

MASTER OF ENGINEERING (3693)

Approved Abbreviation: MEng
Western Sydney University Program Code: 3693
AQF Level: 9

CRICOS Code: 042034J

This program applies to students who commenced in 2021 or later.

Students should follow the program structure for the session start date relevant to the year they commenced.

For commencement year 2020, please refer to: 3693.2 Master of Engineering (<http://handbook.westernsydney.edu.au/hbook/course.aspx?course=3693.2>)

For commencement year 2015 - 2019, please refer to: 3693.1 Master of Engineering (<http://handbook.westernsydney.edu.au/hbook/course.aspx?course=3693.1>)

The Master of Engineering has been designed to meet Engineers Australia professional accreditation requirements. It enables professionals in Engineering and recent graduates to adapt to a dynamically developing and changing technological environment through the upgrading of their skills and knowledge. The course provides students with training opportunities to foster a culture of life-long learning. Graduates of the course will have a firm foundation to further build their skills as their specialised professional field evolves. Advanced standing may be granted for relevant prior studies.

Early Exits

Students may exit this program on completion of 80 credit points with a 3695 Graduate Certificate in Engineering (<https://hbook.westernsydney.edu.au/archives/2021-2022/programs/graduate-certificate-engineering/>) or on completion of 120 credit points with a 3694 Graduate Diploma in Engineering (exit only) (<https://hbook.westernsydney.edu.au/archives/2021-2022/programs/graduate-diploma-engineering-exit-only/>)

Study Mode

Two years full-time or four years part-time.

Program Advice

Program Advice (edbe@westernsydney.edu.au)

Prospective students should visit the following websites for general enquiries about this program.

Enquire about this program (<https://enquiry.westernsydney.edu.au/courseenquiry/>) | Local Admission (<https://www.westernsydney.edu.au/future/>) | International Admission (<https://www.westernsydney.edu.au/international/home/apply/admissions/>) |

Location

Campus	Attendance	Mode	Advice
Parramatta City Campus- Macquarie Street	Full Time	Internal	See above
Parramatta City Campus- Macquarie Street	Part Time	Internal	See above

Accreditation

This Master of Engineering has Full Accreditation at the level of Professional Engineer at Parramatta City Campus in Civil, Environmental, Mechanical, Mechatronic, Electrical, and Telecommunications. Graduates of this program in these six areas are eligible to apply for full membership of Engineers Australia. They are eligible to apply for Chartered Professional Engineering registration upon successful completion of required engineering practice period specified by Engineers Australia. Professional accreditation from Engineers Australia for Master of Engineering (Biomedical and Management) will be sought.

Inherent Requirements

There are inherent requirements for this program that you must meet in order to complete your program and graduate. Make sure you read and understand the requirements for this program online.

Inherent requirements (https://www.westernsydney.edu.au/ir/inherent_requirements/inherent_requirements_for_engineering_courses/)

Work Integrated Learning

Western Sydney University seeks to enhance student learning experiences by enabling students to engage in the culture, expectations and practices of their profession or discipline. This program includes a placement or other community-based unpaid practical experience.

There is a mandatory work component required for completion of this program. Please contact the Program Advisor listed above for information.

International students should also refer to the link below for more information and a link to the Commonwealth Register of Institutions and Courses for Overseas Students (CRICOS).

Work Integrated Learning (WIL) for international students (https://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/international_student_support/working_in_australia/work_integrated_learning/)

Admission

Applicants must have successfully completed a recognised four year undergraduate degree, or higher, in engineering in one of the specialisations, e.g. Civil, Biomedical, Environmental, Mechatronic, Mechanical, Electrical, Telecommunication.

Applicants seeking admission on the basis of work experience must support their application with a Statement of Service for all work experience listed on the application.

Statement of Service form (https://www.westernsydney.edu.au/content/dam/digital/pdf/Statement_of_Service.PDF)

Additional Information

Advanced standing may be granted for relevant prior studies for students who have successfully completed an Engineers Australia accredited 4-year Bachelor of Engineering program.

Students who have successfully completed a recognised three year undergraduate degree in Science or four year Bachelor of Engineering in a different specialisation or equivalent qualifications must undertake and complete specified non-award undergraduate engineering subjects with approval of the Director of Academic Program before articulation to the Master of Engineering.

Applications from Australian and New Zealand citizens and holders of permanent resident visas may be made via the Universities Admissions

Centre (UAC) or directly through the Western Portal. Use the links below to apply via UAC or Western Sydney University. Applications made directly to Western Sydney do not have an application fee.

<http://www.uac.edu.au/>
<https://westernsydney.uac.edu.au/ws/>

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to the University should also use the information provided on the UAC website.

<http://www.uac.edu.au/>

All other International applicants must apply directly to the University via the International Office.

International students applying to the University through the International Office can find details of minimum English proficiency requirements and acceptable proof on their website.

International Office (<http://www.westernsydney.edu.au/international/>)

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and Western Sydney University.

Program Structure

To complete some of the components within the subjects in this program, students may be required to travel to other Western Sydney University campuses.

All students must enrol in a major before enrolling in their subjects.

Students enrolling into a double major must complete

- 60cps of core units plus
- 40cps of core double major subjects plus
- 30cps of alternate first major subjects plus
- 30cps of alternate second major subjects

Students enrolling into a single major must complete

- 60cps of core subjects plus
- 70cps of single major subjects plus
- 30cps of elective subjects at Level 7

Core Subjects

Subject	Title	Credit Points
ENGR 7019	Specialised Software Applications	10
CIVL 7014	Sustainable Systems	10
ENGR 7028	Engineering Project 1 (PG)	20
ENGR 7029	Engineering Project 2 (PG)	20
Total Credit Points		60

Majors

For the Master of Engineering, students can choose a double major or a single major from the following.

Double major

Civil and Environmental, Testamur Major (T111) (<https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/civil-environmental-pg-testamur-major/>)

Electrical and Telecommunication, Testamur Major (T113) (<https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/electrical-telecommunication-pg-testamur-major/>)

Electrical and Biomedical, Testamur Major (T114) (<https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/electrical-biomedical-pg-testamur-major/>)

Mechanical and Mechatronic, Testamur Major (<https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/mechanical-mechatronic-pg-testamur-major/>)

Mechatronic and Biomedical, Testamur Major (<https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/mechatronic-biomedical-pg-testamur-major/>)

Telecommunication and Biomedical, Testamur Major (<https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/telecommunication-biomedical-pg-testamur-major/>)

Single major

Biomedical, Testamur Major (T055) (<https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/biomedical-pg-testamur-major/>)

Civil, Testamur Major (T033) (<https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/civil-ug-pg-testamur-major/>)

Electrical, Testamur Major (T035) (<https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/electrical-ug-pg-testamur-major/>)

Environmental, Testamur Major (T058) (<https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/environmental-pg-testamur-major/>)

Management, Testamur Major (<https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/management-ug-pg-testamur-major/>)

Mechanical, Testamur Major (<https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/mechanical-ug-pg-testamur-major/>)

Mechatronic, Testamur Major (<https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/mechatronic-pg-testamur-major/>)

Telecommunication, Testamur Major (<https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/telecommunication-pg-testamur-major/>)

Recommended Sequence

Qualification for the award of Master of Engineering requires the successful completion of 160 credit points and a 12-week industrial experience training program.

Students must carefully follow the requirements of their chosen double or single major in order to qualify for the Master of Engineering award. If unsure, students must seek the advice of the Academic Program Advisor.

Major subject offering is subject to sufficient demand and may not be offered annually

Elective subjects must be at Level 7.

Students enrolling in a double major have no elective spaces.

Start year intake

Course	Title	Credit Points
Year 1		
Autumn session		
ENGR 7019	Specialised Software Applications	10
Three major subjects		30
Credit Points		40
Spring session		
CIVL 7014	Sustainable Systems	10
Three major subjects		30
Credit Points		40
Year 2		
Autumn session		
ENGR 7028	Engineering Project 1 (PG)	20
One major subject		10
And one major or elective subject		10
Credit Points		40
Spring session		
ENGR 7029	Engineering Project 2 (PG)	20
Two specialisation or elective subjects		20
Credit Points		40
Total Credit Points		160

Students must also complete the following unit which is a 12-week industrial experience training program (as a condition for Engineering Australia accreditation).

Subject	Title	Credit Points
ENGR 7013	Industrial Experience (PG)	0

Students must also complete the following unit which is a 12-week industrial experience training program (as a condition for Engineering Australia accreditation).

Subject	Title	Credit Points
ENGR 7013	Industrial Experience (PG)	0

Mid-year intake

Course	Title	Credit Points
Year 1		
Spring session		
CIVL 7014	Sustainable Systems	10
Three major subjects		30
Credit Points		40
Autumn session		
ENGR 7019	Specialised Software Applications	10
Three major subjects		30
Credit Points		40
Year 2		
Spring session		
ENGR 7028	Engineering Project 1 (PG)	20
One major subject		10
One specialisation or elective subject		10
Credit Points		40
Autumn session		
ENGR 7029	Engineering Project 2 (PG)	20
Two specialisation or elective subjects		20
Credit Points		40
Total Credit Points		160