



2018 MAJOR – Climate Science

(Qualifying Major for Bachelor of Environment)

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 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+Environment

Suggested First Year			
Session 1, 2018		Session 2, 2018	
Unit Code	Unit Name	Unit Code	Unit Name
BIOL114	Organisms to Ecosystems	ENV118	Environmental Management for a Changing World
GEOS112	The Planet Earth	GEOS125	Earth Dynamics
ENVS117	Biophysical Environments	CBMS107 *	Foundations of Chemical and Biomolecular Sciences 1
		or CBMS108 *	Foundations of Chemical and Biomolecular Sciences 2
STAT170	Introductory Statistics	Elective	Choose a People or Planet 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 year from those suggested above.
- * CBMS108 requires HSC Chemistry (Band 5 or above). Students without HSC Chemistry should take CBMS107.
- Climate science is an interdisciplinary science. The Bachelor of the Environment curriculum encourages study in these and other fields. Mathematics and Physics are not required in the Climate Science major, although some background knowledge is helpful in the climate science major. In particular [MATH111] Quantitative Methods for




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

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Science is suggested. In addition, bridging courses are available in February and recommended for those without recent HSC study: <http://web.science.mq.edu.au/bridging-courses>.

- Other popular electives for Climate Science students include human geography [GEOP111], physics [PHYS130] and computing [COMP115, ISYS114]. 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. In the second year of the Climate Science major, students must complete ENVS214 and ENVS216 and in third year ENVS301, ENVS302, ENVS304, and ENVS362. In the Bachelor of the Environment you are also required to take BIOL227, ENVS264, ENV267, ENVS216, and ENVS266 in addition to 3 credit points from GEOS units at 200 level. At the 300 level you are required to take ENVS363 and GEOP300. Generally, when selecting units for the climate science major it is suggested to select units with the following prefixes: PHYS, CBMS, BIOL, ISYS, COMP, ENV, and ENVS.
- 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/2018/Majors.
- 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 and www.handbook.mq.edu.au/2018/Units/People.
- 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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