APPLIED GEOLOGY - PH.D.

College of Arts and Sciences
Department of Geology
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Description

The Ph.D. degree in Applied Geology prepares students for careers in industry and academic institutions where research into the application of geological principles focuses on solutions to basic and applied research questions. Focus areas include environmental research (water, surface and subsurface processes; geohazards; and natural resources), as well as evolution of earth's systems research (climate change, paleoecology and evolution, crustal processes).

Fully Offered At:

- Kent Campus

Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores (Effective Spring 2020, GRE scores will no longer be required)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

Program Learning Outcomes

Graduates of this program will be able to:

1. Show in-depth comprehension of several areas including both basic and applied aspects of Geology/Earth Sciences.
2. Demonstrate the ability to formulate testable scientific hypotheses and carry out independent research using appropriate field, experimental, analytical and/or computational methods.
3. Describe, synthesize, and interpret the results of a scientific investigation and understand its broader applications.

Program Requirements
Major Requirements

Code	Title	Credit Hours
Major Requirements		
GEOL 70084	GEOLOGY GRADUATE STUDENT ORIENTATION	1
GEOL 80199	DISSERTATION I [1]	30
Additional Requirements		29-39
Minimum Total Credit Hours for Post-Baccalaureate Students		90
Minimum Total Credit Hours for Post-Master's Students		60

[1] Each doctoral candidate, upon admission to candidacy, must register for GEOL 80199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter GEOL 80299, each semester, including one term each summer, until all requirements for the degree have been met.

Graduation Requirements

All students will have a fundamental knowledge and understanding of Earth Materials and a field experience by the end of the second year in the program. This will be fulfilled by:

1. a lecture and lab course in Earth Materials, related to mineralogy and/or petrology, and
2. a three-to-five week Field camp or field experience, as determined by the graduate coordinator.

Candidacy

To be admitted to candidacy for the doctoral degree, a student must pass comprehensive written and oral examinations prior to the start of the fifth semester after admission to the doctoral program. The comprehensive examinations focus on mastery of the student's major area of concentration and one minor area, as well as the fundamentals of geology and its allied sciences as appropriate to the student's proposed dissertation topic. Students who fail the comprehensive examinations may be allowed to repeat them once; this must be completed more than one month after the initial examination, but less than six months thereafter.

Residency

All students admitted to the doctoral program must complete two successive semesters of full-time graduate study at Kent State University. During this time they must obtain a minimum of 22 credit hours.