

PROGRAM CODE ULASENVBI EFFECTIVE DATE 8/27/2018 VERSION NUMBER 2188	COLLEGE OF LIBERAL ARTS AND SCIENCES <h1 style="margin: 0;">ENVIRONMENTAL SCIENCE</h1> <i>BACHELOR OF SCIENCE</i> 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	3	
ENV 380: SENIOR SEMINAR	2	
TOTAL CREDITS	14	

Biology Track		
REQUIRED COURSES	CR	GRADE
BIO 104: PRINCIPLES of BIOLOGY	4	
BIO 106: INTRODUCTION to ZOOLOGY	4	
BIO 108: INTRODUCTION to BOTANY	4	
ENV 224: APPLIED ENVIRONMENTAL MICROBIOLOGY	3	
BIO 244: ECOLOGY	4	
BIO 230: TAXONOMY of VASC PLANTS <i>or</i> BIO 232: PLANT PHYSIOLOGY	3	
BIO 320: PHYSIOLOGICAL ECOLOGY of ANIMALS <i>or</i> BIO 324: PLANT ECOLOGY <i>or</i> BIO 326: MARINE ECOLOGY <i>or</i> BIO 332: AQUATIC ECOLOGY	3	
BIO 302: ENTOMOLOGY <i>or</i> BIO 316: INVERTEBRATE BIOLOGY	3	
BIO OR ENV 3XX ²	3	
TOTAL CREDITS	31	

NOTES:

1. PSY 11 IS A PREREQUISITE FOR PSY 200.
 2. BIO OR ENV 3XX RESEARCH IN BIOLOGY OR ENVIRONMENTAL SCIENCE OR INTERNSHIP IN BIOLOGY MAY BE USED FOR THREE CREDITS ONLY.
 3. CHOICE OF COURSES MADE WITH ADVISOR FROM A LIST MAINTAINED BY ENVIRONMENTAL SCIENCE COMMITTEE.
- ▲ INDICATES COURSE REQUIRED FOR THE MAJOR, BUT MAY BE USED TO SATISFY REQUIREMENTS OF GENERAL EDUCATION. THESE UNITS ARE ONLY COUNTED UNDER GENERAL EDUCATION.

Check Sheet Last Revised: 1/16/2019

CONCOMITANT COURSES

COURSE	CR	GRADE
Chemistry		
CHM 100: GENERAL CHEMISTRY I (4 cr) (GE C2)	▲	
CHM 102: GENERAL CHEMISTRY II	4	
CHM 214: ORGANIC CHEMISTRY I <i>or</i> CHM 204: FUNDAMENTALS of ORGANIC CHEMISTRY	4	
Geography		
GEG 010: ELEMENTS of PHYSICAL GEOGRAPHY(3 cr) (GE C1)	▲	
GEG 274: INTRODUCTION to GIS	3	
Geology		
GEL 100: PHYSICAL GEOLOGY	4	
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	
MAT 140: APPLIED STATISTICS <i>or</i> MAT 150: INTRO to BIostatISTICS <i>or</i> PSY 200: STATS for SOCIAL & BEHAV. SCI. ¹	3	
Physics		
PHY 040: GENERAL PHYSICS I (4 cr) <i>and</i> (GE C3)	▲	
PHY 042: GENERAL PHYSICS II	4	
<i>or</i> PHY 100: PHYSICS I <i>and</i> PHY 102: PHYSICS II		
Restricted Electives³		
(3 cr)	▲	
(3 cr)	▲	
TOTAL CREDITS	25-26	

FREE ELECTIVES

COURSE	CR	GRADE
TOTAL CREDITS	0-6	

GRADUATION REQUIREMENTS

	REQUIRED	✓	REQUIRED	✓	
	GENERAL EDUCATION CREDITS	42-45		COMPREHENSIVE EXAM	PASS
	PROGRAM CREDITS (MINIMUM)	70		MINIMUM QPA OVERALL	2.0
	FREE ELECTIVES	0-6		MINIMUM QPA IN MAJOR	2.0
	TOTAL CREDITS	120			

NAME	
EFFECTIVE DATE FALL 2018 GENERAL EDUCATION 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.
- 8 explore concepts, ideas, and methods from a variety of disciplines.

Use this checklist to plan your degree program. Meet every semester with your academic advisor to be sure that you are taking courses that are required to attain 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	
THESE COURSES MEET SLO 5 & 7		CREDITS EARNED:	
COURSE NUMBER	COURSE NAME	GR	CR
FYS 100	First Year Seminar		
TRANSFER STUDENTS TRANSFERRING 30 CREDITS OR MORE AND NOT TRANSFERRING AN FYS OR FYE COURSE MAY SELECT ANY APPROVED GENERAL EDUCATION COURSE 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	GR	CR
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	GR	CR
1			
2			
3			

C	Understanding Science & Technology	CREDITS REQUIRED 9-12	
	THESE COURSES MEET SLO 2 & 3	CREDITS EARNED:	
COURSE NUMBER	COURSE NAME	GR	CR
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	GR	CR
1			
2			
3			

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 010
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	CHM 100 - Gen Chem I (C2)	4
GEG 010 - Elem Phys Geography (C1)	3	MAT 140 - Appl Statistics	3
MAT 106 - Trigonometry*	3	Gen Ed (A1 - CMP 1XX)	3
		FYS - First Year Seminar	3
Total	13	Total	17

*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 102 - Gen Chem II	4	ENV 220 - Env Analysis	3
GEG 274 - Intro to GIS	3	BIO 232 - Plant Phys ¹	3
GEL100 - Physical Geology	4	Gen Ed (A3 - COM 010)	3
		Restricted Elective (Gen Ed B1)	3
Total	15	Total	15

¹Instead of BIO 232 (Plant Physiology), BIO 230 (Taxonomy of Vascular Plants) can be taken fall of odd numbered years, and in example schedule a General Ed course can replace BIO 232 in spring semester of sophomore year.

Junior Year

Fall Semester	Cr	Spring Semester	Cr
CHM 214 - Organic Chem I	4	BIO OR ENV 3XX Elective	3
ENV 224 - App Env Microbiology	3	ENV 210 – Env Geology	3
BIO 244 - Ecology	4	Restricted Elective (Gen Ed D1)	3
Gen Ed (A2 - CMP2XX)	3	Gen Ed (A4)	3
Gen Ed (B2)	3	Gen Ed (B3)	3
Total	17	Total	15

Senior Year

Fall Semester	Cr	Spring Semester	Cr
BIO 320 or 324 or 326 or 332	3	ENV 380 – Senior Seminar	2
BIO 302 or 316	3	PHY 042 or 102	4
PHY 040 or 100 (C3)	4	Gen Ed (D3)	3
Gen Ed (D2)	3	Free Elective	3
		Free Elective	3
Total	13	Total	15