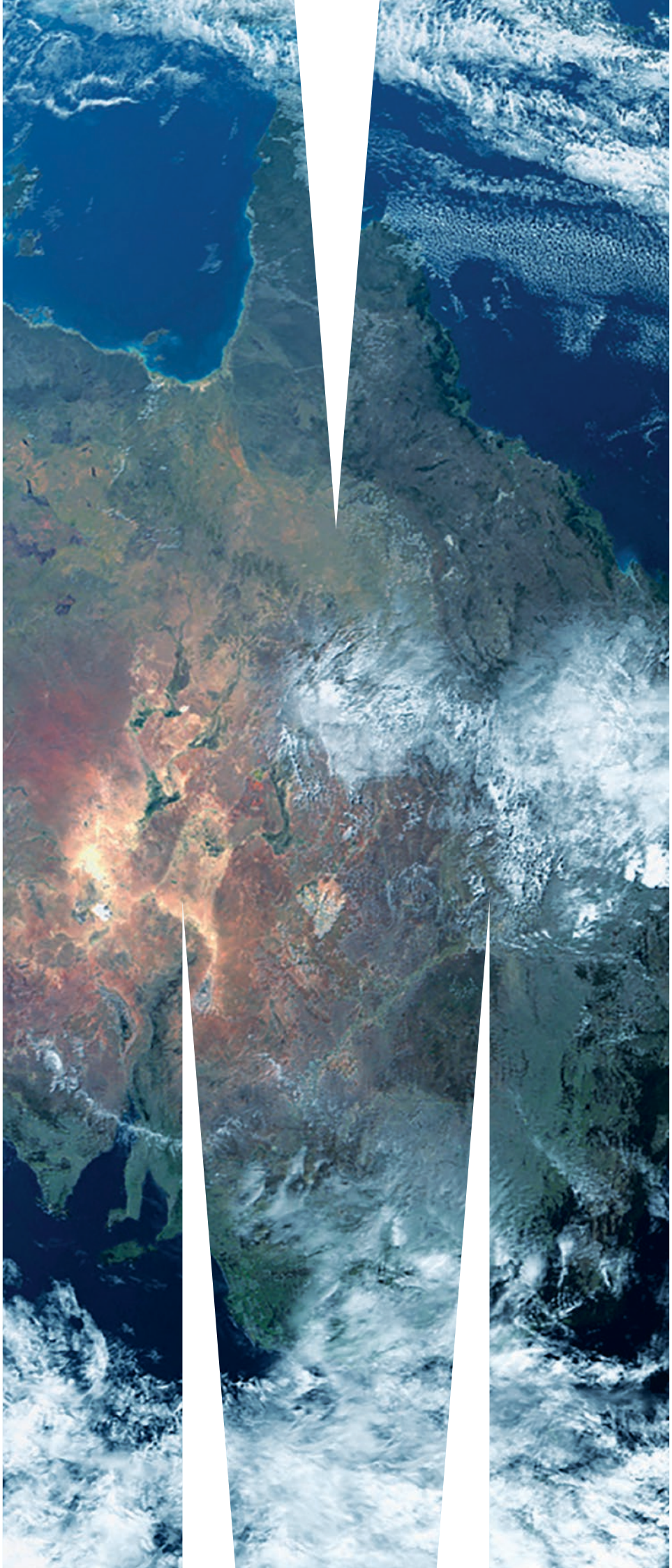
MONASH University

MONASH MASTER OF SCIENCE IN EARTH SCIENCE

monash.edu/science



GROUP OF EIGHT AUSTRALIA

MASTER OF SCIENCE IN EARTH SCIENCE

Earth science is a broad discipline that covers all aspects of the study of the Earth's interior and its surface physical environment.

Our new Master of Science in Earth Science will appeal to those passionate about applying their skills to explore for resources and manage our physical environment.

Our new Master's degree is delivered by the School of Earth, Atmosphere and Environment, a world research leader in Solid Earth Science, Environmental Earth Science, Geography, Climate and Meteorology.

COURSE DESCRIPTION

This two-year program is designed to training the next generation of skilled Earth scientists for the international natural resources and environmental sectors. You can specialise in three key areas:

- applied geoscience
- remote sensing and spatial data science, or
- environmental earth science

Students can also use this Masters as a pathway to a PhD program.

The Master of Science in Earth Science is innovative with a strong, hands-on, problem-based focus that incorporates modern advances in:

- data analytics
- advanced 3D geological modelling
- remote sensing, spatial data science
- Geographical Information Systems (GIS)
- drones and sensors

Training in these areas will be enhanced by the cutting-edge facilities and equipment available at Monash including **the Cave II immersive visualisation facility, state-of-the- art geochemical and materials analytical laboratories, drones and sensors.**

You also have the option to select coursework available through the **Victoria Institute of Earth and Planetary Science (VIEPS), and electives in Information Technology, Business and Management.**

CAREER OPPORTUNITIES

This Master's degree is industry – and future – focused and will equip you for tomorrow's workplace. Graduates typically find work in mining and exploration companies, environmental consulting firms, the oil and gas sector, research institutes, government agencies, and academia.

New Horizons Research Centre

COURSE STRUCTURE

You will take advanced coursework, including:

- Mineral Exploration Simulation
- Applied Analytical Geochemistry
- Geology and Tectonics of New Zealand
- Drones and Digital Mapping in Earth Science
- 3D Geological Modelling
- Applied Geophysics and Earth imaging
- Advanced Field Geology
- Remote Sensing
- Spatial Data Analysis
- Geographic Information Systems (GIS)
- Water Security and Environmental Pollution
- Climate Change, Energy and Human Security
- Contemporary Environmental Earth Science Problems
- Victoria Institute of Earth and Planetary Science (VIEPS) coursework

In addition to coursework study you will also complete a research project in field-based, theoretical, computational or experimental Earth science.

For more information:
monash.edu/master-science

SCHOLARSHIPS

You may be able to apply for generous scholarship opportunities to support you with your studies.

For more information:
monash.edu/study/fees-scholarships

COURSE STRUCTURE

YEAR 1 Semester 1 (24 points)	=	Advanced Studies (6 points)	+	Advanced Studies (6 points)	+	EAE4010 Earth science research project A (12 points)
YEAR 1 Semester 2 (24 points)	=	Advanced Studies (6 points)	+	Advanced Studies (6 points)	+	EAE4011 Earth science research project B (12 points)
YEAR 2 Semester 1 (24 points)	=	Extended Technical Studies (6 points)	+	Extended Technical Studies (6 points)	+	EAE5010 Advanced earth science research project A (12 points)
YEAR 2 Semester 2 (24 points)	=	Extended Technical Studies (6 points)	+	Extended Technical Studies (6 points)	+	EAE5011 Advanced earth science research project B (12 points)

Part A: Advanced studies

Consolidates the student's theoretical and/or technical knowledge in an area of specialisation.

Part B: Research project

To develop the student's ability to establish, plan and execute a research project under the guidance of an academic supervisor.

Part C: Extended technical studies

To deepen the student's understanding of specific topics within their chosen discipline.

Part D: Advanced research project

Students will establish, plan, execute and report on an advanced research project. Students will work with a supervisor on a chosen topic.

ENTRY REQUIREMENTS

Entry level 1
96 points to complete

Duration
2 years full-time

Intakes
February and July

An undergraduate degree (equivalent to an Australian undergraduate degree) with a major in Geology, Geophysics, Physical geography or a related discipline with at least a 65% average or qualification/experience that the faculty considers to be equivalent.

Entry Level 2
48 points to complete

Duration
1 year full-time

Intakes
February and July

A four-year Australian honours degree (or equivalent) with a major in Geology, Geophysics, Physical geography or a related discipline with at least 65% average or qualification/experience or a satisfactory substitute that the faculty considers to be equivalent.

English entry requirements

IELTS (Academic English Only)	TOEFL (Internet-based)	Pearsons Test of English (PTE)	Cambridge Certificate of Proficiency in English (CPE) & Cambridge Certificate in Advanced English (CAE)*
6.5 Overall (no band lower than 6.0)	79 Overall **Writing:** 21 **Speaking:** 18 **Reading:** 13 **Listening:** 12	58 Overall (no band lower than 50)	176 Overall (no band lower than 169)

*Test taken from January 2015 and onwards

Tuition fees

International students
A$44,500 per year.

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MONASH SCIENCE

Further information

monash.edu/earth-atmosphere-environment

International students
Australia freecall tel: 1800 181 838
Tel: +61 3 9903 4788 (outside Australia)
Email: study@monash.edu
facebook.com/MonashUniScience
youtube.com/user/ScienceMonashUni
wechat: MonashUniAus
Youku: Monash 蒙纳士大学
weibo.com/monashuniversityaust

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