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# **GEOLOGY - B.A.**

College of Arts and Sciences

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

# **About This Program**

Discover the earth's wonders with Kent State's Geology B.A. program. Gain the knowledge and experience needed to understand our planet's geological processes, while developing the skills to tackle real-world challenges in this dynamic field. Read more...

#### **Contact Information**

- Program Coordinator: **Joseph Ortiz** | jortiz@kent.edu | 330-672-2225
- · Speak with an Advisor
  - · Kent Campus
  - Stark Campus
- Chat with an Admissions Counselor. Kent Campus | Regional Campuses

# **Program Delivery**

- · Delivery:
  - · In person
- · Location:
  - Kent Campus
  - · Stark Campus

# **Examples of Possible Careers and Salaries\***

#### Geological and hydrologic technicians

- 5.5% faster than the average
- · 19,000 number of jobs
- · \$50,630 potential earnings

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

# **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.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

**International Students**: All international students must provide proof of English language proficiency unless they meet specific exceptions. For more information, visit the admissions website for international students.

**Transfer Students:** Students who have attended any other educational institution after graduating from high school must apply as undergraduate transfer students. For more information, visit the admissions website for transfer students.

**Former Students:** Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Admission policies for undergraduate students may be found in the University Catalog.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

# **Program Requirements**

#### **Major Requirements**

Kent Core Composition

Code	Title	Credit Hours
Major Requirements	s (courses count in major GPA)	
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3-4
or BSCI 10110	BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
ESCI 22000	DEGREE AND CAREER PATHS IN EARTH SCIENCES (ELR)	1
ESCI 23063	EARTH MATERIALS I	4
ESCI 31070	EARTH MATERIALS II (WIC) 1	4
ESCI 34061	PRINCIPLES OF PALEONTOLOGY	4
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
Earth Science (ESCI	) Upper-Division Electives (30000 or 40000 level) <sup>2</sup>	15
Earth Electives, cho	ose from the following:	4
ESCI 11040 & ESCI 11041	HOW THE EARTH WORKS (KBS) and HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	
ESCI 11042 & ESCI 11043	EARTH AND LIFE THROUGH TIME (KBS) and EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	
Major Elective, choo	ose from the following:	3
ESCI 11040	HOW THE EARTH WORKS (KBS)	
ESCI 11042	EARTH AND LIFE THROUGH TIME (KBS)	
ESCI 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	
ESCI 21080	ALL ABOUT THE OCEANS (KBS)	
Additional Requiren	nents (courses do not count in major GPA)	
UC 10001	FLASHES 101	1
Foreign Language (	see Foreign language College Requirement below)	14-16
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<sup>\*</sup> Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics'

Minimum Total Credit Hours:	120
hours, including 39 upper-division credit hours)	
General Electives (total credit hours depends on earning 120 credit	35
Kent Core Social Sciences (must be from two disciplines)	6
Kent Core Humanities and Fine Arts (minimum one course from each)	9

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

## **Graduation Requirements**

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

#### Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language. <sup>1</sup> To complete the requirement, students need the equivalent of Elementary I and II in any language, plus one of the following options <sup>2</sup>:

- 1. Intermediate I and II of the same language
- 2. Elementary I and II of a second language
- 3. Any combination of two courses from the following list:
  - Intermediate I of the same language
  - · ARAB 21401
  - · ASL 19401
  - · CHIN 25421
  - MCLS 10001
  - MCLS 20001
  - MCLS 20091
  - MCLS 21417
  - · MCLS 21420
  - MCLS 22217
  - MCLS 28403
  - MCLS 28404
- 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 start 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 Elementary I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.
- <sup>2</sup> Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.

## Roadmap

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.

Semester One		Credits
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10001	FLASHES 101	1
Earth Electives		4
Foreign Langua	ge	4
Kent Core Requ	irement	3
	Credit Hours	15
Semester Two		
MATH 11022	TRIGONOMETRY (KMCR)	3
Major Elective		3
Foreign Langua	ge	4
Kent Core Requ	irement	3
Kent Core Requ	irement	3
	Credit Hours	16
Semester Three	•	
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS)	1
	(KLAB)	
ESCI 22000	DEGREE AND CAREER PATHS IN EARTH SCIENCES (ELR)	1
ESCI 23063	EARTH MATERIALS I	4
Foreign Langau	ge	3
Kent Core Requ	irement	3
	Credit Hours	16
Semester Four		
or BSCI 10110	LIFE ON PLANET EARTH (KBS) or BIOLOGICAL DIVERSITY (ELR) (KBS) (KLAB)	3
ESCI 31070	EARTH MATERIALS II (WIC)	4
Foreign Langua	` '	3
Kent Core Requ		3
General Elective		3
General Liective	Credit Hours	16
Semester Five	orealt riours	10
ESCI 34061	PRINCIPLES OF PALEONTOLOGY	4
	ESCI) Upper-Division Elective (30000 or 40000	3
level)	cool) Opper Division Elective (00000 of 40000	3
Kent Core Requ	irement	3
General Elective	es	5
Semester Six	Credit Hours	15
Earth Science (I	ESCI) Upper-Division Electives (30000 or 40000	6
level) General Elective	20	6
General Elective	Credit Hours	
Semester Sever		12
	ESCI) Upper-Division Elective (30000 or 40000	3
level)		
Kent Core Requ	irement	3
General Elective	es	9
	Credit Hours	15

<sup>&</sup>lt;sup>2</sup> ESCI 41092 is recommended as an upper-division Earth Science (ESCI) elective. The following courses will not satisfy major requirements: ESCI 41073, ESCI 41077 and ESCI 41079.

#### Semester Eight

Earth Science (ESCI) Upper-Division Elective (30000 or 40000	
level)	
General Electives	12
Credit Hours	15
Minimum Total Credit Hours:	120

# **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.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one glob course, of which one must be from the Kent Core.	bal
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (number 30000 to 49999) credit hours to graduate.	ed
Total Credit Hour Requirement	120 credit hours
17	

## **Kent Core Requirements**

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	36-37

# **Program Learning Outcomes**

Graduates of this program will be able to:

- Understand and communicate to others the nature of scientific investigation and evidence.
- Understand and communicate to others the complex interrelationships of the biosphere, atmosphere, hydrosphere and lithosphere through geologic time.
- 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 and be able to work as a geologist in the field and in the laboratory.

# **Full Description**

The Bachelor of Arts degree in Geology prepares graduates for employment in a wide variety of careers where an understanding of the natural sciences is useful or critical for success. Geology can be a strong background for advanced study or career development in areas such as business, city management, regional development, planning, law, journalism and science writing. The curriculum includes courses concerning minerals, rocks, fossils and field mapping, among others. These courses are supplemented by courses such as introductory chemistry, biology and mathematics.

Geology students may apply early to the M.S. degree in Geology and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.