



2018 Mechanical Engineering

For Bachelor of Engineering (Honours)

Macquarie engineers will graduate with an international qualification with the capability for life-long learning. Study in Mechanical Engineering develops an in-depth understanding of a specific aspect of engineering, with sufficient focus for employment in an initial role. An underpinning knowledge in mechanical systems, machines, materials, robotics and fluid mechanics is developed into an in-depth understanding by research and industry engagement in design and manufacture.

If you have at least Band 4 in HSC Mathematics you should use the following table:

Suggested First Year: for students with HSC Mathematics Band 4-6 or Extension 1 Band E2-E4 or Extension 2

Session 1, 2018		Session 2, 2018	
Unit Code	Unit Name	Unit Code	Unit Name
ENGG100	Introduction to Engineering	ENGG150	Electrical and Mechanical Principles
MATH135*	Mathematics IA *	MATH136*	Mathematics 1B *
PHYS140**	Physics 1A **	PHYS143**	Physics 1B **
COMP115	Introduction to Computer Programming	Elective	Choose a Planet or People unit

If you do *not* have a Band 4 (or higher) in HSC Mathematics or have not completed MATH135 you should use the following table:

Suggested First Year: for all other students

Session 1, 2018		Session 2, 2018	
Unit Code	Unit Name	Unit Code	Unit Name
ENGG100	Introduction to Engineering	PHYS143	Physics 1B
MATH130	Mathematics IE	MATH135	Mathematics 1A
COMP115	Introduction to Computer Programming	STAT170 or COMP125 or ISYS114	Introductory Statistics Fundamentals of Computer Science Introduction to Database Design and Management
Elective	Choose a Planet or People unit	Elective	Choose a Planet or People unit

ENGG150, MATH136 and PHYS140 will be done in the second year of study.

FIND OUT MORE
CONTACT: STUDENT CONNECT
LEVEL 2, MUSE C7A PHONE: 9850 6410
Macquarie University NSW 2109 Australia
Handbook.mq.edu.au

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- The tables represent two suggested first years for this degree. These can be modified to suit your background and interests.
 - * Advanced Mathematics: MATH132/MATH133 is a suitable alternative for those with strong mathematics skills.
 - **Students with particular interest or skill in physics may choose PHYS106 and PHYS107.
- The BE (Hons) program includes MATH135 which has a prerequisite of at least Band 4 in HSC Mathematics. If you do *not* have the prerequisites for entry into MATH135 will need to do MATH130 in your first session and MATH135 in your second session. If you have at least Band 4 in HSC Mathematics you meet this requirement.
- Bridging courses are available in February and strongly recommended for those without recent HSC study in Mathematics, or for those who took General Mathematics: <http://web.science.mq.edu.au/bridging-courses>.
- Consider what units you will be completing later in the degree when selecting electives, as many second and third year units have prerequisites (prior knowledge) which must be completed prior to enrolment in the higher-level unit. A typical 4 year program involves engineering units at each level, one people, one planet unit and one elective. Within your program space is provided to satisfy the degree and major requirements.
- Consult the handbook to ensure all degree requirements are met when planning options and electives. Many Engineering designated units are offered outside of the department. Engineering designated units are listed in the Handbook. See [www.handbook.mq.edu.au/2018/DegreesDiplomas/Degree/Bachelor+of+Engineering+\(Honours\)](http://www.handbook.mq.edu.au/2018/DegreesDiplomas/Degree/Bachelor+of+Engineering+(Honours)).
- All students must complete one People unit and one Planet unit. Planet units commonly taken by BE (Hons) students include STAT170 and ISYS100. Students doing MATH130 have the option of doing STAT170 and a second planet unit. The ACSC100 People unit is designed to help science and engineering students with writing skills. Some units are available in more than one session. Be sure to follow the People and Planet criteria when making your selection. Criteria and available units can be viewed at www.handbook.mq.edu.au/2018/Units/Planet and www.handbook.mq.edu.au/2018/Units/People.
- If you are starting you degree with credit for previous studies/recognition of prior learning, through alternative pathways or MUIC you should seek academic advice www.goto.mq.edu.au/advice.
- You must also meet the general requirements for the degree for which you will qualify to be eligible for graduation
- You can receive specific program advice from the faculty at any stage in your degree by lodging a “Program Advice” enquiry via <http://ask.mq.edu.au>.



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