

2019 MAJOR – Pure Mathematics

(Qualifying Major for Bachelor of Science)

Pure Mathematics focuses on a deep understanding of the properties and interrelationships that arise in study algebraic and topological structures, and in the application of the ideas of calculus in a wide range of settings such as harmonic and functional analysis; which are of profound importance in answering questions of interest in diverse areas ranging from computer science and engineering to physics, statistics and chemistry. Graduates with a major in Pure Mathematics will have developed a broad understanding of modern mathematical ideas and techniques and the capacity to develop appropriate mathematical structures to facilitate the analysis of problems occurring across a wide domain of applications. These attributes, together with training in critical and analytical thinking and well developed skills in effectively communicating complex ideas make Macquarie's Pure Mathematics graduates highly sought after employees, as well as providing a strong, well-balanced foundation for those who wish to progress to further study.



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+Science

Suggested First Session

Session 2, 2019

Unit Code	Unit Name
MATH130* or MATH135*	Mathematics IE * Mathematics IA *
STAT170	Introductory Statistics
Elective	Choose two elective units

- 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.
- * The prerequisite for MATH135 is a band 4 (or higher) in HSC Mathematics (or equivalent interstate or overseas secondary school study). All students who do not meet this prerequisite should choose MATH130 followed by MATH135 in 2020.
- Consider what units you will want to study in second and third year. Prerequisite requirements for those units must be completed prior to enrolment in the higher-level unit.
- You must select a Professional and Community Engagement (PACE) unit as part of the elective component of your degree. It is important to plan ahead for this requirement and allocate elective space for your chosen PACE unit. A list of eligible units is available at www.handbook.mq.edu.au/2019/Units/PACE.
- For a double major complete required units for both majors where possible in the first year. If considering a double major consult the criteria found at www.handbook.mq.edu.au/2019/Majors.
- 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>.

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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