CONSTRUCTION, TESTAMUR MAJOR (T034)

Western Sydney University Major Code: T034

Previous Codes: KT3153.1, KT3155.1, ST3067.1, KT3166

Available to students in other Western Sydney University programs? No

Select the link for your program below for the locations of your major

- Bachelor of Engineering (Honours)
- Bachelor of Engineering Science
- Diploma in Aerotropolis Industry
- 4.0 (Mechatronics Skills)/Bachelor of Engineering Science
- Diploma in Engineering/Bachelor of Engineering Studies

Location

			Select one elective (any level)	10
Campus	Mode	Advice	Credit Points	40
Parramatta City	Internal	beng@westernsydney.e	du. vear 2	
Campus			Autumn session	
Penrith Campus	Internal	beng@westernsydney.e		10

Graduate Diploma in Project Management Graduate Diploma in Project Management (exit only) Master of Project Management

Location

CampusModeParramatta CityInternalCampus-MacquarieStreet

Advice Xiaohua (Sean) Jin (https:// directory.westernsydney.ec search/email/ xiaohua.jin@westernsydney

Recommended Sequence

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 inMATH 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 the Spring session and will be encouraged to complete MATH 1019 Mathematics for Engineers 2 during the Summer session.

Full-time start-year		o "·
Course	Title	Credit Points
Year 1		
Autumn session		
ELEC 1006	Engineering Computing	10
ENGR 1011	Engineering Physics	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		
MATH 1019	Mathematics for Engineers 2	10
ENGR 1018	Fundamentals of Mechanics	10
PROC 1008	Introduction to Materials Engineering	10
Select one elective (a	any level)	10
	Credit Points	40
Year 2		
Autumn session		
.au CIVL 1001	Surveying for Engineers	10
MECH 2003	Mechanics of Materials	10
BLDG 2002	Building Measurement	10
CIVL 2012	Soil Mechanics	10
	Credit Points	40
Spring session		
ENGR 2016	Pavement Materials and Design	10
CIVL 2007	Introduction to Structural Engineering	10
BLDG 2001	Building Estimates and Tendering	10
Select one elective		10
	must be level 2 or higher (an exception nts completing Mathematics for Engineers	
	Credit Points	40
ey.edu.au) Year 3	Credit Points	40
Autumn session		
CIVL 3014	Structural Analysis	10
BUSM 3077	Construction Project Management	10
CIVL 3002	Concrete Structures (UG)	10
Minor Alternate Subj	· ,	10
	Credit Points	40
Spring session		
CIVL 3012	Steel Structures	10
CIVL 3017	Construction Scheduling	10
CIVL 3007	Engineering Geomechanics	10
Minor Alternate Subj		10
Industrial Experience		
ENGR 3017	Industrial Experience (Engineering)	0
	Credit Points	40

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Year 4

Autumn session		
BLDG 4009	Residential Building Project	10
ENGR 4025	Final Year Project 1 (UG Engineering)	10
Minor Alternate Subj	iect	10
Select one elective		10
*Elective subjects must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary subject)		
	Credit Points	40
Spring session		
CIVL 4016	Envelope and Services	10
ENGR 4026	Final Year Project 2 (UG Engineering)	10
Minor Alternate Subject		
Select one elective		
*Elective subjects must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary subject)		
Credit Points		40
	Total Credit Points	320

Minor Alternate Subjects

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

Subject	Title	Credit Points
CIVL 4001	Applied Mechanics	10
CIVL 3021	Bridge Engineering Design	10
CIVL 4002	Composite Structures	10
CIVL 3010	Highway Infrastructure	10
CIVL 4008	Pile Foundations	10
CIVL 4009	Timber Structures (UG)	10
BLDG 3004	Construction Information Systems	10
BLDG 3010	Building Cost Studies	10
GEOM 3001	Advanced Building Measurement	10
BLDG 3009	Quality and Value Management	10

Minors

Structures, Minor (https://hbook.westernsydney.edu.au/majors-minors/ structures-minor/)

Construction Economics, Minor (https://hbook.westernsydney.edu.au/ majors-minors/construction-economics-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 CIVL 3003 - Construction Planning, replaced by CIVL 3017 -Construction Scheduling

Bachelor of Engineering Science

Full-time start-year intake

Course	Title	Credit Points
Year 2		
Autumn session		
CIVL 1001	Surveying for Engineers	10
MECH 2003	Mechanics of Materials	10

BLDG 2002	Building Measurement	10
CIVL 2012	Soil Mechanics	10
	Credit Points	40
Spring session		
ENGR 2016	Pavement Materials and Design	10
CIVL 2007	Introduction to Structural Engineering	10
BLDG 2001	Building Estimates and Tendering	10
Select one elective		10
 Elective subject 	s must be level 2 or higher	
Industrial Experience	e	
ENGR 3017	Industrial Experience (Engineering)	0
	Credit Points	40
Year 3		
Autumn session		
CIVL 3014	Structural Analysis	10
CIVL 3017	Construction Scheduling	10
ENGR 3013	Engineering Science Project 1	10
CIVL 4003	Construction Technology 5 (Envelope)	10
	Credit Points	40
Spring session		
CIVL 3012	Steel Structures	10
BUSM 3061	Project Management	10
ENGR 3014	Engineering Science Project 2	10
Select one elective		10
*Elective subjects n	nust be level 2 or higher	
	Credit Points	40
	Total Credit Points	160

Optional Elective

The following subject is an optional elective subject offered to students who are engaged in a School approved project. This subject can be taken during the third year of this major, however, permission is required to enrol in the subject.

ENGR 3022 Special Technical Project

Equivalent Subjects

The subjects listed below count towards completion of this major for students who passed these subjects in 2019 or earlier.

GEOM 2001 - Quantity Surveying 1 BLDG 2010 - Estimating 1

The subject listed below counts towards completion of this program for students who passed this subject in Autumn 2022 or earlier.

CIVL 3003 - Construction Planning, replaced by CIVL 3017 - Construction Scheduling

 Diploma in Aerotropolis Industry 4.0 (Mechatronics Skills)/Bachelor of Engineering Science
 Diploma in Engineering/Bachelor of Engineering Studies

Full-time start-year intake			
Course	Title	Credit Points	
Year 2			
Autumn session			
CIVL 1001	Surveying for Engineers	10	
MECH 2003	Mechanics of Materials	10	

BLDG 2002	Building Measurement	10
CIVL 2012	Soil Mechanics	10
	Credit Points	40
Spring session		
ENGR 2016	Pavement Materials and Design	10
CIVL 2007	Introduction to Structural Engineering	10
BLDG 2001	Building Estimates and Tendering	10
MATH 1019	Mathematics for Engineers 2	10
Industrial Experie	ence	
ENGR 3017	Industrial Experience (Engineering)	0
	Credit Points	40
Year 3		
Autumn session		
CIVL 3014	Structural Analysis	10
CIVL 3017	Construction Scheduling	10
ENGR 3013	Engineering Science Project 1	10
CIVL 4003	Construction Technology 5 (Envelope)	10
	Credit Points	40
Spring session		
CIVL 3012	Steel Structures	10
BUSM 3061	Project Management	10
ENGR 3014	Engineering Science Project 2	10
Select one elective	/e	10
*Elective subjects	s must be level 2 or higher	
	Credit Points	40
	Total Credit Points	160

Optional Elective

The following subject is an optional elective subject offered to students who are engaged in a School approved project. This subject can be taken during the third year of this major, however, permission is required to enrol in the subject.

ENGR 3022 Special Technical Project

Equivalent Subjects

The subjects listed below count towards completion of this major for students who passed these subjects in 2019 or earlier.

GEOM 2001 - Quantity Surveying 1 BLDG 2010 - Estimating 1

The subject listed below counts towards completion of this program for students who passed this subject in Autumn 2022 or earlier.

CIVL 3003 - Construction Planning, replaced by CIVL 3017 -Construction Scheduling

Postgraduate Project Management programs 2018 -2022

Graduate Diploma in Project Management (3786)

Graduate Diploma in Project Management (exit only) (3760)

Master of Project Management (3752)

Postgraduate Major Structure Subject Title

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Subject	Title	Credit
		Points

Management Subjects - these subjects are offered in Quarter 2 and Quarter 4

Select three of the following:

Total Credit Poin	ts	60
Smart Construct	ion	
From 2022 INFS 7005 Smart Construction is replaced by INFO 7019		
INFO 7019	Smart Construction	
PUBH 7023	Safe and Sustainable Construction	
ENVL 7002	Planning and Environmental Regulation	
ARCH 7004	Planning and Development Control	
BLDG 7007	Interpreting Building Regulations (Residential Buildings)	
BLDG 7006	Financing Cities in the Global Economy	
PUBH 7007	Disaster and Emergency Management (PG)	
ARCH 7020	Cool Green Cities	
ARCH 7001	Developing Sustainable Places	
BLDG 7002	Building Regulations	
CIVL 7008	Advanced Waste Management	
CIVL 7007	Advanced Timber Structures	
BLDG 7001	Advanced Contract Management	
Select three of th	ne following:	30
Construction Sul		
BUSM 7092	Supply Chain Management	
BUSM 7086	Strategic Business Management	
BUSM 7065	Managing in the Global Context	
BUSM 7040	Governance, Ethics and Social Entrepreneurship	
ACCT 7015	Information for Decision Making	

Equivalent Subjects

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

INFS 7005 - Smart Construction replaced by INFO 7019 Smart Construction

Postgraduate Project Management programs 2023-2024

Graduate Diploma in Project Management (3786)

Graduate Diploma in Project Management (exit only) (3760)

Master of Project Management (3752)

Postgrad	luate Major Structure	
Subject	Title	

Credit
Points

Management Subjects - these subjects are offered in Quarter 2 and Quarter 4

Total Credit Points

30

Students in Pathway A Research (Testamur major stream) complete 40 credit points of Research subjects and Pathway C Work Placement (Testamur major stream) complete 40 credit points of WIL subjects as noted in the 3752 program structure.

Students in Pathway B - Coursework (Testamur major stream) must also complete 40 credit points from the following subject list

Subject	Title	Credit
		Points

Select four of the following:		40
CIVL 7007	Advanced Timber Structures	
CIVL 7008	Advanced Waste Management	
BLDG 7002	Building Regulations	
ARCH 7001	Developing Sustainable Places	
ARCH 7020	Cool Green Cities	
BLDG 5001	Construction Claims	
PUBH 7007	Disaster and Emergency Management (PG)	
BLDG 7006	Financing Cities in the Global Economy	
BLDG 7007	Interpreting Building Regulations (Residential Buildings)	
ARCH 7004	Planning and Development Control	
ENVL 7002	Planning and Environmental Regulation	
ENGR 7020	Sustainability and Risk Engineering (PG)	

Master of Project Management 2025

Pathway A - Research (Specialisation stream)

Subject	Title	Credit Points	
Students must c	omplete the following 30 credit points	Folins	
PUBH 7023	Safe and Sustainable Construction	10	
BLDG 7001	Advanced Contract Management	10	
INFO 7019	Smart Construction	10	
Select 10 credit p	points from the following	10	
CIVL 7007	Advanced Timber Structures		
CIVL 7008	Advanced Waste Management		
BLDG 7002	Building Regulations		
ARCH 7001	Developing Sustainable Places		
ARCH 7020	Cool Green Cities		
BLDG 5001	Construction Claims		
PUBH 7007	Disaster and Emergency Management (PG)		
BLDG 7006	Financing Cities in the Global Economy		
BLDG 7007	Interpreting Building Regulations (Residential Buildings)		
ARCH 7004	Planning and Development Control		
ENVL 7002	Planning and Environmental Regulation		
ENGR 7020	Sustainability and Risk Engineering (PG)		
Total Credit Poin	ts	40	
Pathway B – Coursework (Specialisation stream)			

Subject	Title	Credit Points
Students must c	omplete the following 30 credit points	
PUBH 7023	Safe and Sustainable Construction	10
BLDG 7001	Advanced Contract Management	10
INFO 7019	Smart Construction	10
Select 50 credit	points from the following	50
CIVL 7007	Advanced Timber Structures	

CIVL 7008	Advanced Waste Management	
BLDG 7002	Building Regulations	
ARCH 7001	Developing Sustainable Places	
ARCH 7020	Cool Green Cities	
BLDG 5001	Construction Claims	
PUBH 7007	Disaster and Emergency Management (PG)	
BLDG 7006	Financing Cities in the Global Economy	
BLDG 7007	Interpreting Building Regulations (Residential Buildings)	
ARCH 7004	Planning and Development Control	
ENVL 7002	Planning and Environmental Regulation	
ENGR 7020	Sustainability and Risk Engineering (PG)	
Total Credit Points		

Pathway C - Work Placement (Specialisation stream)

Subject	Title	Credit Points
Students must co	omplete the following 30 credit points	
PUBH 7023	Safe and Sustainable Construction	10
BLDG 7001	Advanced Contract Management	10
INFO 7019	Smart Construction	10
Select 10 credit p	points from the following	10
CIVL 7007	Advanced Timber Structures	
CIVL 7008	Advanced Waste Management	
BLDG 7002	Building Regulations	
ARCH 7001	Developing Sustainable Places	
ARCH 7020	Cool Green Cities	
BLDG 5001	Construction Claims	
PUBH 7007	Disaster and Emergency Management (PG)	
BLDG 7006	Financing Cities in the Global Economy	
BLDG 7007	Interpreting Building Regulations (Residential Buildings)	
ARCH 7004	Planning and Development Control	
ENVL 7002	Planning and Environmental Regulation	
ENGR 7020	Sustainability and Risk Engineering (PG)	
Total Credit Point	ts	40

Graduate Diploma in Project Management 2025

Students in the Graduate Diploma in Project Management should complete 50 credit points from the following list (40cps to complete the major plus an extra 10cps selected from the pool to complete the program).

Subject	Title	Credit Points
CIVL 7007	Advanced Timber Structures	
CIVL 7008	Advanced Waste Management	
BLDG 7002	Building Regulations	
ARCH 7001	Developing Sustainable Places	
ARCH 7020	Cool Green Cities	
BLDG 5001	Construction Claims	
PUBH 7007	Disaster and Emergency Management (PG)	
BLDG 7006	Financing Cities in the Global Economy	
BLDG 7007	Interpreting Building Regulations (Residential Buildings)	
ARCH 7004	Planning and Development Control	
ENVL 7002	Planning and Environmental Regulation	

ENGR 7020 Sustainability and Risk Engineering (PG)

Total Credit Points

0

Related Programs

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

Diploma in Aerotropolis Industry 4.0 (Mechatronics Skills)/Bachelor of Engineering Science (6046) (https://hbook.westernsydney.edu.au/ programs/diploma-aerotropolis-industry-40-mechatronicsskillsbachelor-engineering-science/)

Diploma in Engineering/Bachelor of Engineering Studies (6033) (https://hbook.westernsydney.edu.au/programs/diploma-engineeringbachelor-engineering-studies/)

Graduate Diploma in Project Management (3786) (https:// hbook.westernsydney.edu.au/programs/graduate-diploma-projectmanagement/)

Master of Project Management (3752) (https://

hbook.westernsydney.edu.au/programs/master-project-management/)