

BACHELOR OF ENGINEERING SCIENCE (3691)

Approved Abbreviation: BEngSc

Western Sydney University Program Code: 3691

AQF Level: 7

CRICOS Code: 074195E

This program applies to students who commenced in 2022 or later.

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

For Commencement Year Spring 2018, please refer to: 3691.5 Bachelor of Engineering Science (<http://handbook.westernsydney.edu.au/hbook/course.aspx?course=3691.5>)

For Commencement Year 2017 to Autumn 2018, please refer to: 3691.4 Bachelor of Engineering Science (<http://handbook.westernsydney.edu.au/hbook/course.aspx?course=3691.4>)

For Commencement Year 2015, please refer to: 3691.2 Bachelor of Engineering Science (<http://handbook.westernsydney.edu.au/hbook/course.aspx?course=3691.2>)

For Commencement Year 2014, please refer to: 3691.1 Bachelor of Engineering Science (<http://handbook.westernsydney.edu.au/hbook/course.aspx?course=3691.1>)

The Bachelor of Engineering Science (BEngSc) is a three-year degree program with common first year structure. Students have the opportunity to focus on a discipline area by selecting a Major in Advanced Manufacturing, Civil, Construction, Electrical, Materials, Mechanical, Robotics & Mechatronics, and Sustainability engineering. The program has been developed with the view of enabling graduates to practice as an engineering technologist in their chosen field. The three-year BEngSc program may be used as a pathway to the four-year Bachelor of Engineering program that meets Engineers Australia professional accreditation requirements; an academic performance criteria will be the eligibility criteria for such a transfer.

Study Mode

Three years full-time or six 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 | Full Time | Internal | See above |
| Parramatta City Campus | Part Time | Internal | See above |
| Penrith Campus | Full Time | Internal | See above |
| Penrith Campus | Part Time | Internal | See above |

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| Sydney City Campus | Full Time | Internal | Peter Lendrum (https://directory.westernsydney.edu.old/srchprocess_handbook.php?a_value=p.lendrum@city.we) |
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Accreditation

The program has been designed to meet Engineers Australia professional accreditation requirements – Competency Stage 1 Engineering Technologist and Australian Quality Frameworks (AQF) Level 7.

Engineers Australia accreditation is pending approval for the Advanced Manufacturing, Materials, and Sustainability disciplines.

Graduates of this program are eligible to apply for full membership of Engineers Australia. They are eligible to apply for Certified Engineering Technologist registration upon successful completion of required engineering practice period specified by Engineers Australia.

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

- Recommended studies: Physics and HSC Mathematics.
- Assumed Knowledge: Two subjects of Science, two units of English and Mathematics (not General Mathematics) at Band 4 or higher.

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.

International students currently completing an Australian Year 12 in or outside Australia, an International Baccalaureate in Australia or a New Zealand National Certificate of Educational Achievement (NCEA) level 3 must apply via UAC International.

<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.

Academic Program Advisors

- Dr Pan Hu is the Academic Program Advisor for Majors in Civil and Construction at Penrith and Sydney City Campuses.
Dr Pan Hu
- Dr Won Hee Kang is the Academic Program Advisor for Majors in Civil and Construction at Parramatta South Campus.
Dr Won Hee Kang
- Dr Dr Qi Cheng is the Academic Program Advisor for Majors in Electrical at Parramatta Campus.
Dr Qi Cheng
- Dr Hui Xie is the Academic Program Advisor for Majors in Mechanical and Mechatronics at Parramatta campus
Dr Hui Xie
- Dr Leo Zhang is the Academic Program Advisor for Majors in Mechanical and Mechatronic at Penrith and Sydney City Campuses.
Dr Leo Zhang

Recommended Sequence

Qualification for this award requires the successful completion of 240 credit points which include the subjects listed in the recommended sequences below.

Students must select one of the following Majors

Penrith and Parramatta Campuses

Advanced Manufacturing, Testamur Major (T126) (<https://hbook.westernsydney.edu.au/archives/2022-2023/majors-minors/advanced-manufacturing-ug-testamur-major/>)

Civil Engineering, Testamur Major (T131) (<https://hbook.westernsydney.edu.au/archives/2022-2023/majors-minors/civil-engineering-ug-testamur-major/>)

Construction Engineering, Testamur Major (T132) (<https://hbook.westernsydney.edu.au/archives/2022-2023/majors-minors/construction-engineering-ug-testamur-major/>)

Electrical Engineering, Testamur Major (T102) (<https://hbook.westernsydney.edu.au/archives/2022-2023/majors-minors/electrical-engineering-ug-testamur-major/>)

Materials Engineering, Testamur Major (T128) (<https://hbook.westernsydney.edu.au/archives/2022-2023/majors-minors/materials-engineering-ug-testamur-major/>)

Mechanical Engineering, Testamur Major (T103) (<https://hbook.westernsydney.edu.au/archives/2022-2023/majors-minors/mechanical-engineering-ug-testamur-major/>)

Robotics and Mechatronics Engineering, Testamur Major (T104) (<https://hbook.westernsydney.edu.au/archives/2022-2023/majors-minors/robotics-mechatronics-engineering-ug-testamur-major/>)

Sustainability Engineering, Testamur Major (T129) (<https://hbook.westernsydney.edu.au/archives/2022-2023/majors-minors/sustainability-engineering-ug-testamur-major/>)

Sydney City Campus

Click here for the recommended sequence at Sydney City Campus (https://www.westernsydney.edu.au/city/courses/undergraduate/engineering_science/?utm_source=Handbook).

Civil Engineering, Testamur Major (T131) (<https://hbook.westernsydney.edu.au/archives/2022-2023/majors-minors/civil-engineering-ug-testamur-major/>)

Electrical Engineering, Testamur Major (T102) (<https://hbook.westernsydney.edu.au/archives/2022-2023/majors-minors/electrical-engineering-ug-testamur-major/>)

Mechanical Engineering, Testamur Major (T103) (<https://hbook.westernsydney.edu.au/archives/2022-2023/majors-minors/mechanical-engineering-ug-testamur-major/>)