

Mātai Pūtaiao ā-nuku Undergraduate Earth Sciences



If you're intrigued by the geological and Earth surface processes that shape our planet, from its deepest interior to its surface, and into neighbouring space, then Earth Sciences is the major for you.

Earth Sciences combines the geoscience disciplines of geology and physical geography. Earth Science graduates examine how the Earth's surface is shaped by natural and human processes, addressing the complex sustainability challenges that face our planet. For example, a smartphone can contain ~80% of the stable elements in the periodic table, and Rare Earth Elements (REE) are fundamental for the global clean energy transition.

What you will learn

Earth Sciences is about understanding how geology and surface processes interact. Understanding Earth systems allow us to learn from the past, comprehend present-day processes, and influence a sustainable future and a circular economy.

Skills you will gain include:

- › Understanding the physical, chemical and biological processes of the Earth System
- › Geological and spatial field data collection, management, analysis and visualisation
- › Applying laboratory and analytical techniques to geological and surface processes and materials
- › Understanding and communicating natural hazards and risks
- › Problem-solving and teamwork
- › Respect for the physical environment and cultural heritage

Choosing a subject

With so many options it's sometimes hard to choose what you want to study, but we've got you covered. You can study a double major with our Bachelor of Science to gain a broader base of skills and knowledge.

Complementary majors include:

- › Environmental Science
 - › Geography
 - › Marine Science
 - › Geographic Information Science
- or any other major in Science.



Career opportunities

Where does Earth Science take you?

Earth Science graduates are in global demand for sectors such as infrastructure and construction, sustainable resource extraction, as well as environmental and hazard management. While most commence their careers in New Zealand, our graduates are also recruited directly by Australian and UK-based employers.

Our Earth Science graduates have a unique breadth of understanding across both geology and physical geography. Typical roles are as geologists and scientists within environmental management, land development, engineering geological ground investigations, natural hazards monitoring, management and mitigation, as well as sustainable mineral exploration and extraction, and groundwater management/hydrogeology.

Earth Science graduates build successful long-term career pathways and become Chartered Geologists (CGeol) and Chartered Members of Engineering New Zealand (CMEngNZ), for example.

Our recent Earth Science graduates have been employed in the following jobs across both the public and private sectors in New Zealand and overseas:

- › Engineering geologist, Tonkin & Taylor
- › Geologist, Aurecon
- › Exploration geologist, Ramelius Resources
- › Paleontologist technician, Auckland Museum
- › Geophysicist, RDCL

- › Analyst, Ministry of the Environment
- › Ecologist, Auckland Council
- › Environmental Scientist, PDP
- › GIS analyst, Auckland Council

What you can study

- › Earth's Materials
- › Natural Hazards
- › Tectonics and Structural Geology
- › Geophysics and Geochemistry
- › Engineering Geology
- › Earth Surface Processes
- › Evolution of the Earth



Find out more about how your degree will be structured and what courses you need to take at

auckland.ac.nz/science/ug-earth-sci

Applications close on 8 December.



"My passion for Astrobiology and finding life on Mars inspires my research in this field. I hope it will lead to a future in a research or industry role, allowing me to realise my dreams and make a difference to myself and the geological community. I'm in the final year of my BSc and planning to pursue an honours degree, continuing my research on siliceous hot spring deposits."

Dominique Stallard
BSc Earth Science

Kuhua ki tō mātou hāpori, ā, Kimihia tōu Pūtaiao.
Join our community and find your Science.



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Have any questions?
Contact the Student Hub

auckland.ac.nz/student-hubs