

PROGRAM CODE
ULASENVGE
EFFECTIVE DATE
SPRING 2020
VERSION NUMBER
2202

COLLEGE OF LIBERAL ARTS AND SCIENCES

ENVIRONMENTAL SCIENCE

BACHELOR OF SCIENCE

GEOGRAPHY 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	

Geography Track ¹ (Required courses plus 4 GEG electives)	CR	GRADE
GEG 10: ELEMENTS of PHYSICAL GEOGRAPHY	3	
GEG:	3	
GEG:	3	
GEG:	3	
GEG:	3	
GEG 375: RESEARCH METHODS in GEOGRAPHY ²	3	
GEG 394: INTERNSHIP in GEOGRAPHY	2/3	
ENVIRONMENTAL SCIENCE ELECTIVES¹ (Select 1 course)		
ENV/BIO/CHM/GEG/GEL/MAT/PHY	3/4	
TOTAL CREDITS	23-25	

FREE ELECTIVES⁵

COURSE	CR	GRADE
TOTAL CREDITS	13-17	

CONCOMITANT COURSES

COURSE	CR	GRADE
Biology		
BIO 104: PRINCIPLES of BIOLOGY ³ (GE C1)	▲	
BIO 106: INTRODUCTION to ZOOLOGY <i>or</i> BIO 108: INTRODUCTION to BOTANY	4	
Chemistry		
CHM 100: GENERAL CHEMISTRY I (GE C3)	▲	
CHM 102: GENERAL CHEMISTRY II	4	
Geology		
GEL 100: PHYSICAL GEOLOGY (GE C2)	▲	
Math and Statistics⁴		
MAT 106: TRIGONOMETRY (3) <i>or</i> MAT 115: PRECALCULUS (3) <i>or</i> MAT 181: CALCULUS I (4)	3/4	
MAT 140: APPLIED STATISTICS <i>or</i> MAT 150: BIostatISTICS <i>or</i> PSY 200: STATS for SOCIAL & BEHAV. SCI	3	
Physics		
PHY 40: GENERAL PHYSICS I <i>or</i> PHY 100: PHYSICS I	4	
TOTAL CREDITS	18-19	

NOTES:

1. CHOICE OF COURSES MADE WITH ADVISOR FROM A LIST MAINTAINED BY THE ENVIRONMENTAL SCIENCE COMMITTEE.

2. A STATISTICS COURSE IS PREREQUISITE TO GEG 375 RESEARCH METHODS. ALSO, STUDENTS MUST REGISTER IN THE GEOGRAPHY DEPARTMENT OFFICE SINCE A GEOGRAPHY CREDIT OVERRIDE IS NECESSARY.

3. A GRADE OF C OR BETTER FOR BIO 104 IS REQUIRED TO BE COUNTED AS A PREREQUISITE TO ENV 222.


4. MAT 140 AND 150 REQUIRE EITHER MAT 105, 106, OR 115 AS A PREREQUISITE. PSY/SOC/POL 200 STATISTICS FOR THE SOCIAL AND BEHAVIORAL SCIENCES REQUIRES PSY 11 AND MAT 17 OR HIGHER (EXCLUDING 40 AND 45) AS PREREQUISITES.

5. THE NUMBER OF NEEDED FREE ELECTIVES CREDITS SHOULD BE DETERMINED IN CONSULTATION WITH A FACULTY ADVISOR.

▲ INDICATES COURSE REQUIRED FOR THE MAJOR BUT USED TO SATISFY REQUIREMENTS OF GENERAL EDUCATION SECTION C. THESE UNITS ARE ONLY COUNTED UNDER GENERAL EDUCATION.

Check Sheet Last Revised: 4/12/2019

GRADUATION REQUIREMENTS

	REQUIRED	✓		REQUIRED	✓
	GENERAL EDUCATION CREDITS	45		COMPREHENSIVE EXAM	PASS
	PROGRAM CREDITS (Minimum)	58		MINIMUM QPA OVERALL	2.0
	FREE ELECTIVES	17		MINIMUM QPA IN MAJOR	2.0
	TOTAL CREDITS (Minimum of 120 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	CHM	BIO	GEG
ENV 224: Appl. Env. Microbiology	CHM 204: Fund. of Organic Chem.	BIO 106: Intro to Zoology	<i>Physical Geography</i>
ENV 370: Research in Env. Science	CHM 214: Organic Chemistry I	BIO 108: Intro to Botany	GEG 40: Descriptive Oceanography
	CHM 230: Analytical Chemistry I	<i>Advanced Plant</i>	GEG 204: Meteorology
		BIO 230: Plant Taxonomy	GEG 304: Weather Analysis
MAT	GEL	BIO 232: Plant Physiology	GEG 322: Climatology
MAT 182: Calculus II	GEL 102: Historical Geology	BIO 236: Plant Pathology	GEG 323: Global Warming...
	GEL 200: Field Geology	BIO 324: Plant Ecology	<i>Planning and Conservation</i>
PHY	GEL 304: Structural Geology	<i>Advanced Animal</i>	GEG 210: Environmental Conservation
PHY 42: General Physics II	GEL 358: General Geophysics	BIO 218: Vertebrate Biology	GEG 212: Geography of Natural Hazards
PHY 102: Physics II	GEL 362: Hydrogeology	BIO 302: Entomology	GEG 341: Environmental Planning
		BIO 308: Ornithology	GEG 343: Land Use Planning
		BIO 316: Invertebrate Biology	<i>Geographic Techniques</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 Env.
		BIO 320: Physiological Ecology of Animals	
		BIO 322: Pop. and Community Ecology	
		BIO 326: Marine Ecology	
		BIO 332: Aquatic Ecology	
		BIO 358: Conservation Biology	

Four-Year Program Plan

ULASENVGE: BS Environmental Science - Geography Track Version 2202 Spring 2020					
FIRST YEAR					
<i>Fall Semester^a</i>			<i>Spring Semester</i>		
Course	Title	Credits	Course	Title	Credits
BIO 104	▲Principles of Biology GE C1	4	BIO 106	Zoology (or 108 Botany in Fall)	4
CMP 1xx	Composition 1/2	3	CHM 100	▲General Chemistry GE C3	4
ENV100	Introduction to Environmental Science	3	GEG	Track Course 1/4	3
FYS	First Year Seminar	3	MAT	106, 115, or 181 (4 credits)	3/4
GEG 10	Elements of Physical Geography	3		#Free Elective	3
Total		16	Total		17/18
SECOND YEAR					
<i>Fall Semester</i>			<i>Spring Semester</i>		
Course	Title	Credits	Course	Title	Credits
CHM 102	General Chemistry II	4	ENV 220	Environmental Analysis	3
GEG 274	Intro. to Geographic Info. Systems	3	ENV 222	Environmental Biology	3
GEG	Track Course 2/4	3	GEG	Track Course 3/4	3
GEL 100	▲Physical Geology GE C2	4		Speaking Course GE A3	3
	#Free Elective	3		Understanding Ideas GE D 1/3	3
Total		17	Total		15
THIRD YEAR					
<i>Fall Semester</i>			<i>Spring Semester</i>		
Course	Title	Credits	Course	Title	Credits
CMP 2xx	Composition 2/2	3	ENV 210	Environmental Geology	3
GEG	Track Course 4/4	3	MAT 140/PSY 200	Statistics*	3
PSY 11	Introductory Psychology GE B 1/3	3		CMP or Speaking course GE A4	3
	#Free Elective	3		Understanding Self GE B 2/3	3
	#Free Elective	3		#Free Elective	3
Total		15	Total		15
FOURTH YEAR					
<i>Fall Semester</i>			<i>Spring Semester</i>		
Course	Title	Credits	Course	Title	Credits
GEG 375	*Research Methods in Geography	3	ENV 380	Senior Seminar	2
PHY 40 or 100	General Physics I or Physics I	3	GEG 394	Internship in Geography	2/3
	Understanding Ideas GE D 2/3	4		Env. Sci. Elective (consult listing)	3/4
	#Free Elective	3		Understanding Self GE B 3/3	3
				Understanding Ideas GE D 3/3	3
Total		13	Total		13/15
General Education Effective Fall 2018 (2188)		Credits	Note: ▲ Indicates a Directed Course in General Education. The units for these courses count only under General Education		
FYS	First Year Seminar	3			
A	Communicating With and About the World				
1	CMP 1xx	3	Statistics Requirement: *Statistics is a prerequisite to GEG 375. Take as: MAT 140 or 150, or POL/PSY/SOC 200. MAT 105 is a prerequisite for MAT 140 or MAT 150. PSY 11 and MAT 17 or higher (excluding 40 and 45) are prerequisites for PSY 200. If opting for MAT 140 or 150, PSY 11 may be replaced by another GE B Understanding Self and Others course.		
2	CMP 2xx	3			
3	Speaking	3			
4	Additional A2 or A3 or approved course	3			
B	Understanding Self and Others				
1		3			
2		3			
3		3			
C	Understanding Science and Technology				
1	Scientific Inquiry: BIO 104	4	*1st SEMESTER CONNECTIONS ADVISING If ENV 100 is full, enroll in CHM 100. if BIO 104 is full, enroll in GEL 100. If CMP 1xx is full, check for MAT courses. Take MAT 106 if ALEKS is 61 or higher. If ALEKS > 46 < 61, take MAT 105.		
2	Quantitative Reasoning: GEL 100	4			
3	Additional course: CHM 100	4			
D	Understanding and Creating Ideas				
1		3			
2		3			
3		3			
Total General Education Credits		45	# The number of Free Electives credits must be determined in consultation with an academic advisor.		