

ENGINEERING, TESTAMUR MAJOR (T012)

Western Sydney University Major Code: T012

Previous Code: ST3060.1

Available to students in other Western Sydney University programs?
No

Location

Campus	Mode	Advice
Parramatta City Campus - Macquarie Street	Internal	Xiaohua (Sean) Jin (https:// directory.westernsydney.edu.au/ search/email/ xiaohua.jin@westernsydney.edu.au)

Major Structure 2021-2024

Students must complete three 10 credit point Management alternate subjects and three 10 credit point Engineering alternate subjects.

Subject	Title	Credit Points
Management subjects - offered in Quarter 2 and Quarter 4 sessions		
Select three of the following:		30
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	
Engineering subjects - offered in Autumn and Spring sessions		
Select three of the following:		30
CIVL 7001	Advanced Applied Mechanics	
CIVL 7002	Advanced Composite Structures	
MECH 7001	Advanced Computational Fluid Dynamics	
MECH 7002	Advanced Computer Aided Engineering	
ELEC 7001	Advanced Control Systems	
ELEC 7002	Advanced Data Networks	
MECH 7003	Advanced Dynamic Systems	
ELEC 7003	Advanced Electrical Machines and Drives	
CIVL 7003	Advanced Geotechnical Engineering	
CIVL 7004	Advanced Highway Infrastructure	
EART 7001	Advanced Hydrogeology	
MECH 7004	Advanced Mobile Robotics	
CIVL 7005	Advanced Numerical Methods in Engineering	
ELEC 7004	Advanced Power Quality	
MECH 7005	Advanced Robotics	
ELEC 7005	Advanced Signal Processing	
ELEC 7006	Advanced Smart Grids and Distributed Generation	
EART 7002	Advanced Statistical Hydrology	
CIVL 7006	Advanced Structural Analysis	
MECH 7006	Advanced Thermal and Fluid Engineering	
CIVL 7007	Advanced Timber Structures	
CIVL 7008	Advanced Waste Management	
CIVL 7009	Advanced Water Engineering	

CIVL 7013	Deep Foundations	
ELEC 7008	Instrumentation and Measurement (PG)	
MECH 7007	Mechanical System Design	
MECH 7008	Mechatronic System Design	
ELEC 7009	Personal Communication Systems	
ELEC 7010	Power System Planning and Economics	
ENGR 7020	Sustainability and Risk Engineering (PG)	
CIVL 7017	Wastewater Treatment and Recycling	
CIVL 7015	Water Resources Systems Analysis	
CIVL 7018	Water Treatment and Distribution	
Total Credit Points		60

Replaced Subject

The subject listed below counts towards completion of this major for students who passed this subject in 2019 or earlier.

CIVL 7010 - Advanced Water and Wastewater Treatment

Major Structure 2025

Alternate subjects

Students in the **Master of Project Management** should complete the required number of credit points from the following subject list, as noted in their Pathway structure.

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 7001	Advanced Applied Mechanics	10
CIVL 7002	Advanced Composite Structures	10
MECH 7001	Advanced Computational Fluid Dynamics	10
MECH 7002	Advanced Computer Aided Engineering	10
ELEC 7001	Advanced Control Systems	10
ELEC 7002	Advanced Data Networks	10
MECH 7003	Advanced Dynamic Systems	10
ELEC 7003	Advanced Electrical Machines and Drives	10
CIVL 7003	Advanced Geotechnical Engineering	10
CIVL 7004	Advanced Highway Infrastructure	10
EART 7001	Advanced Hydrogeology	10
MECH 7004	Advanced Mobile Robotics	10
CIVL 7005	Advanced Numerical Methods in Engineering	10
ELEC 7004	Advanced Power Quality	10
MECH 7005	Advanced Robotics	10
ELEC 7005	Advanced Signal Processing	10
ELEC 7006	Advanced Smart Grids and Distributed Generation	10
EART 7002	Advanced Statistical Hydrology	10
CIVL 7006	Advanced Structural Analysis	10
MECH 7006	Advanced Thermal and Fluid Engineering	10
CIVL 7007	Advanced Timber Structures	10
CIVL 7008	Advanced Waste Management	10
CIVL 7009	Advanced Water Engineering	10
CIVL 7013	Deep Foundations	10
ELEC 7008	Instrumentation and Measurement (PG)	10
MECH 7007	Mechanical System Design	10
MECH 7008	Mechatronic System Design	10

ELEC 7009	Personal Communication Systems	10
ELEC 7010	Power System Planning and Economics	10
ENGR 7020	Sustainability and Risk Engineering (PG)	10
CIVL 7017	Wastewater Treatment and Recycling	10
CIVL 7015	Water Resources Systems Analysis	10
CIVL 7018	Water Treatment and Distribution	10

Related Programs

Graduate Diploma in Project Management (3786) (<https://hbook.westernsydney.edu.au/archives/2023-2024/programs/graduate-diploma-project-management/>)

Master of Project Management (3752) (<https://hbook.westernsydney.edu.au/archives/2023-2024/programs/master-project-management/>)