

2019 MAJOR – Climate Science

(Qualifying Major for Bachelor of Science)

Climate scientists aim to understand the earth's climate system. Macquarie University's flexible approach to study is unique by allowing units in this field to be combined in several ways with studies in Biology, Chemistry, Computing, Earth and Planetary Sciences, Mathematics, Physics, Statistics and other fields of science depending on individual interests. Opportunities for development of research and practical skills are emphasised throughout the program and students are valued as individuals with a thoughtful and practical contribution to society. The general aims of this program are: To establish a set of core concepts that are fundamental to research and professional practice in climate science, to develop an understanding of the need for interdisciplinary, collaborative, and integrated approaches in climate system science, to develop practical skills in effecting technological solutions in the field of climate science, to develop the ability to examine, analyse, interpret and integrate scientific information, and critically evaluate data from various primary and secondary sources and use these data to inform decision making and management in climate science, to develop appropriate knowledge and skills to enable professional and effective participation in a relevant career in the discipline of climate science and to foster Life Long Learning.



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
STAT170	Introductory Statistics
ENV118	Environmental Management for a Changing World
Elective	GEOS or BIOL or MATH or PHYS unit at 100 level
Elective	Choose an elective unit

- 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.
- Climate science is an interdisciplinary science, therefore a good grounding in Chemistry, Mathematics, Physics, and Biology is recommended. A variety of first year Mathematics units are available [MATH111, MATH130, MATH135], as well as Statistics [STAT170 or STAT171]. Other popular electives for Climate Science students include Environmental Sciences [ENV118], geology [GEOS125, GEOS126], and computing [COMP115, ISYS114]. Outside the Faculty of Science and Engineering, ACSC100 is a unit designed to help science students with writing skills.
- Although Mathematics, Chemistry and Physics are not required in the Climate Science major, some background knowledge is helpful. Bridging courses in mathematics are available and recommended for those without recent

FIND OUT MORE
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Macquarie University NSW 2109 Australia
Handbook.mq.edu.au

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HSC study: www.tinyurl.com/bridgingmq.

- 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. Generally, when selecting units for this major it is suggested to select units with the following prefixes: PHYS, CBMS, BIOL, ISYS, COMP, ENV, ENVS, and STAT.
- 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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