



# 2018 MAJOR – Biology

(Qualifying Major for Bachelor of Science with the degree of Bachelor of Laws)

The biology major offers a comprehensive education in the full range of biological disciplines, spanning molecules to ecosystems and the biosphere, and terrestrial, marine and freshwater biomes. Throughout the major, we link structure with function and processes that influence the evolution and ecology of organisms. We consider taxa ranging from microbes through to fungi, plants and animals. Our philosophy is of learning by doing, with a major focus on the development of practical and problem-solving skills. Our units take advantage of the university's bushland setting, many offering opportunities for field experience. We have a particular focus on Australia's unique biodiversity and the processes that have given rise to it. Key features of the major: significant research content, most units include practical work in state-of-the-art laboratories, some include fieldwork, and you can study biology by distance education, although attendance on campus for brief periods will be required.



**The table below is a suggested first year program guide to support your enrolment.** Please make your selection of units after reviewing the requirements of your award in the 2018 Handbook:

[www.handbook.mq.edu.au/2018/DegreesDiplomas/Degree/Bachelor+of+Science+with+the+degree+of+Bachelor+of+Laws](http://www.handbook.mq.edu.au/2018/DegreesDiplomas/Degree/Bachelor+of+Science+with+the+degree+of+Bachelor+of+Laws)


Suggested First Year			
Session 1, 2018		Session 2, 2018	
Unit Code	Unit Name	Unit Code	Unit Name
BIOL116	Biology in Practice	BIOL115	Genes to Organisms
BIOL114	Organisms to Ecosystems	LAW109	Criminal Justice
LAW115	Foundations of Law	LAWS104	Contracts
MATH111 or MATH135 or STAT170	Quantitative methods for Science Mathematics IA Introductory Statistics	LAWS108~ or CBMS108	Law, Lawyers and Society ~ Foundations of Chemical and Biomolecular Sciences 2

- 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 year from those suggested above.
  - ~ If an additional Science unit is selected for session 2, LAWS108 can be taken in the second year.
- A solid grounding in Chemistry, Mathematics and Physics is recommended for Biology. Students without HSC Chemistry (Band 5 or above) should take CBMS107 in session 1. A variety of first year Mathematics units are available [MATH111, MATH130, MATH135], depending on previous study. Statistics [STAT170 or STAT171] is a prerequisite for some second year Biology units. Other popular electives for Biology students include environmental science [ENV118, ENV117, GEOP111], geology [GEOS112, GEOS126], computing [COMP115, ISYS114] and other Biology units [BIOL108, BIOL122]. Outside the Faculty of Science and Engineering, ACSC100 is a unit designed to help science students with writing skills.

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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- 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. In the second year of the Biology major, students must complete two of BIOL206, BIOL227, BIOL228, BIOL229, BIOL235 and BIOL262. It is important to check the prerequisites for these units carefully, as they require different 100 level BIOL units, and both BIOL206 and BIOL235 require a STAT unit. BIOL235 is strongly recommended for students considering going on to MRes or a research career.
- All students must complete one People unit and one Planet unit. Criteria and available units can be viewed at [www.handbook.mq.edu.au/2018/Units/Planet](http://www.handbook.mq.edu.au/2018/Units/Planet) and [www.handbook.mq.edu.au/2018/Units/People](http://www.handbook.mq.edu.au/2018/Units/People).
- Although Mathematics and Chemistry are not required in the Biology major, some background knowledge is helpful. Bridging courses are available in February and recommended for those without recent HSC study: <http://web.science.mq.edu.au/bridging-courses/>
- 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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