The PhD Geosciences degree program provides a curriculum that is designed to be relevant to many of today’s career prospects, as well as the opportunity to interact in a research context with faculty. Students can benefit from select research programs — some of which involve faculty researchers from other institutions if students are interested in analytical approaches in the geosciences — and a recently renovated space. Geosciences is a long-established program at the University and traces its deep roots to the early 1960s.

The PhD in Geosciences degree emphasizes research in distinct specialties in the geosciences and is designed to prepare students for positions in the energy or environmental professions in industry or government, or for positions in academia. The Department requires that a PhD dissertation will consist of a number of independent research contributions, most of which will be published in peer-reviewed geoscience journals.

Program Description
The PhD in Geosciences requires 75 semester credit hours minimum beyond the baccalaureate degree. For complete admission and degree requirements, view the Graduate Catalog at catalog.utdallas.edu

Career Opportunities
Graduates of the program seek positions in industry, government or academia.

Marketable Skills
Upon successful completion of the PhD in Geosciences degree program, UT Dallas graduates will have received very rigorous training to perform research and scientific activities at the highest level of proficiency. The graduates will be able to independently design and execute research programs to answer most difficult and complex problems in the Geosciences, notably, at present, in geophysics, tectonics, and hydrologic aspects of environmental sciences. The graduates will be able to critically evaluate current knowledge and identify relevant scientific issues and problems and propose relevant solution or experiments to address the problem. The graduates will be ready to pursue careers in advanced research, educational or other geoscience-related fields. Graduates’ skills include:

- Advanced interdisciplinary knowledge and proficient practical skills in a combination of fields and approaches including geophysics, tectonics, geochemistry, hydrology, and geoscience education
- Highly proficient methodological skills in some modern experimental and computational techniques applied to advanced research questions in geosciences
- Ability to utilize and synthesize their knowledge and skills to develop and execute a novel research project aimed at the generation of new scientific knowledge independently as well as in highly collaborative team setting in different environments
- Demonstrated ability to teach and train others in knowledge and skills to develop and execute a novel research project aimed at the generation of new scientific knowledge
- Advanced skills in scientific communication, with demonstrated ability to write high quality manuscripts for publication in the peer-reviewed scientific literature and highly proficient ability to deliver oral presentations, including at professional meetings