Environmental Science 337004BA

Attention students who were admitted to this program prior to Fall 2015, please refer to the curriculum guide found on page 5. The curriculum guide below on this page is for students admitted to this program for Fall 2015 or later.

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. Students should refer to the Degree Auditing Reporting System (DARS) which is definitive for graduation requirements. *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 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

CURRICULUM GUIDE FOR STUDENTS ADMITTED TO THIS PROGRAM FOR FALL 2015 OR LATER:

1st Year	**Fall Semester**	Credit Hours	Prerequisites
3370:101	*Intro to Physical Geology Lecture & Lab* (Note a)	4	
	English Composition I Requirement (Note h)	3	Appropriate placement by advisor
	Speech / Oral Communication Requirement	3	
or 7700:101	Beginning Language I **-OR-** Beginning Sign Language (Note c)	4 **or** 3	
	Social Science Requirement (Note e)	3	
Total		**16-17**	

1st Year	**Spring Semester**		
3450:149	*Pre-Calculus* (Note b)	4	3450:145 or appropriate placement by advisor
	English Composition II Requirement (Note h)	3	3300:111 or equivalent
7700:102	Beginning Language II **-OR-** American Sign Language II	4 **or** 3	Beginning Language I **or** 7700:101
	Social Science Requirement (Note e)	3	
	Physical Education/Wellness Requirement	1	
Total		**14-15**	

2nd Year	**Fall Semester**		
3400:210 **or** 3400:221	*Humanities in the Western Tradition* ***-OR-*** *Humanities in the World Since 1300*	4	32 credits & 3300:112 or equivalent 32 credits & 3300:112 or equivalent
3100:111	Principles of Biology I Lecture & Lab	4	3150:151, prerequisite or corequisite
3150:151	Principles of Chemistry I Lecture & Recitation	3	Placement in 3450:149 or higher
3150:152	Principles of Chemistry I Laboratory	1	3150:151, prerequisite or corequisite
7700:201	Intermediate Language I **-OR-** American Sign Language III	3	Beginning Language II **or** 7700:102
Total		**15**	

2nd Year	**Spring Semester**		
3370:231	Silicate Mineralogy and Petrology	4	3370:101; 3150:151, 3150:152 prerequisite

	(Spring term only)		or corequisite
3100:112	Principles of Biology II Lecture & Lab	4	3100:111 with a C- or better
7700:202 7700:222	Intermediate Language II **-OR-** American Sign Language IV **-AND** Survey of Deaf Culture in America	3 **or** 3 2	Beginning Language II **or** 7700:201 Sign Language students only
	Area Studies/Cultural Diversity Requirement	2	
	Humanities Elective Requirement	3	
Total		**16-18**	

3rd Year	**Fall Semester**		
3370:452 **or** 3370:453	Geology & Environmental Sci. Service Learning **-OR-** Geology Field Camp I	1-4 or 3	Permission of Instructor 3370:101 and 102 and permission
	Humanities Requirement	3	
3370:3/4xx	Upper level Geology electives (Note f)	6	
3370:3/4xx	Upper level Science electives (Note d)	2	
3370:xxx	Geology elective (Note f)	3	
Total		**15-18**	

3rd Year	**Spring Semester**		
3370:310	Geomorphology	3	3370:101
xxxx:3/4xx	Upper level Science Elective (Note d)	3	
3370:3/4xx	Upper level Geology electives (Note f)	9	
Total		**15**	

3rd Year	**Summer Semester**		
3370:453 **or** 3370:452	Geology Field Camp I **-OR-** Geology & Environmental Sci. Service Learning	3 **or** 1-4	3370:101 and 102 and permission Permission of Instructor
Total		**1-4**	

4th Year	**Fall Semester**		
	Area Studies/Cultural Diversity Requirement	2	
xxxx:3/4xx	Upper level Science Elective (Note d)	3	
xxxx:3/4xx	Upper level Electives (Note d)	3	
	Electives	5	
Total		**13**	

4th Year	**Spring Semester**		
3370:3/4xx	Upper level Geology electives (Note f)	3	
	Upper level Electives (Note d)	5	
	Electives	4	
Total		**12**	

	Minimum Total Credits for Degree	120**min**	

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:

a. **3370:101; Introductory Physical Geology Strongly Preferred, OR** 3370:100; Earth Science, **OR** 3370:200; Environmental Geology; **OR** (by permission only) 3370:211; Introduction to Environmental Science AND 3370:104; Exercises in Physical Geology.

b. All Geology majors should take the Math Placement Test. The B.A. requirement is 3450:149; Precalculus.

c. 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.

d. B.A. degree requires completion of at least 8 credits from the following and these options can satisfy the upper level requirement for Arts & Sciences as well (300/400 level): 3100:217; General Ecology, 3150:153; Principles of Chemistry II, 3150:154; Qualitative Analysis, 3650:291/292; Elementary Classical Physics I and II, 3450:221, 222; Analytical Geometry-Calculus I & II.

e. Introduction to Geography and 3240:100; Introduction to Archaeology recommended.

f. Departmental electives: at least 18 credits with a minimum of 11 credits at the 300/400 level. Up to 8 credits may be selected from the Environmental Studies Certificate electives list. Please contact a Department of Geology & Environmental Science adviser to discuss alternatives.

g. 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 workshops.

h. For English Composition I, 3300:111 (English Composition I) or 3300:113 (African-American Language and Culture I) are the recommended classes to the meet the General Education English requirement. 2020:121 (English) fulfills the English Composition I requirement. For English Composition II, 3300:112 (English Composition II) or 3300:114 (African-American Language and Culture II) are the recommended classes to the meet the General Education English requirement. 2020:222 (Technical Report Writing) fulfills the English Composition II requirement.

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: Environmental scientists follow a variety of careers within the general scope of environmental science. Many work for environmental companies or state agencies monitoring and solving potential and real pollution problems. These include conducting biological or water quality surveys of surface waters such as streams or lakes. Others work with engineers in evaluating sustainability plans such as waste stream mining in factories of major industries. Still others may become employed in grant proposal writing for recycling, sustainability, or other "green" programs.

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.

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."

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 40 credits (excluding workshops) 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

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.

Environmental Science 337004BA

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**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 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

CURRICULUM GUIDE FOR STUDENTS ADMITTED TO THIS PROGRAM PRIOR TO FALL 2015:

1st Year	**Fall Semester**	Credit Hours	Prerequisites
3370:101	*Intro to Physical Geology Lecture & Lab* (Note a)	4	
	English Composition I Requirement (Note h)	3	Appropriate placement by advisor
	Speech / Oral Communication Requirement	3	
or 7700:101	Beginning Language I **-OR-** Beginning Sign Language (Note c)	4 **or** 3	
	Social Science Requirement (Note e)	3	
Total		**16-17**	

1st Year	**Spring Semester**		
3450:149	*Pre-Calculus* (Note b)	4	3450:145 or appropriate placement by advisor
	English Composition II Requirement (Note h)	3	3300:111 or equivalent
7700:102	Beginning Language II **-OR-** American Sign Language II	4 **or** 3	Beginning Language I **or** 7700:101
	Social Science Requirement (Note e)	3	
	Physical Education/Wellness Requirement	1	
Total		**14-15**	

2nd Year	**Fall Semester**		
3400:210 **or** 3400:221	*Humanities in the Western Tradition* ***-OR-*** *Humanities in the World Since 1300*	4	32 credits & 3300:112 or equivalent 32 credits & 3300:112 or equivalent
3100:111	Principles of Biology I Lecture & Lab	4	3150:151, prerequisite or corequisite
3150:151	Principles of Chemistry I Lecture & Recitation	3	Placement in 3450:149 or higher
3150:152	Principles of Chemistry I Laboratory	1	3150:151, prerequisite or corequisite
7700:201	Intermediate Language I **-OR-** American Sign Language III	3	Beginning Language II **or** 7700:102
Total		**15**	

2nd Year	**Spring Semester**		
3370:231	Silicate Mineralogy and Petrology (Spring term only)	4	3370:101; 3150:151, 3150:152 prerequisite or corequisite

3100:112	Principles of Biology II Lecture & Lab	4	3100:111 with a C- or better
7700:202 7700:222	Intermediate Language II **-OR-** American Sign Language IV **-AND** Survey of Deaf Culture in America	3 **or** 3 2	Beginning Language II **or** 7700:201 Sign Language students only
	Area Studies/Cultural Diversity Requirement	2	
	Humanities Elective Requirement	3	
Total		**16-18**	

3rd Year	**Fall Semester**		
3370:452 **or** 3370:453	Geology & Environmental Sci. Service Learning **-OR-** Geology Field Camp I	1-4 or 3	Permission of Instructor 3370:101 and 102 and permission
	Humanities Requirement	3	
3370:3/4xx	Upper level Geology electives (Note f)	6	
3370:3/4xx	Upper level Science electives (Note d)	2	
3370:xxx	Geology elective (Note f)	3	
Total		**15-18**	

3rd Year	**Spring Semester**		
3370:310	Geomorphology	3	3370:101
xxxx:3/4xx	Upper level Science Elective (Note d)	3	
3370:3/4xx	Upper level Geology electives (Note f)	9	
Total		**15**	

3rd Year	**Summer Semester**		
3370:453 **or** 3370:452	Geology Field Camp I **-OR-** Geology & Environmental Sci. Service Learning	3 **or** 1-4	3370:101 and 102 and permission Permission of Instructor
Total		**1-4**	

4th Year	**Fall Semester**		
	Area Studies/Cultural Diversity Requirement	2	
xxxx:3/4xx	Upper level Science Elective (Note d)	3	
xxxx:3/4xx	Upper level Electives (Note d)	6	
	Electives	6	
Total		**17**	

4th Year	**Spring Semester**		
3370:3/4xx	Upper level Geology electives (Note f)	3	
	Upper level Electives (Note d)	9	
	Electives	4	
Total		**16**	

	Minimum Total Credits for Degree	**128 min**	

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- 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

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