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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?

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

Campus	Mode	Advice
Parramatta Campus -	Internal	beng@westernsydney.edu.a
Victoria Road		
Penrith Campus	Internal	beng@westernsydney.edu.a

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

Location

Campus	Mode	Advice	Select one
Parramatta City	Internal	Xiaohua (Sean)	 Elective
Campus-Macquarie		Jin (https://	applie
Street		directory.westernsydney.ed	Prelin
		search/email/	
		xiaohua.jin@westernsydne	y.edu.au)

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-vear intake

	Full-time start-year	INTAKE	
	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
lu	Year 2		
1	Autumn session		
lu	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
e	applies for stude	must be level 2 or higher (an exception nts completing Mathematics for Engineers	

	Credit Points	40
ENGR 3017	Industrial Experience (Engineering)	0
Industrial Experie	nce	
Minor Alternate S	ubject	10
CIVL 3007	Engineering Geomechanics	10
CIVL 3017	Construction Scheduling	10
CIVL 3012	Steel Structures	10
Spring session		
	Credit Points	40
Minor Alternate S	ubject	10
CIVL 3002	Concrete Structures (UG)	10
BUSM 3077	Construction Project Management	10
CIVL 3014	Structural Analysis	10
Autumn session		
Teal 5		

Credit Points

Year 4

•	ust be level 2 or higher (an exception completing Mathematics for Engineers	
Select one elective		10
Minor Alternate Subj	ect	10
ENGR 4025	Final Year Project 1 (UG Engineering)	10
BLDG 4009	Residential Building Project	10
Autumn session		

	Credit Points	40
Spring session		
CIVL 4016	Envelope and Services	10
ENGR 4026	Final Year Project 2 (UG Engineering)	10
Minor Alternate S	Subject	10
Select one electi	ve	10
•	s must be level 2 or higher (an exception ents completing Mathematics for Engineers ect)	
	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 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/ archives/2021-2022/majors-minors/structures-minor/) Construction Economics, Minor (https://hbook.westernsydney.edu.au/

archives/2021-2022/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

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 subjects 	must be level 2 or higher	

Industrial Experience

ENGR 3017	Industrial Experience (Engineering)	0
	Credit Points	40
Year 3		
Autumn session		
CIVL 3014	Structural Analysis	10
CIVL 3003	Construction Planning	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	ve	10
*Elective subject	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

- 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 3003	Construction Planning	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	ve	10
*Elective subject	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

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

Postgraduate Major Structure

Salast three of the following:

Subject	Title	Credit
		Points

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

Select three of the following:		
BUSM 7018	Contemporary People Management	
ACCT 7015	Financial Reports for Decision Making	
BUSM 7040	Governance, Ethics and Social Entrepreneurship	
BUSM 7065	Managing in the Global Context	
BUSM 7086	Strategic Business Management	
BUSM 7092	Supply Chain Management	
Construction Sul	pjects	
Select three of th	ne following:	30
BLDG 7001	Advanced Contract Management	
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		
PUBH 7023	Safe and Sustainable Construction		
INFO 7019	Smart Construction		
From 2022 INFS 7005 Smart Construction is replaced by INFO 7019 Smart Construction			
Total Credit Points			

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

Related Programs

Diploma in Aerotropolis Industry 4.0 (Mechatronics Skills)/Bachelor of Engineering Science (6046) (https://hbook.westernsydney.edu.au/archives/2021-2022/programs/diploma-aerotropolis-industry-40-mechatronics-skillsbachelor-engineering-science/)

Diploma in Engineering/Bachelor of Engineering Studies (6033) (https://hbook.westernsydney.edu.au/archives/2021-2022/programs/diploma-engineering-bachelor-engineering-studies/)

Graduate Diploma in Project Management (3786) (https://hbook.westernsydney.edu.au/archives/2021-2022/programs/graduate-diploma-project-management/)

Master of Project Management (3752) (https://hbook.westernsydney.edu.au/archives/2021-2022/programs/master-project-management/)