GEOLOGY - B.S.

College of Arts and Sciences
Department of Geology
221 McGilvrey Hall
Kent Campus
330-672-2680
g eo l ogy@ k e nt . e du
www.kent.edu/geology

Description
The Bachelor of Science degree in Geology is designed for those interested in a professional career in the field. Students The curriculum focuses on minerals, rocks, landforms, fossils, structural geology, geochemistry and field mapping, among others. Supplemental courses include introductory chemistry, physics, biology and mathematics. Students are also encouraged to specialize in a applied or theoretical area of the science. The program features a capstone summer field course in the Black Hills of South Dakota.

The Geology major includes the following optional concentration:

- The Environmental Geology optional concentration provides students with specialized training for careers in the well-established and growing field of environmental geology. The concentration's curriculum focuses on hydrology, hydrogeology, engineering geology and environmental monitoring techniques.

FULLY OFFERED AT:
- Kent Campus

Admission Requirements
The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Freshman Students on the Kent Campus: The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven Regional Campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

Freshman Students on the Regional Campuses: Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Transfer, Transitioning and Former Students: For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

English Language Proficiency Requirements for International Students:
All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. 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. Understand and communicate to others on the nature of scientific investigation and evidence.
2. Understand and communication to others on the complex interrelationships of the biosphere, atmosphere, hydrosphere and the lithosphere through geologic time.
3. Understand Earth materials and interpret geologic and environmental processes.
4. Synthesize geologic information to understand and solve geologic and environmental problems.
5. Demonstrate critical thinking skills.
6. Develop the skills to work as a geologist in the field and in the laboratory.

University Requirements
All students in a bachelor’s degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits/Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Destination Kent State: First Year Experience</td>
<td>1</td>
</tr>
<tr>
<td>Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.</td>
<td></td>
</tr>
<tr>
<td>Diversity Domestic/Global (DIVD/DIVG)</td>
<td>2 courses</td>
</tr>
<tr>
<td>Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.</td>
<td></td>
</tr>
<tr>
<td>Experiential Learning Requirement (ELR)</td>
<td>varies</td>
</tr>
<tr>
<td>Students must successfully complete one course or approved experience.</td>
<td></td>
</tr>
<tr>
<td>Kent Core (see table below)</td>
<td>36-37</td>
</tr>
<tr>
<td>Writing-intensive Course (WIC)</td>
<td>1 course</td>
</tr>
<tr>
<td>Students must earn a minimum C grade in the course.</td>
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</tr>
<tr>
<td>Upper-Division Requirement</td>
<td>39 (or 42)</td>
</tr>
<tr>
<td>Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.</td>
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</tr>
<tr>
<td>Total Credit Hour Requirement</td>
<td>120</td>
</tr>
<tr>
<td>Some bachelor’s degrees require students to complete more than 120 credit hours.</td>
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</table>
Kent Core Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits/Courses</th>
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</thead>
<tbody>
<tr>
<td>Kent Core Composition (KCMP)</td>
<td>6</td>
</tr>
<tr>
<td>Kent Core Mathematics and Critical Reasoning (KMCR)</td>
<td>3</td>
</tr>
<tr>
<td>Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)</td>
<td>9</td>
</tr>
<tr>
<td>Kent Core Social Sciences (KSS) (must be from two disciplines)</td>
<td>6</td>
</tr>
<tr>
<td>Kent Core Basic Sciences (KB/KLAB) (must include one laboratory)</td>
<td>6-7</td>
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<tr>
<td>Kent Core Additional (KADL)</td>
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</table>

Total Credit Hours: 36-37

Program Requirements

Major Requirements (courses count in major GPA)

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>BSCI 10002</td>
<td>LIFE ON PLANET EARTH (KBS)</td>
<td>3</td>
</tr>
<tr>
<td>or BSCI 11100</td>
<td>BIOLOGICAL DIVERSITY (KBS) (KLAB)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 10060</td>
<td>GENERAL CHEMISTRY I (KBS)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 10062</td>
<td>GENERAL CHEMISTRY I LABORATORY (KBS)</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 11040</td>
<td>HOW THE EARTH WORKS (KBS)</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 11041</td>
<td>HOW THE EARTH WORKS LABORATORY (KBS)</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 11042</td>
<td>EARTH AND LIFE THROUGH TIME (KBS)</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 11043</td>
<td>EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 22000</td>
<td>INTRODUCTORY GEOLOGY SEMINAR (ELR)</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 23063</td>
<td>EARTH MATERIALS I</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 31070</td>
<td>EARTH MATERIALS II</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 31080</td>
<td>STRUCTURAL GEOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 34061</td>
<td>INVERTEBRATE PALEONTOLOGY (WIC)</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 41092</td>
<td>SUMMER FIELD CAMP (ELR)</td>
<td>6</td>
</tr>
<tr>
<td>GEOL 42035</td>
<td>SCIENTIFIC METHODS IN GEOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 30011</td>
<td>BASIC PROBABILITY AND STATISTICS</td>
<td></td>
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<tr>
<td>GEOL 44070</td>
<td>SEDIMENTOLOGY AND STRATIGRAPHY</td>
<td>4</td>
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<tr>
<td>MATH 12002</td>
<td>ANALYTIC GEOMETRY AND CALCULUS I (KMCR)</td>
<td>5</td>
</tr>
<tr>
<td>PHY 13001</td>
<td>GENERAL COLLEGE PHYSICS I (KBS)</td>
<td>4</td>
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<tr>
<td>PHY 13021</td>
<td>GENERAL COLLEGE PHYSICS LABORATORY I (KLAB)</td>
<td>1</td>
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Additional Requirements (courses do not count in major GPA)

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>UC 10097</td>
<td>DESTINATION KENT STATE: FIRST YEAR EXPERIENCE</td>
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Foreign Language College Requirement

Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.

- Minimum Elementary I and II of the same language
- All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin their university foreign language experience beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by: (1) passing a course beyond the Elementary I through Intermediate II level or (2) receiving credit through Credit by Exam (CBE), the College Level Examination Program (CLEP), the Advanced Placement (AP) exam or credit through the International Baccalaureate (IB) program; or (3) being designated a "native speaker" of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 8 credit hours and two courses, they will complete the remaining hours with general electives.

Additional Requirements for Students Not Declaring a Concentration

[AS-BS-GEOL]

Major Requirements (courses count in major GPA)

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
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</thead>
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<tr>
<td>CHEM 10061</td>
<td>GENERAL CHEMISTRY II (KBS)</td>
<td>4</td>
</tr>
<tr>
<td>or PHY 13002</td>
<td>GENERAL COLLEGE PHYSICS II (KBS)</td>
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</tr>
<tr>
<td>CHEM 10063</td>
<td>GENERAL CHEMISTRY II LABORATORY (KBS)</td>
<td>1</td>
</tr>
<tr>
<td>or PHY 13022</td>
<td>GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)</td>
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</table>

Minimum Total Credit Hours: 20

Environmental Geology Concentration Requirements

[AS-BS-GEOL-EGEO]

Concentration Requirements (courses count in major GPA)

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<tr>
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<td>GENERAL CHEMISTRY II (KBS)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 10063</td>
<td>GENERAL CHEMISTRY II LABORATORY (KBS)</td>
<td>1</td>
</tr>
<tr>
<td>or PHY 13002</td>
<td>GENERAL COLLEGE PHYSICS II (KBS)</td>
<td></td>
</tr>
<tr>
<td>GEOL 32066</td>
<td>GEOMORPHOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 42069</td>
<td>HYDROGEOCHEMISTRY</td>
<td>3</td>
</tr>
<tr>
<td>or GEOL 43040</td>
<td>PRINCIPLES OF GEOCHEMISTRY</td>
<td></td>
</tr>
<tr>
<td>or GEOL 43042</td>
<td>ENVIRONMENTAL GEOCHEMISTRY</td>
<td></td>
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</table>

Minimum Total Credit Hours: 120

1 A minimum C grade must be earned to fulfill the writing-intensive requirement.

Minimum Major GPA: 2.000

Minimum Overall GPA: 2.000
Environmental Geology Concentration Electives, choose from the following: 9-10

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>GEOL 42030</td>
<td>REMOTE SENSING</td>
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</tr>
<tr>
<td>GEOL 42065</td>
<td>WATERSHED HYDROLOGY</td>
<td></td>
</tr>
<tr>
<td>GEOL 42067</td>
<td>INTRODUCTORY HYDROGEOLOGY</td>
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</tr>
<tr>
<td>GEOL 42068</td>
<td>CONTAMINANT HYDROLOGY AND HYDROGEOLOGY</td>
<td></td>
</tr>
<tr>
<td>GEOL 42069</td>
<td>HYDROGEOCHEMISTRY</td>
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</tr>
<tr>
<td>GEOL 42074</td>
<td>ENVIRONMENTAL CORE AND WELL LOGGING</td>
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</tr>
<tr>
<td>GEOL 42078</td>
<td>ENGINEERING GEOLOGY</td>
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<tr>
<td>GEOL 43040</td>
<td>PRINCIPLES OF GEOCHEMISTRY</td>
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<tr>
<td>GEOL 43042</td>
<td>ENVIRONMENTAL GEOCHEMISTRY</td>
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</tr>
<tr>
<td>GEOL 43044</td>
<td>ENVIRONMENTAL ISOTOPES</td>
<td></td>
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</table>

Minimum Total Credit Hours: 21

Roadmaps

- Geology Major (no concentration)
- Environmental Geology Concentration

Geology Major (no Concentration)

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
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<td></td>
<td></td>
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<td>GEOL 11040</td>
<td>HOW THE EARTH WORKS (KBS)</td>
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<td>GEOL 11041</td>
<td>HOW THE EARTH WORKS LABORATORY (KBS)</td>
<td>1</td>
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<tr>
<td>UC 10097</td>
<td>DESTINATION KENT STATE: FIRST YEAR EXPERIENCE</td>
<td>1</td>
</tr>
<tr>
<td>Foreign Language</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Kent Core Requirement</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Kent Core Requirement</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Credit Hours</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

| Semester Two    |                                            |         |
| BSCI 10002      | LIFE ON PLANET EARTH (KBS)                 | 3       |
| or BSCI 10110   | or BIOLOGICAL DIVERSITY (KBS) (KLAB)       |         |
| GEOL 11042      | EARTH AND LIFE THROUGH TIME (KBS)          | 3       |
| GEOL 11043      | EARTH AND LIFE THROUGH TIME LABORATORY (KBS (KLAB) | 1     |
| Foreign Language|                                            | 4       |
| Kent Core Requirement |                                       | 3       |
| Credit Hours    |                                            | 14      |

| Semester Three  |                                            |         |
| CHEM 10060      | GENERAL CHEMISTRY I (KBS)                  | 4       |
| CHEM 10062      | GENERAL CHEMISTRY I LABORATORY (KBS)      | 1       |
| GEOL 22000      | INTRODUCTORY GEOLOGY SEMINAR (ELR)        | 1       |
| GEOL 23063      | EARTH MATERIALS I                         | 4       |
| Kent Core Requirement |                                       | 3       |
| Kent Core Requirement |                                       | 3       |
| Credit Hours    |                                            | 16      |

| Semester Four   |                                            |         |
| GEOL 31070      | EARTH MATERIALS II                         | 4       |
| GEOL 31080      | STRUCTURAL GEOLOGY                         | 4       |
| PHY 13001       | GENERAL COLLEGE PHYSICS I (KBS)            | 4       |
| PHY 13021       | GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) | 1     |

| Semester Five   |                                            |         |
| GEOL 34061      | INVERTEBRATE PALEONTOLOGY (WIC)            | 4       |
| GEOL 42035      | SCIENTIFIC METHODS IN GEOLOGY              | 3       |
| or MATH 30011   | or BASIC PROBABILITY AND STATISTICS        |         |
| MATH 12002      | ANALYTIC GEOMETRY AND CALCULUS I (KMCR)    | 5       |
| Kent Core Requirement |                                       | 3       |
| Credit Hours    |                                            | 13      |

| Semester Six    |                                            |         |
| CHEM 10061      | GENERAL CHEMISTRY II (KBS)                 | 4       |
| or PHY 13002    | or GENERAL COLLEGE PHYSICS II (KBS)       |         |
| CHEM 10063      | GENERAL CHEMISTRY II LABORATORY (KBS)     | 1       |
| or PHY 13022    | or GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) |         |
| Geology Upper-Division Courses (GEOL 30000 or 40000 level) | 3     |
| Kent Core Requirement |                                       | 3       |
| General Electives |                                         | 4       |
| Credit Hours    |                                            | 15      |

Third Summer Term

| GEOL 41092     | SUMMER FIELD CAMP (ELR)                    | 6       |

| Credit Hours   |                                            | 6       |

| Semester Seven |                                            |         |
| Geology Upper-Division Courses (GEOL 30000 or 40000 level) | 6     |
| General Electives |                                         | 8       |
| Credit Hours    |                                            | 14      |

| Semester Eight |                                            |         |
| GEOL 44070     | SEDIMENTOLOGY AND STRATIGRAPHY              | 4       |
| Geology Upper-Division Courses (GEOL 30000 or 40000 level) | 6     |
| General Electives |                                         | 2       |
| Credit Hours    |                                            | 12      |

Minimum Total Credit Hours: 120
Environmental Geology Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

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<td>DESTINATION KENT STATE: FIRST YEAR EXPERIENCE</td>
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<td>Foreign Language</td>
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<td><strong>Semester Two</strong></td>
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<td></td>
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<tr>
<td>BSCI 10002</td>
<td>LIFE ON PLANET EARTH (KBS) or BIOLOGICAL DIVERSITY (KBS) (KLAB)</td>
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<td>BSCI 10110</td>
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<td>GEOL 11042</td>
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<td><strong>Semester Four</strong></td>
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<td><strong>Credit Hours</strong></td>
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<tr>
<td><strong>Semester Five</strong></td>
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<td>GEOMORPHOLOGY</td>
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<td><strong>Semester Six</strong></td>
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<td>STRUCTURAL GEOLOGY</td>
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<th>Credits</th>
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Minimum Total Credit Hours: **120**