

Geology 337000BS

The following information has official approval of the **Department of Geosciences**, but is intended only as a supplemental guide. Official degree requirements are established at the time of transfer and admission to the degree-granting college. *Completion of this degree within the identified time frame below is contingent upon many factors, including but not limited to: class availability, total number of required credits, work schedule, finances, family, course drops/withdrawals, successfully passing courses, prerequisites, among others.* The transfer process is completed through an appointment with your academic advisor.

**Students are encouraged to visit the Geosciences Department their freshman year to obtain preliminary information regarding the program requirements and to learn more about on-campus opportunities available to Geology students.

Italicized courses fulfill General Education requirements. Unless a course is specified, refer to the General Education guide at http://www.uakron.edu/advising/docs/General_Education_Guide.pdf

1 st Year	Fall Semester	Credit Hours	Prerequisites
3370:101	<i>Intro to Physical Geology (Lecture & Lab)</i>	4	
3450:221	<i>Analytic-Geometry Calculus I (Note a)</i>	4	Appropriate placement by advisor
	<i>English Composition I Requirement (Note b)</i>	3	Appropriate placement by advisor
	<i>Speech/ Oral Communication Requirement</i>	3	
	Beginning Language I (Note c)	4	
	-OR-	or	
7700:101	American Sign Language I	3	
Total		17-18	

1 st Year	Spring Semester	Credit Hours	Prerequisites
3370:102	Intro Historical Geology (Spring term only)	4	3370:101
	<i>English Composition II Requirement (Note b)</i>	3	3300:111 or equivalent
	Beginning Language II (Note c)	4	Beginning Language I
	-OR-	or	or
7700:102	American Sign Language II	3	7700:101
3450:222	Analytic-Geometry Calculus II	4	3450:221
Total		14-15	

2 nd Year	Fall Semester	Credit Hours	Prerequisites
3400:210 or 3400:221	<i>Humanities in the Western Tradition</i> -OR- <i>Humanities in the World Since 1300</i>	4	32 credits & 3300:112 or equivalent
3370:230	Mineral Science (Fall term only)	4	3370:101 prerequisite 3150:151, 3150:152, corequisites
3150:151	<i>Principles of Chemistry I (Lecture & Recitation)</i>	3	Placement in 3450:149 or higher
3150:152	<i>Principles of Chemistry Lab</i>	1	3150:151, corequisite
	Intermediate Language I	3	Beginning Language II
	-OR-		or
7700:201	American Sign Language III		7700:102
	<i>Physical Education/Wellness Requirement</i>	1	
Total		16	

2 nd Year	Spring Semester	Credit Hours	Prerequisites
3370:231	Silicate Mineralogy and Petrology (Spring term only)	4	3370:101 (3370:230 strongly recommended) 3150:151 & 152, corequisites
	<i>Humanities Elective Requirement</i>	3	
3150:153	Principles of Chemistry II	3	
	<i>Social Science Requirement (Note d)</i>	2-4	
	Intermediate Foreign Language II	3	Beginning Foreign Language II
	-OR-	or	or
7700:202	American Sign Language IV -AND	3	7700:201
7700:222	Survey of Deaf Culture in America	2	Sign Language students only
Total		15-19	

3 rd Year		Fall Semester	
3370:350	Structural Geology	4	3370:101
	<i>Humanities Requirement</i>	3	
3370:3/4xx	Upper Level Geology electives (Note e)	3	
3650:291	Elementary Classical Physics I	4	3450:221
Total		14	

3 rd Year		Spring Semester	
3370:324	Sedimentation & Stratigraphy	4	3370:102, 3370:231
3370:360	Paleobiology	4	3370:101 or 3100:111
	<i>Social Science Requirement</i> (Note d)	3	
xxxx:3/4xx	Upper Level Geology Electives (Note e)	3	
3650:292	Elementary Classical Physics II	4	3650:291
Total		18	

3 rd Year		Summer Semester	
3370:453	Geology Field Camp I	3	
3370:454	Geology Field Camp II	3	
Total		6	

4 th Year		Fall Semester	
	<i>Area Studies/Cultural Diversity Requirement</i>	2	
3370:3/4xx	Upper Level Geology electives (Note e)	3	
3370:3/4xx	Upper Level Geology electives (Note e)	4	
	Upper Level Electives (Note f)	4	
Total		13	

4 th Year		Spring Semester	
	<i>Area Studies/Cultural Diversity Requirement</i>	2	
	Upper Level Electives (Note f)	12	
Total		14	

	Total Credits for Degree	128 min	
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ALERT: 1) By the end of your first 48 credit hours attempted, you must have completed your General Education English, Math, and Communications (Speech) requirements; 2) By the end of your first 48 credit hours attempted, you must have declared a major and transferred to (been accepted by) a degree granting college at The University of Akron.

NOTES:

- All Geology majors should take the Math Placement Test. The B.S. requirement is 3450:221 and 222, Analytic Geometry-Calculus I and II. The B.A. requirement is 3450:149; Precalculus.
- English Composition I, 3300:111 (English Composition I) or 3300:113 (African-American Language and Culture I) are the recommended classes to meet the General Education English Requirement. 2020:121 (English) fulfills the English Composition I requirement. English Composition II, 3300:112 (English Composition II) or 3300:114 (African-American Language and Culture II) are the recommended classes to meet the General Education English requirement. 2020:222 (Technical Report Writing) fulfills the English Composition II requirement.
- Demonstration of ability to use another language by completion of the second year of a foreign language or sign language is required. See your advisor for placement. Please note that all four semesters must be completed in the SAME language and it's recommended you begin your first language class as soon as possible.
- 3350:100; Introduction to Geography is strongly recommended to meet the Social Sciences general education requirement.
- A total of 13 Geology electives at the 300/400 level is required. Please contact a Department of Geology adviser to discuss alternatives.
- General electives can be any course not already required by your major and Upper Level (300/400) electives can be any course in or outside your major excluding General Education courses and workshops.

GEOSCIENCES CONTACT: Ms. Elaine Butcher, 114 Crouse Hall, 330-972-7630, butch@uakron.edu

IN GENERAL: The Bachelor of Science or the Bachelor of Arts: The B.S. degree is intended for a student who plans to seek employment as a professional geologist or who plans to enter graduate studies in geology, environmental science or engineering. The B.A. degree is for a student who has strong interest in the geological sciences, and who wishes to take a larger number of electives than is compatible with the B.S program. The B.A. program has fewer math and science requirements and is not designed for a student who intends to seek admission to a graduate program in geology or seek employment as a professional geologist. The B.A. program is for students who seek employment in a geology or environmental science related field, and education. It also is appropriate for students who plan to enter graduate studies in a non-science field such as law school, geography, planning or public administration.

OPPORTUNITIES: Professional geologists follow a variety of careers within the general scope of geology. The search for petroleum, for metallic and non-metallic mineral deposits, and for water supplies all come within the domain of the geologist. Many work in environmental areas monitoring and solving potential and real pollution problems. Others work with engineers in evaluating preparation, terrain logistics, and general construction proposals. Petroleum companies, the mining industry, U.S. Geological survey, various state geological surveys, and numerous environmental consulting firms are some of the organizations that employ geologists.

Employment may be anywhere in the world. It may be of office type, all outside work, or a combination of both. It may be practical or research-oriented and it may require either much or little travel.

Salaries compare favorably with other scientists and engineers.

CAMPUS ORGANIZATIONS: Interested students should contact the department for information about joining the Geology Club (Faculty adviser: Dr. Verne Friberg, lfribe@uakron.edu) and the American Association of Petroleum Geologists (Faculty adviser: Dr. Ira Sasowsky, ids@uakron.edu).

TRANSFER TO COLLEGE OF ARTS & SCIENCES: Students should apply to the college upon the attainment of:

- ✓ a cumulative GPA of 2.0 or better (includes transfer coursework until 30 credits are earned at UA)
- ✓ a major GPA of 2.0 or better (includes transfer coursework until 30 credits are earned at UA)
- ✓ 30 credits completed including both required English composition courses and 3 credits of mathematics or statistics that meets the General Education requirement

Students can arrange inter-college transfers through an appointment with their academic advisor; advisor contact information is listed in "My Akron."

PLACEMENT: A student is encouraged to check with his/her major department and with the Career Center, Student Union 211, (330) 972-7747, regarding employment opportunities in the field.

COLLEGE OF ARTS & SCIENCES:

Degree requirements in Arts & Sciences include the demonstration of ability to use another language by completion of the second year of a foreign language or sign language and a minimum of 47 credits (excluding workshops and General Education courses) consisting of either:

- Upper-level (300/400) courses both in and outside the student's major
- Any courses outside the major department as specified in and approved by the student's major department chair (permission should be obtained prior to enrollment) except workshops and General Education courses

Geology Websites:

For careers in Geoscience visit: <http://www.earthscienceworld.org>

Ask-a-Geologist at <http://walrus.wr.usgs.gov/ask-a-geologist/>

U.S. Geological Survey at <http://www.usgs.gov>

Association of American State Geologists at <http://www.kgs.ukans.edu/AASG/AASG.html>

Link to other geology websites: <http://www.uakron.edu/colleges/artsci/depts/geology/links.php>