APPLIED GEOLOGY - PH.D.

College of Arts and Sciences
Department of Earth Sciences
www.kent.edu/earth-sciences

About This Program
Applied Geology. Our program offers rigorous coursework, research opportunities, and practical experience in the field, preparing you for a successful career in the industry. With experienced faculty, state-of-the-art facilities, and real-world experiences, you'll gain the skills and knowledge needed to solve complex geology challenges and make a meaningful impact. Read more...

Contact Information
• Program Coordinator: David Singer | dsinger4@kent.edu | 330-672-3006
• Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery
• Delivery: In person
• Location: Kent Campus

Examples of Possible Careers and Salaries*
Atmospheric, earth, marine, and space sciences teachers, postsecondary
• 1.9% slower than the average
• 13,100 number of jobs
• $94,520 potential earnings

Geoscientists, except hydrologists and geographers
• 4.9% about as fast as the average
• 31,800 number of jobs
• $93,580 potential earnings

Hydrologists
• 5.3% faster than the average
• 7,000 number of jobs
• $84,040 potential earnings

Natural sciences managers
• 4.8% about as fast as the average
• 71,400 number of jobs
• $137,940 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics’ Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements
• Bachelor’s degree from an accredited college
• Minimum 2.750 undergraduate GPA on a 4.000 point scale
• Official transcript(s)
• 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
  • Minimum 110 Duolingo English Test score

For more information about graduate admissions, visit the graduate admission website. For more information on international admission, visit the Office of Global Education website.

Application Deadlines
• Fall Semester
  • Priority deadline: January 15
  Applications submitted by this deadline will receive the strongest consideration for admission.

Program Requirements

Major Requirements

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ESCI 70084</td>
<td>GEOLOGY GRADUATE STUDENT ORIENTATION</td>
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<tr>
<td>ESCI 70087</td>
<td>WRITING IN THE EARTH SCIENCES</td>
<td>1</td>
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Additional Requirements

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<th>Code</th>
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<tbody>
<tr>
<td>ESCI 80199</td>
<td>DISSERTATION I</td>
<td>30</td>
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Minimum Total Credit Hours for Post-Baccalaureate Students

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<tr>
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Minimum Total Credit Hours for Post-Master’s Students

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<tbody>
<tr>
<td>ESCI 80199</td>
<td>DISSERTATION I</td>
<td>30</td>
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</tbody>
</table>

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

Graduation Requirements

All students will have a fundamental knowledge and understanding of earth materials by the end of the second year in the program. This will be fulfilled by a lecture and lab course in Earth materials or an equivalent
course related to mineralogy and/or petrology 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.

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.

Full 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).