GEOLOGY - M.S.

Contact Information
• Program Coordinator: David Singer | dsinger4@kent.edu | 330-672-3006
• Chat with an Admissions Counselor

Fully Offered
• Kent Campus

Admission Terms
• Fall

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

Geological and hydrologic technicians
• 5.5% faster than the average
• 19,000 number of jobs
• $50,630 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

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. 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 60084</td>
<td>GEOLOGY GRADUATE STUDENT ORIENTATION</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 60199</td>
<td>THESIS I</td>
<td>6</td>
</tr>
</tbody>
</table>

Additional Program Requirements

Minimum Total Credit Hours: 32

*Note
Source of occupation titles and labor data is 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.

Description
The Master of Science degree in Geology provides qualified students the opportunity for advanced study in a wide variety of geologic fields. 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).

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)
• 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, 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. 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 60084</td>
<td>GEOLOGY GRADUATE STUDENT ORIENTATION</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 60199</td>
<td>THESIS I</td>
<td>6</td>
</tr>
</tbody>
</table>

Additional Program Requirements

Minimum Total Credit Hours: 32

*Note
Source of occupation titles and labor data is 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.
Upon the completion of the thesis proposal defense, the student registers for 6 credit hours of GEOL 60199. Thereafter, the student must be continuously registered in GEOL 60299 until all degree requirements are met.

Students must complete 9 credit hours at the 60000-level.

Graduation Requirements

- Minimum 3.000 overall GPA
- Participation in required orientation and colloquia
- Accepted and publicly defended thesis that incorporates the results of a program of original geologic research
- 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.