Bachelor of Science

Geoscience

www.global.tsukuba.ac.jp/geoscience
The Earth is a unique planet with a history of 4.6 billion years, and abundant water which forms the basis for life. As human population numbers continue to increase, managing our environment will become more important, with a comprehensive understanding of geoscience fundamental.

The College comprises two main fields of study: Geoenvironmental Sciences and Earth Evolution Sciences. Geoenvironmental Sciences explore the processes on the Earth’s surface, in the Earth’s atmosphere, lithosphere, hydrosphere, and the interactions between natural environments and human activities. Earth Evolution Sciences study how the Earth’s materials, structures, processes and organisms have changed over time.

The College of Geoscience of the University of Tsukuba has 42 staff members. While comprehensive education is one of the strengths of our college, our college is known for its outstanding international research. Pioneering research includes: urban and rural spatial structure, human-environment system, Earth surface processes, hydrological cycle, air-sea-land interaction in the climate system, microfossils, paleoenvironmental reconstruction, subduction tectonics, earthquake science, geochronology, mechanism of mineral formation, mineral deposits, and natural hazards.
Degree structure

Our undergraduate program in English provides students with an interdisciplinary understanding of the complexity and uncertainty of environmental systems. Students receive an overview of the diverse fields within geoscience and learn concepts, ideas and techniques in geoscience through a combination of theoretical and practical work. Our graduates have the skill to observe, measure, model and manage environmental systems in order to actively contribute in a drastically changing global environment.

First year offers a broad general education with students taking foundational courses in geoscience, biology, chemistry, physics and math, along with courses in Japanese, English (for non-native speakers), cultural studies, sports and arts. Students who wish to pursue Japanese language throughout their degree program are strongly encouraged to do so.

In second and third years, students can choose from a broad range of specialist subjects offered by the College of Geoscience, while broadening their understanding by selecting courses offered by the other Colleges in the School of Life and Environmental Science. Core transferrable skills courses provide training in how to prepare conference posters, give oral presentations, and prepare a manuscript for submission to a scientific journal.

In the final year, students undertake a research project supervised by one of our professors.
Career prospects

Graduates with a solid scientific training are in constant demand by a wide variety of industries. From government ministry officials, environmental consultancy and monitoring, petrochemical exploration, natural hazard mitigation, training and teaching, a wide variety of professions are available to geoscience graduates.

Approximately 65% of Geoscience graduates continue on to graduate school to earn a Masters or PhD degree.

Entry requirements

Applicants for this course must have a nationality other than Japanese, and must have completed 12 years of education outside Japan.

Students who received their education in a language other than English are required to submit proof of their English proficiency. Please see our website for minimum criteria.

The number of places on the course is limited, and admission is competitive based on a review of the students academic history, a written statement of their motivation for applying to study geoscience at Tsukuba, and an interview via teleconferencing. Students are expected to have an excellent academic record, and to be passionate about their subject.

Find more information at our website:
www.global.tsukuba.ac.jp/geoscience