

2019 MAJOR – Physics

(Qualifying Major for Bachelor of Science)

Physics is the quantitative study of Nature at all scales, from elementary particles to the large space-time structure of the Universe. It encompasses both the search for the most fundamental laws of Nature down to the subatomic level, and the emergent phenomena in complex systems, such as material or biological systems. Physics is one of the oldest academic disciplines, and it remains today both an exciting field at the frontier of knowledge and a fundamental underpinning of all science and technology. An undergraduate degree in physics is generally recognised to be good training for a broad range of careers. It not only prepares students for graduate studies in physics and astrophysics, but when combined with appropriate courses in other disciplines it provides excellent preparation for a career, including biophysics, chemistry, engineering, geophysics, industrial research, finance, teaching and education, policy, medicine or law. Our program provides a solid foundation in physics and mathematics and introduces to the current research. It is taught by the leading experts in biophysics, condensed matter, mathematical physics, relativity and quantum information.



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 1E Mathematics 1A *
ASTR178 or STAT170 or ACSC100	Other Worlds: Planets and Planetary Systems Introductory Statistics Academic Communication in Science
PHYS140 * or Elective	Physics 1A COMP, ENGG or GEOS unit at 100 level
Elective	COMP, ENGG or GEOS unit at 100 level

- 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 and PHYS140 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 and PHYS units in 2020.

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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- Other popular electives for Physics students include computing [COMP115, ISYS114], engineering [ENGG141], chemistry [CBMS107, CBMS108], and geology [GEOS112, GEOS126]. Outside the Faculty of Science and Engineering, ACSC100 is a unit designed to help science students with writing skills.
- 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.
- Bridging courses in mathematics are available and recommended for those without recent HSC study: www.tinyurl.com/bridgingmq.
- 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>.

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