

PROGRAM CODE ULASENVBI EFFECTIVE DATE SPRING 2020 VERSION NUMBER 2202	COLLEGE OF LIBERAL ARTS AND SCIENCES
<h1 style="margin: 0;">ENVIRONMENTAL SCIENCE</h1> <hr style="width: 50%; margin: 5px auto;"/> <p style="margin: 0;">BACHELOR OF SCIENCE</p>	
BIOLOGY 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 or BIO 244: ECOLOGY	3-4	
GEG 274: INTRO. to GEOGRAPHIC INFORMATION SYSTEMS	3	
ENV 380: SENIOR SEMINAR	2	
TOTAL CREDITS	17 - 18	

Biology Track		
REQUIRED + ELECTIVE COURSES ¹	CR	GRADE
BIO 104: PRINCIPLES of BIOLOGY ²	4	
BIO 106 INTRODUCTION to ZOOLOGY	4	
BIO 108: INTRODUCTION to BOTANY	4	
BIO 224: APPLIED ENVIRONMENTAL MICROBIOLOGY	3	
ADVANCED PLANT COURSE	3	
ADVANCED ANIMAL COURSE	3	
ADVANCED ECOLOGY	3	
BIO 2XX or 3XX or ENV 3XX ELECTIVE	3	
TOTAL CREDITS	27	

NOTES:

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

Check Sheet Last Revised: 4/09/2019

CONCOMITANT COURSES

COURSE	CR	GRADE
Chemistry		
CHM 100: GENERAL CHEMISTRY I (GE C1)	▲	
CHM 102: GENERAL CHEMISTRY II	4	
CHM 204: FUNDAMENTALS of ORGANIC CHEMISTRY	4	
Geography		
GEG 10: ELEMENTS of PHYSICAL GEOGRAPHY	3	
Geology		
GEL 100: PHYSICAL GEOLOGY (GE C2)	▲	
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>or</i> (GE C3)	▲	
PHY 100: PHYSICS I (4 cr)		
TOTAL CREDITS	14-15	

FREE ELECTIVES³

COURSE	CR	GRADE
TOTAL CREDITS	15-17	

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 (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

<i>Advanced Plant</i>	<i>Advanced Animal</i>	<i>Advanced Ecology</i>
BIO 230: Plant Taxonomy	BIO 218: Vertebrate Biology	BIO 320: Physiological Ecology of Animals
BIO 232: Plant Physiology	BIO 302: Entomology	BIO 322: Population and Community Ecology
BIO 236: Plant Pathology	BIO 308: Ornithology	BIO 326: Marine Ecology
BIO 324: Plant Ecology	BIO 316: Invertebrate Biology	BIO 332: Aquatic Ecology
	BIO 342: Herpetology	BIO 358: Conservation Biology
	BIO 457: Systematic Entomology	

B.S. Environmental Science/Biology Example 4-Year Schedule

ULASENVBI	First Semester Suggested Advising for Connections
BIO 104	
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
MAT 105, 106, 115, or 181	depending on ALEKS placement score.

Freshman Year

Fall Semester	Cr	Spring Semester	Cr
BIO 104 - Principles of Biology	4	BIO 106 - Intro to Zoology	4
ENV 100 - Intro to Env Sci	3	GEL100 - Physical Geology (C2)	4
GEG 10 - Elem Phys Geography (C1)	3	Gen Ed (A1 - CMP 1XX)	3
MAT 106 - Trigonometry*	3	FYS - First Year Seminar	3
Total	13	Total	14

*Students may be at a different level of math depending on ALEKS placement score.

Sophomore Year

Fall Semester	Cr	Spring Semester	Cr
BIO 108 - Intro to Botany	4	ENV 222 - Env Biology	3
CHM 100 - Gen Chem I (C1)	4	ENV 210 - Env Geology	3
GEG 274 - Intro to GIS	3	CHM 102 - Gen Chem II	4
Adv Plant, Animal or Ecology	3	Gen Ed (A3 - COM 10)	3
		Gen Ed (B1)	3
Total	14	Total	16

Junior Year

Fall Semester	Cr	Spring Semester	Cr
CHM 204 or 214 - Organic Chem I	4	BIO 2XX/3XX OR ENV 3XX Elective	3
ENV 224 - App Env Microbiology	3	ENV 220 - Env Analysis	3
Advanced Plant, Animal or Ecology	3	Gen Ed (A4)	3
Gen Ed (A2 - CMP2XX)	3	Gen Ed (B2)	3
Gen Ed (D1)	3	Free Elective	4
Total	16	Total	16

Senior Year

Fall Semester	Cr	Spring Semester	Cr
Advanced Plant, Animal or Ecology	3	ENV 380 - Senior Seminar	2
PHY 40 or 100 (C3)	4	Gen Ed (D3)	3
Gen Ed (D2)	3	Free Elective	4
Gen Ed (B3)	3	Free Elective	3
Free Elective	3	Free Elective	3
Total	16	Total	15