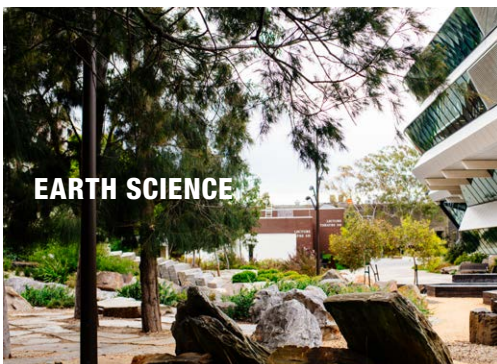


EARTH, ATMOSPHERE AND ENVIRONMENT

UNDERGRADUATE COURSES

- ▶ Bachelor of Science
- ▶ Bachelor of Science Advanced (Honours) – Research
- ▶ Bachelor of Science Advanced (Honours) – Global Challenges
- ▶ 11 Double Degrees with a Bachelor of Science
- ▶ Bachelor of Applied Data Science
- ▶ Bachelor of Applied Data Science Advanced (Honours)



Earth science involves the study of the Earth's physical environment. This major allows you to study all aspects of the Earth System. You may also choose to focus your major.

In a **Geoscience** focus, you will learn about geological processes: plate tectonics, basin formation, volcanology, earthquakes, and formation of the critical mineral resources needed for the transition to a renewable energy future.

A focus on **Earth's physical environment** will allow you to learn about the interaction of physical systems with the biosphere (rivers, groundwater, soils, landscapes).

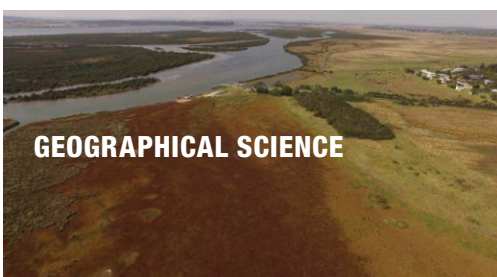
With an **Earth's climate** focus, you will learn how to understand and predict natural and anthropogenic climate change and its impacts.



Climate and atmospheric science explores the structure and evolution of the physical climate system, weather forecasting and how we understand the climate.

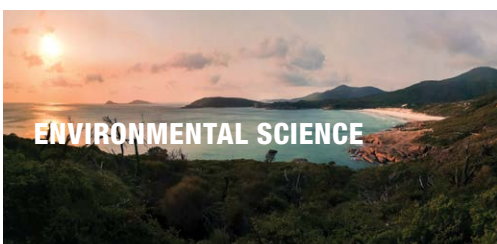
You may choose to focus on **weather and climate**, where you will examine the major physical forces that affect the behaviour of the atmosphere.

You may choose to focus on **climate change science**, where you will get familiar with policy frameworks concerning climate change and how we can respond to this urgent issue.



Geographical science investigates the evolving character of the Earth's biophysical and constructed environment in the past, present and future. It is concerned with spatial processes operating in the landscape such as atmospheric circulation, landform change, vegetation dynamics, human land uses, urbanisation and economic activity.

You will learn to analyse and synthesise complex environmental, economic, social and political information to enable a geographical understanding of humans, environments and the planet and their management.



Environmental science is a discipline that deals with the rapidly changing environmental issues facing the world today. You will gain a perspective of current environmental challenges, such as climate change, water and land management, resource use and sustainability.

This specialisation combines studies in Earth, Atmosphere and Environment and Biological Sciences. You may choose to focus your major on: **Climate**, **Earth sciences**, or **Ecology**.

EXAMPLE FIRST YEAR COURSE MAP

EARTH SCIENCE

Semester 1	EAE1011	Chemistry OR Biology OR Other Science sequence	SCI1000 Science communication to influence change	ATS1310 OR CLI1100 OR Elective
Semester 2	EAE1022	Chemistry OR Biology OR Other Science sequence	MTH1020 OR MTH1030 (OR MTH1035 depending on VCE background) OR SCI1020 OR SCI1022 OR STA1010	CLI1200 OR Elective

Other science sequences:

Biology; Chemistry; Computational Science; Mathematics; Physics; or Psychology.



Scan here for all other first year example course maps.
monash.edu/science/current-students/manage-your-science-studies/example-by-major

POTENTIAL CAREERS

- ▶ Agricultural researcher
- ▶ Atmospheric scientist
- ▶ Climate change advisor
- ▶ Climate and sustainability manager
- ▶ Climate scientist
- ▶ Community resilience advisor
- ▶ Ecotourism operator
- ▶ Environmental consultant
- ▶ Environmental geoscientist
- ▶ Environmental scientist
- ▶ Geochemist (analytical laboratories)
- ▶ Geological survey scientist
- ▶ Geologist (mineral/petroleum exploration)
- ▶ Geophysicist
- ▶ Geospatial analyst
- ▶ Government advisor (environmental policy and management)
- ▶ Hydrologist
- ▶ Hydrogeologist
- ▶ Oceanographer
- ▶ Marine geoscientist
- ▶ Metallurgist
- ▶ Meteorologist
- ▶ Museum scientist
- ▶ Natural resource manager
- ▶ Palaeontologist
- ▶ Park ranger
- ▶ Planetary scientist
- ▶ Policy officer
- ▶ Research scientist
- ▶ Risk manager (insurance companies and banks)
- ▶ Science communicator
- ▶ Secondary educator
- ▶ Seismologist
- ▶ Soil scientist
- ▶ Volcanologist
- ▶ Weather forecaster

UNIQUE OPPORTUNITIES

Earth Sciences Garden

A representation of Victoria's geology and geography on our doorstep.

Industry Internships

Apply your skills in the workplace to gain some professional experience.

Monash Atmosphere, Geology and Environment Society (M.A.G.E.S)

Supplement your studies by joining the dedicated student-run club.

Local and International Field Trips

Learn beyond the classroom.

International Experiences

Study overseas through an exchange, study abroad or the Global Immersion Guarantee.

Research Projects

Work closely with an academic supervisor to carry out an independent research project.



NICK

Degree: Bachelor of Science/Bachelor of Global Studies

Majors: Geographical Science and International Studies

Job: Environmental Graduate at ACCIONA – Southern Program Alliance



Scan here for the full school brochure.



Your Essential Guide to Monash Science
monash.edu/science/future-students/your-essential-guide-domestic-students