

# 2019 Mechatronic Engineering

For Bachelor of Engineering (Honours) with the degree of Bachelor of Arts

Macquarie engineers will graduate with an international qualification with the capability for life-long learning. Study in mechatronic 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 electronics, mechanics, sensors and actuators, control and manufacturing is developed into an in-depth understanding by research and industry engagement in robotic systems, machine control, automation, and micro-technology.



**The table below is a suggested first session for students beginning in Session 2, 2019.** Please make your selection of units after reviewing the requirements of your award in the 2019 Handbook:

[www.handbook.mq.edu.au/2019/DegreesDiplomas/Degree/Bachelor+of+Engineering+\(Honours\)+with+the+degree+of+Bachelor+of+Arts](http://www.handbook.mq.edu.au/2019/DegreesDiplomas/Degree/Bachelor+of+Engineering+(Honours)+with+the+degree+of+Bachelor+of+Arts)

This program assumes that students have at least Band 4 in HSC Mathematics. If you meet this requirement you should use the following table. If you do not meet this requirement please see the following page.

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

## Session 2, 2019

Unit Code	Unit Name
ENGG100	Introduction to Engineering
MATH135 *	Mathematics IA
PHYS140	Physics 1A
COMP115	Introduction to Computer Programming

- You must also meet the general requirements for the degree for which you will qualify.
- It may be possible to satisfy the requirements of your degree by taking a different selection of units in your first session from those suggested above. However, it is suggested that most of the first year of study be devoted to engineering units. The engineering component of the double degree is larger than the arts component and delaying engineering study may hamper your progress.
- 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.
- \* MATH132/MATH133 are suitable alternatives to MATH135/MATH136 for those with strong mathematics skills.
- If you are starting your degree with recognition of prior learning, through alternative pathways, or through MUIC you should seek academic advice <http://www.goto.mq.edu.au/advice>.

If you do *not* have a Band 4 or higher in HSC Mathematics you should use the following table and seek academic advice to ensure optimal progress:

<b>Suggested First Session:</b> for all other students	
<b>Session 2, 2019</b>	
<b>Unit Code</b>	<b>Unit Name</b>
ENGG100	Introduction to Engineering
MATH130	Mathematics IE
COMP115	Introduction to Computer Programming
Core unit # or Elective	Choose a required unit from your qualifying major from the Bachelor of Arts program guide #  Choose an elective unit

- # For details on available majors for the Bachelor of Arts, consult the program guides for that degree. Find the relevant guides at [www.mq.edu.au/study/admissions/accept-and-enrol/program-guides](http://www.mq.edu.au/study/admissions/accept-and-enrol/program-guides).
- All students can receive specific program advice from the faculty at any stage in their degree by lodging a “Program Advice” enquiry via <http://ask.mq.edu.au>.



FIND OUT MORE  
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Disclaimer: This publication is correct at the time of creation, November 2018. Macquarie University reserves the right to change program details at any time and change its fees without notice.  
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