

THE UNIVERSITY OF AKRON

3370:03 ENGINEERING GEOLOGY

Bachelor of Science

NOTE TO STUDENT: A student is expected to be familiar with the degree requirements. The following information has official approval of the Department of Geology & Environmental Science but is intended only as a guide. Official degree requirements are established at the time of admission to the degree-granting college. **Students are encouraged to meet with the Geology undergraduate adviser in Crouse Hall 114, (330) 972-7630 during their first semester.**

FIRST YEAR

Fall Semester

	<u>Semester Credit Hours</u>	<u>Prerequisites</u>
3300:111 English Composition I	4	Appropriate Placement by Adviser
3450:221 Analytic Geometry-Calculus I	4	Placement Test or 3450:149
3370:101 Introduction to Physical Geology (Lecture & Lab)	4	
3150:151 Principles of Chemistry I (Lect. & Recitation)	3	Placement in 3450:149 or higher or permission
3150:152 Principles of Chemistry I Lab	<u>1</u>	3150:151 (co-req.)
	16	

Spring Semester

3300:112 English Composition II	4	3300:111 or equiv.
3450:222 Analytic Geometry-Calculus II	4	3450:221
*3370:102 Intro. to Historical Geology (Lecture & Lab)	4	3370:101
3150:153 Principles of Chemistry II (Lect. & Recitation)	3	3150:151, 152
7600:105 Introduction to Public Speaking -OR-		
7600:106 Effective Oral Communication	<u>3</u>	
	18	

SECOND YEAR

Fall Semester

3450:223 Analytic Geometry-Calculus III	4	3450:222
3650:291 Elem. Classical Physics I (Lecture & Lab)	4	3450:221
4300:201 Statics (Lecture & Problem Session)	3	Coreqs. 3450:222 & 3650:291
Language Requirement (Note a.)	3-4	
*3370:230 Mineral Science (Lecture & Lab)	<u>4</u>	3370:101
	19	

Spring Semester

3450:335 Introduction to Ordinary Differential Equations	3	3450:223
4300:202 Introduction to Mechanics of solids	3	4300:201
3650:292 Elem. Classical Physics II (Lecture & Lab)	4	3650:291
Language Requirement (Note a.)	3-4	
*3370:231 Silicate Mineralogy & Petrology (Lecture & Lab)	4	3370:101; 3370:230 recommended
Physical Education/Wellness (Note b.)	<u>1-3</u>	
	19-21	

NOTES:

- a. Completion of the second year of a foreign language is required or a student may take five Sign Language courses instead. (7700:101, American Sign Language I; 7700:102, American Sign Language II; American Sign Language III; American Sign Language IV; 7700:222, Survey of Deaf Culture in America).
- b. Please see the General Education Guide at www.uakron.edu/colleges/univcoll/guides for options.
In addition to the General Education requirements above, Social Science and Humanities in Western Tradition courses are required. Please consult the General Education Guide at the link above or your adviser regarding acceptable courses.

* These courses are only offered in the term listed.

POLICY 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.

Engineering Geology Adviser – Dr. John Szabo, Crouse Hall 64, (330) 972-7630, e-mail: jpszabo@uakron.edu
Visit the Department of Geology & Environmental Science on the web at <http://www.uakron.edu/geology/>

IN GENERAL: The Bachelor of Science in Engineering Geology is intended for a student who plans to seek employment as a professional geologist working with engineers or in an engineering-related area, or one who plans to enter graduate studies in geology or a related field.

OPPORTUNITIES: Professional engineering geologists follow a variety of careers within the general scope of geology and engineering. Slope stability, foundation analysis for construction of edifices and highways, and pollution problem-solving are some of the areas of concern for Engineering 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 and availability of jobs compares favorably with other scientists and engineers.

CAMPUS ORGANIZATIONS: An interested student 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 AND SCIENCES: A student should apply to the college upon completion of 30 credits and a 2.0 or better overall GPA (including transfer work). In addition, the student must have achieved a 2.0 in all coursework in the major field (including transfer work). The 30 credits must include the completion of both English Composition courses and 3 credits of mathematics or statistics which meets the General Education requirement. This transfer process is completed through an appointment with an academic adviser, the Academic Advisement Center, Simmons Hall 205, (330) 972-7430, or Summit College, Polsky 301, (330) 972-7220, depending upon the college in which you reside.

PLACEMENT: A student is encouraged to check with his/her major department and with the Center for Career Management, Simmons Hall 301, (330) 972-7747, regarding employment opportunities in the field.

COLLEGE OF ARTS & SCIENCES: Degree requirements in Arts & Sciences include the first and second year of a foreign language or American Sign language (most majors), and 47 credits of 300/400 level courses, not including workshops or courses that meet the Humanities in the Western Tradition or Area Studies and Cultural Diversity requirements.

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>

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