENGR 3017	Industrial Experience (Engineering)	0
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Credit Points		40
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Year 4**Spring session**

ENGR 4041	Final Year Project 1 (UG Engineering)	20
ENGR 4035	Smart and Liveable Cities	10
Select one elective or minor subject		10

Credit Points		40
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Autumn session

ENGR 4042	Final Year Project 2 (UG Engineering)	20
ENGR 4034	Climate Smart Engineering	10
Select one elective or minor subject		10

Credit Points		40
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Total Credit Points		320
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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

Course	Title	Credit Points
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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
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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
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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
PROC 1008	Introduction to Materials Engineering	10
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
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		
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 or minor subject		10
Credit Points		40
Total Credit Points		320

Mid-year intake

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 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

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 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
Select one elective 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 or minor subject		10
Industrial Experience		
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
Select one elective or minor subject		10
Credit Points		40
Autumn session		
ENGR 4044	Advanced Engineering Thesis 2: Detailed Investigations	20
ENGR 4034	Climate Smart Engineering	10
Select one elective or minor subject		10
Credit Points		40
Total Credit Points		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.

Start-year intake

Course	Title	Credit Points
Year 1		
Autumn session		
MATH 1016	Mathematics for Engineers 1	10
ENGR 1011	Engineering Physics	10
ENGR 1024	Introduction to Engineering Practice	10
BBus Core Subject 1		10
Credit Points		40
Spring session		
MATH 1019	Mathematics for Engineers 2	10
PROC 1008	Introduction to Materials Engineering	10
BBus Core Subject 2		10
BBus Core Subject 3		10
Credit Points		40
Year 2		
Autumn session		
ELEC 1006	Engineering Computing	10
BBus Core Subject 4		10
BBus Professional Subject 1		10
BBus Professional Subject 2		10
Credit Points		40
Spring session		
ELEC 1003	Electrical Fundamentals	10
ENGR 1018	Fundamentals of Mechanics	10
BBus Major Subject 1		10
BBus Major Subject 2		10
Credit Points		40
Year 3		
Autumn session		
ENGR 1050	Sustainable Engineering Fundamentals	10
CIVL 1001	Surveying for Engineers	10
CIVL 2003	Fluid Mechanics	10
EART 2001	Climate Change Science	10
Credit Points		40
Spring session		
ENGR 2032	Sustainability Analysis and Design	10
CIVL 2002	Environmental Engineering	10
CIVL 2018	Water Supply Systems Design	10
CIVL 3011	Hydraulics	10
Credit Points		40
Year 4		
Autumn session		
PROC 2003	Materials Selection and Design	10
CIVL 4017	Surface Water Hydrology	10
ENVL 3005	Planning the City: Development, Community and Systems	10
BBus Major Subject 3		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
BBus Major Subject 4		10
Industrial Experience		

ENGR 3017	Industrial Experience (Engineering)	0
Credit Points		40
Year 5		
Autumn session		
ENGR 4041	Final Year Project 1 (UG Engineering)	20
ENGR 4034	Climate Smart Engineering	10
BBus Major Subject 5		10
Credit Points		40
Spring session		
ENGR 4042	Final Year Project 2 (UG Engineering)	20
ENGR 4035	Smart and Liveable Cities	10
BBus Major Subject 6		10
Credit Points		40
Year 6		
Autumn session		
BBus Major Subject 7		10
BBus Major Subject 8		10
BBus Professional Subject 3		10
BBus Professional Subject 4		10
Credit Points		40
Total Credit Points		440

Mid-year intake

Course	Title	Credit Points
Year 1		
Spring session		
MATH 1016	Mathematics for Engineers 1	10
PROC 1008	Introduction to Materials Engineering	10
ENGR 1024	Introduction to Engineering Practice	10
BBus Core Subject 1		10
Credit Points		40
Autumn session		
MATH 1019	Mathematics for Engineers 2	10
ENGR 1011	Engineering Physics	10
BBus Core Subject 2		10
BBus Core Subject 3		10
Credit Points		40
Year 2		
Spring session		
ELEC 1003	Electrical Fundamentals	10
ENGR 1018	Fundamentals of Mechanics	10
BBus Core Subject 4		10
BBus Major Subject 1		10
Credit Points		40
Autumn session		
ENGR 1050	Sustainable Engineering Fundamentals	10
CIVL 2003	Fluid Mechanics	10
BBus Major Subject 2		10
BBus Professional Subject 1		10
Credit Points		40
Year 3		
Spring session		
ENGR 2032	Sustainability Analysis and Design	10
CIVL 2018	Water Supply Systems Design	10
CIVL 2002	Environmental Engineering	10

CIVL 3011	Hydraulics	10
Credit Points		40
Autumn session		
PROC 2003	Materials Selection and Design	10
ENVL 3005	Planning the City: Development, 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 Subject 3		10
Credit Points		40
Autumn session		
ELEC 1006	Engineering Computing	10
CIVL 1001	Surveying for Engineers	10
BBus Major Subject 4		10
BBus Professional Subject 2		10
Industrial Experience		
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 Subject 5		10
Credit Points		40
Autumn session		
ENGR 4042	Final Year Project 2 (UG Engineering)	20
ENGR 4034	Climate Smart Engineering	10
BBus Major Subject 6		10
Credit Points		40
Year 6		
Spring session		
BBus Major Subject 7		10
BBus Major Subject 8		10
BBus Professional Subject 3		10
BBus Professional Subject 4		10
Credit Points		40
Total Credit Points		440

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

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 following:		10
MATH 1016	Mathematics for Engineers 1	
MATH 1019	Mathematics for Engineers 2	
Credit Points		40
Year 2		
Autumn session		
ENGR 3029	Specialisation Workshop 1	10
CIVL 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
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		10
• Elective must be Level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary subject)		
Credit Points		40
Spring session		
ENGR 3014	Engineering Science Project 2	10

ELEC 3010	Renewable Energy Systems Design	10
CIVL 3020	Sustainable Waste Engineering	10
Select one elective		10
Elective must be Level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary subject)		
Industrial Experience		
ENGR 2033	Industrial Experience (Engineering Technologist)	0
Credit Points		40
Total Credit Points		240

Mid-year intake

Course	Title	Credit Points
Year 1		
Spring session		
ENGR 1018	Fundamentals of Mechanics	10
ELEC 1003	Electrical Fundamentals	10
PROC 1008	Introduction to Materials Engineering	10
Select one of the following:		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 Experience		
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 elective		10

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

Credit Points		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 elective		10
• Elective must be Level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary subject)		
Credit Points		40
Total Credit Points		240

Related Programs

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

Bachelor of Engineering (Honours) (3740) (<https://hbook.westernsydney.edu.au/programs/bachelor-engineering-honours/>)

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

Bachelor of Engineering Science (3691) (<https://hbook.westernsydney.edu.au/programs/bachelor-engineering-science/>)