

PROGRAM CODE
ULASENVGO
EFFECTIVE DATE
SPRING 2020
VERSION NUMBER
2202

COLLEGE OF LIBERAL ARTS AND SCIENCES

ENVIRONMENTAL SCIENCE

BACHELOR OF SCIENCE

GEOLOGY TRACK

STUDENT NAME:

: ID NUMBER

MAJOR PROGRAM

Environmental Science Core		
REQUIRED COURSES	CR	GRADE
ENV 100: INTRODUCTION to ENVIRONMENTAL SCIENCE	3	
ENV 210: ENVIRONMENTAL GEOLOGY	3	
ENV 220: ENVIRONMENTAL ANALYSIS	3	
ENV 222: ENVIRONMENTAL BIOLOGY <i>or</i> BIO 244: ECOLOGY	3-4	
GEG 274: INTRO. to GEOGRAPHIC INFORMATION SYSTEMS	3	
ENV 380: SENIOR SEMINAR	2	
TOTAL CREDITS	17-18	

Geology Track		
REQUIRED COURSES	CR	GRADE
GEL 100: PHYSICAL GEOLOGY	4	
GEL 102: HISTORICAL GEOLOGY	4	
GEL 200: FIELD GEOLOGY	3	
GEL 358: GENERAL GEOPHYSICS	3	
GEL 362: HYDROGEOLOGY	3	
GEL/ENV/BIO/CHM/GEG/MAT	3	
TOTAL CREDITS	20	

Check Sheet Last Revised: 4/09/2019

NOTES:

- CHOICE OF COURSES MADE WITH ADVISOR FROM A LIST MAINTAINED BY ENVIRONMENTAL SCIENCE COMMITTEE.
- A GRADE OF C OR BETTER FOR BIO 104 IS REQUIRED TO BE COUNTED AS A PREREQUISITE.
- RECOMMENDED TO BE USED FOR COMPLETING 1 OR 2 MINORS IN BIO, CHM, OR GEG.

▲ INDICATES COURSES REQUIRED FOR THE MAJOR, BUT MAY BE USED TO SATISFY REQUIREMENTS OF GENERAL EDUCATION. THESE UNITS ARE ONLY COUNTED UNDER GENERAL EDUCATION.


CONCOMITANT COURSES

COURSE	CR	GRADE
Biology		
BIO 104: PRINCIPLES of BIOLOGY ¹ (4 cr) (GE C1)	▲	
BIO 106 INTRODUCTION to ZOOLOGY <i>or</i> BIO 108: INTRODUCTION to BOTANY	4	
Chemistry		
CHM 100: GENERAL CHEMISTRY I (4 cr) (GE C3)	▲	
CHM 102: GENERAL CHEMISTRY II	4	
CHM 214: ORGANIC CHEMISTRY I <i>or</i> CHM 204: FUNDAMENTALS of ORGANIC CHEMISTRY	4	
Geography		
GEG 10: ELEMENTS of PHYSICAL GEOGRAPHY	3	
Mathematics		
MAT 106: TRIGONOMETRY (3 cr) <i>or</i> MAT 115: PRECALCULUS (3 cr) <i>or</i> MAT 181: CALCULUS I (4 cr)	3-4	
Physics		
PHY 40: GENERAL PHYSICS I (4 cr) <i>and</i> (GE C2)	▲	
PHY 42: GENERAL PHYSICS II	4	
<i>or</i> PHY 100: PHYSICS I <i>and</i> PHY 102: PHYSICS II		
TOTAL CREDITS	22-23	

FREE ELECTIVES³

COURSE	CR	GRADE
TOTAL CREDITS	14-16	

GRADUATION REQUIREMENTS

	REQUIRED	✓	REQUIRED	✓	
	GENERAL EDUCATION CREDITS	45		COMPREHENSIVE EXAM	PASS
	PROGRAM CREDITS (MINIMUM)	59		MINIMUM QPA OVERALL	2.0
	FREE ELECTIVES	16		MINIMUM QPA IN MAJOR	2.0
	TOTAL CREDITS (120 MIN NEEDED TO GRADUATE)	120			

NAME	EFFECTIVE DATE AUGUST 27, 2018
ID NUMBER	VERSION 2188

KUTZTOWN

UNIVERSITY

DEGREE REQUIREMENTS

GENERAL EDUCATION

Student Learning Outcomes (SLO)

Upon completion of the requirements for the General Education Program, students will be able to:

- 1 communicate clearly and effectively orally and in writing.
- 2 apply scientific and quantitative reasoning to solve problems and increase knowledge.
- 3 apply skills in critical analysis and reasoning for the interpretation of data.
- 4 engage critically with creative or artistic works.
- 5 demonstrate the ability to retrieve, interpret, evaluate, and use information.
- 6 analyze the role of values, ethics, diversity, and multiple perspectives in local and global society.
- 7 demonstrate an understanding of various models for the development of the whole person.

Completion of the KU General Education program will give students opportunities to:

- 8 explore concepts, ideas, and methods from a variety of disciplines.

Use this checksheet to plan your degree program. Meet every semester with your academic advisor to be sure that you are taking courses that are required to obtain the degree you are seeking. Discuss your goals and choose courses that will help you to attain them. Get the most out of your education by taking advantage of everything that Kutztown University has to offer.

TOTAL GENERAL EDUCATION CREDITS 42-45

FIND A FULL EXPLANATION OF THE GENERAL EDUCATION PROGRAM AT WWW.KUTZTOWN.EDU

First Year Seminar: Discovering College	CREDITS REQUIRED	3
THIS COURSE MEETS SLO 5 & 7		CREDITS EARNED:

COURSE NUMBER	COURSE NAME	CR	GR
FYS 100	First Year Seminar		

TRANSFER STUDENTS TRANSFERRING 15 CREDITS OR MORE AND NOT TRANSFERRING AN FYS OR FYE COURSE MAY SELECT ANY ADDITIONAL COURSE FROM SECTIONS A, B, C, OR D TO MEET THEIR FYS REQUIREMENT

TRANSFER ELECTIVE:

A	Communicating With And About the World	CREDITS REQUIRED	12
THESE COURSES MEET SLO 1 & 5		CREDITS EARNED:	

COURSE NUMBER	COURSE NAME	CR	GR
1	COMPOSITION 100 LEVEL CMP 1__		
2	COMPOSITION 200 LEVEL CMP 2__		
3	SPEAKING		
4	ANY WRITING (A2) OR SPEAKING COURSE (A3) OR FROM THE APPROVED LIST		

COURSES IN CATEGORIES B, C & D MUST BE TAKEN OUTSIDE THE STUDENT'S MAJOR. THE MAJOR IS DEFINED AS THE PREFIX THAT IDENTIFIES THE MAJOR. CONCOMITANT REQUIREMENTS MAY BE TAKEN TO MEET GENERAL EDUCATION REQUIREMENTS.

B	Understanding Self & Others	CREDITS REQUIRED	9
THESE COURSES MEET SLO 3 & 6		CREDITS EARNED:	

COURSE NUMBER	COURSE NAME	CR	GR
1			
2			
3			

C	Understanding Science & Technology	CREDITS REQUIRED	9-12
THESE COURSES MEET SLO 2 & 3		CREDITS EARNED:	

COURSE NUMBER	COURSE NAME	CR	GR
1	SCIENTIFIC INQUIRY		
2	QUANTITATIVE REASONING		
3	ANY COURSE APPROVED FOR C1 OR C2		

D	Understanding & Creating Ideas	CREDITS REQUIRED	9
THESE COURSES MEET SLO 4 & 6		CREDITS EARNED:	

COURSE NUMBER	COURSE NAME	CR	GR
1			
2			
3			

ELECTIVE COURSES for MAJOR PROGRAM

ENV	GEL	BIO	GEG
ENV 224: Appl. Env. Microbiology	GEL 205: Planetary Surface Processes	BIO 106: Intro to Zoology	<i>Physical Geography</i>
ENV 370: Research in Env. Science	GEL 220: Mineralogy	BIO 108: Intro to Botany	GEG 40: Descriptive Oceanography
	GEL 230: Paleontology	<i>Advanced Plant</i>	GEG 204: Meteorology
MAT	GEL 302: Economic Geology	BIO 230: Plant Taxonomy	GEG 304: Weather Analysis
MAT 140: Applied Statistics	GEL 304: Structural Geology	BIO 232: Plant Physiology	GEG 322: Climatology
MAT 150: Biostatistics	GEL 346: Sedimentology and Stratigraphy	BIO 236: Plant Pathology	GEG 323: Global Warming and the Science of Climate Change
MAT 181: Calculus I	GEL 366: Marine Geology	BIO 324: Plant Ecology	<i>Planning and Conservation</i>
MAT 182: Calculus II		<i>Advanced Animal</i>	GEG 210: Environmental Conservation
		BIO 218: Vertebrate Biology	GEG 212: Geography of Natural Hazards
	CHM	BIO 302: Entomology	GEG 341: Environmental Planning
	CHM 216: Organic Chemistry II	BIO 308: Ornithology	GEG 343: Land Use Planning
	CHM 230: Analytical Chemistry I	BIO 316: Invertebrate Biology	<i>Geographic Techniques</i>
	CHM 314: Physical Chemistry I	BIO 342: Herpetology	GEG 330: Cartography
		BIO 457: Systematic Entomology	GEG 333: Advanced GIS
		<i>Advanced Ecology</i>	GEG 347: Remote Sensing of the Environment
		BIO 320: Physiological Ecology of Animals	
		BIO 322: Population and Community Ecology	
		BIO 326: Marine Ecology	
		BIO 332: Aquatic Ecology	
		BIO 358: Conservation Biology	

**B.S. Environmental Science/Geology
Example Eight Semester Plan**

ULASENVGO	First Semester Suggested Advising for Connections
ENV 100	***If ENV 100 is full, enroll in CHM 100
GEG 10	***If GEG 10 is full, enroll in CMP 100 or COM 10
GEL 100	
MAT 105, 106, 115, or 181 depending on ALEKS placement score.	
FYS 100	

Freshman - Fall	Credits	Freshman - Spring	Credits
ENV 100	3	GEL 102	4
GEG 10	3	CHM 100	4
GEL 100	4	COM 10 (A.3.)	3
MAT 106	3	CMP 100 (A.1.)	3
FYS 100	3		
Total	16	Total	14
Sophomore - Fall		Sophomore - Spring	
BIO 104	4	BIO 106/GEG274	4/3
PHY 40	4	ENV 220	3
CHM 102	4	PHY 42	4
A. 2.	3	D.1.	3
		B. 1.	3
Total	15	Total	17/16
Junior - Fall		Junior - Spring	
CHM 214	4	ENV 222	3
GEG 274/BIO108	3/4	GEL 362	3
ENV 210	3	B. 2.	3
GEL 200	3	D. 2.	3
Free Elective	3		
Total	16/17	Total	12
Senior - Fall		Senior - Spring	
GEL 358	3	ENV 380	2
B.3.	3	A. 4.	3
GEL/ENV/BIO/CHM/GEG MAT Elective	3	D. 3.	3
Free Elective	4	Free Elective	3
Free Elective	3	Free Elective	3
Total	16	Total	14