Earth Sciences provide an understanding of the history, dynamics and features of the Earth and a basis for understanding our environment.

Duration: 3 years (6 semesters of full-time study)
Location: Hobart
Intake: February

EARTH SCIENCES INCLUDE:

Geology – is the study of the Earth, including tectonic processes leading to volcanic eruptions, earthquakes and the formation of mineral, oil, and gas resources in the Earth’s crust;

Environmental geology – combines geology, chemistry and geography and provides opportunities in environmental remediation and monitoring, resource management and the issues of conservation in geoscience;

Geophysics – combines geology and physics and uses the principles of physics to study the structure and composition of the Earth’s crust;

Geochemistry – combines geology and chemistry, and provides opportunities in mineral exploration, environmental science, and isotope or hydrothermal geochemistry research;

Petroleum geology – has a specific focus on exploration for fossil fuels for the oil and gas industry;

Economic geology – combines geology, physics and chemistry in the study of the formation of, and exploration for mineral deposits.

CAREERS IN EARTH SCIENCES

If you enjoy being outdoors and are looking for a challenging science-based career with travel opportunities and the thrill of exploration and discovery, then geology is for you. Earth sciences can be combined with studies in physics, chemistry, spatial sciences, engineering, botany, and marine and Antarctic sciences. Our graduates have pursued a wide range of well-paid, satisfying careers in the mining, energy and environmental sectors.

WHAT MAKES US DISTINCTIVE?

Tasmania’s wide variety of geology makes it a natural laboratory. As a result, Earth Sciences at the University of Tasmania has attracted some of the best geologists in the world to its teaching and research staff, and is well known for its geoscience courses relevant to the mining industry.

CENTRE OF EXCELLENCE IN ORE DEPOSITS

Earth Sciences are co-located with the Australian Research Council Centre of Excellence in Ore Deposits (CODES). CODES brings together a team of high-calibre Australian and international research scientists in a series of multi-disciplinary programs. These cover the spectrum of basic, strategic and applied research into the genesis of and exploration for ore deposits. Field research projects are based in Australia, South-East Asia, North and South America, Africa and Europe.
COURSE STRUCTURE
Within the Bachelor of Science degree framework, you can choose to study different areas of the Earth Sciences. To major in geology, you will need to study the following units:

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| 1    | Understanding Earth Systems  
      | Earth Resources, Environments & Evolution |
| 2    | Earth’s Materials & Interior  
      | Earth’s Surface |
| 3    | Choose any four units from:  
      | Applied Geophysics  
      | Computational Geoscience  
      | Economic Geology  
      | Environmental Geology  
      | Geological Mapping  
      | Mineral Exploration  
      | Petrology  
      | Sedimentary Environments & Resources  
      | Tectonics & Volcanology |

PROFESSIONAL RECOGNITION
This course is fully accredited by the Australasian Institute of Mining and Metallurgy, the main professional body for career development in the Earth Sciences.

SCHOLARSHIPS
There are a variety of specific scholarships on offer for students who choose to study Earth Sciences. Please see www.utas.edu.au/scholarships, and www.utas.edu.au/earth-sciences/study/scholarships.

FURTHER STUDY
Students who complete their degree in third-year Earth Sciences should strongly consider a fourth (honours) year, focusing on geology, geochemistry, geophysics or economic geology, as this is typically the industry standard for employment. For suitably qualified graduates, there are opportunities to undertake higher degrees at masters and doctoral levels.

ENTRY REQUIREMENTS
Minimum university entry requirements apply. Chemistry and/or physics foundation units are recommended for students who do not have background in these subject areas.

FOR MORE INFORMATION
Full details of courses are published on the UTAS website www.utas.edu.au/courses
You can contact the School of Physical Sciences on +61 3 6226 2476 or email Secretary.EarthSciences@utas.edu.au
www.utas.edu.au/earthsci