

<b>PROGRAM CODE</b> ULASBIOOE	<b>COLLEGE OF LIBERAL ARTS AND SCIENCES</b>	
<b>EFFECTIVE DATE</b> FALL 2018	<b>BIOLOGY</b>	
<b>VERSION NUMBER</b> 2188	<i>BACHELOR OF SCIENCE</i>	
<b>ORGANISMAL BIOLOGY / ECOLOGY</b>		
<b>STUDENT:</b>	<b>STUDENT ID NUMBER:</b>	

MAJOR PROGRAM- at least 5 courses must be 300 or 400 level

<b>Required Biology</b>		
COURSE	CR	GRADE
BIO 104 PRINCIPLES OF BIOLOGY (must earn a C or better)	4	
BIO 106 INTRODUCTION TO ZOOLOGY	4	
BIO 108 INTRODUCTION TO BOTANY	4	
BIO 216 GENETICS	3	
BIO 224 APPLIED ENVIRONMENTAL MICROBIOLOGY	3	
BIO 270 RESEARCH METHODS	3	
BIO 380 SENIOR SEMINAR	2	
<b>TOTAL CREDITS</b>	<b>23</b>	

<b>ORGANISMAL/ECOLOGY TRACK</b>		
COURSE	CR	GRADE
BIO 244 ECOLOGY	4	
BIO 122 ANATOMY & PHYS. II <b>OR</b> BIO 232 PLANT PHYSIOLOGY <b>OR</b> BIO 235 GENERAL PHYSIOLOGY <b>OR</b> BIO 320 PHYS. ECOLOGY ANIMALS	3/4	
BIO 218 VERTEBRATE BIOLOGY <b>OR</b> BIO 302 ENTOMOLOGY <b>OR</b> BIO 308 ORNITHOLOGY <b>OR</b> BIO 316 INVERTEBRATE BIOLOGY	3	
BIO 230 TAXONOMY VASCULAR PLANTS <b>OR</b> BIO 232 PLANT PHYSIOLOGY <b>OR</b> BIO 324 PLANT ECOLOGY	3	
<b>TOTAL CREDITS</b>	<b>13/14</b>	

<b>Program Electives</b>		
COURSE	CR	GRADE
<b>SELECT THREE COURSES:</b> BIO 218 VERTEBRATE BIOLOGY BIO 222 ENVIRONMENTAL BIOLOGY BIO 226 MARINE BIOLOGY BIO 230 TAXONOMY VASCULAR PLANTS BIO 232 PLANT PHYSIOLOGY BIO 235 GENERAL PHYSIOLOGY / BIO 302 ENTOMOLOGY BIO 308 ORNITHOLOGY / BIO 314 ANIMAL BEHAVIOR BIO 316 INVERT BIOLOGY BIO 320 PHYSIOLOGICAL ECOLOGY ANIMALS BIO 322 POP. & COMMUNITY ECOLOGY BIO 324 PLANT ECOLOGY / BIO 326 MARINE ECOLOGY BIO 332 AQUATIC ECOLOGY BIO 334 MEDICAL PARASITOLOGY / BIO 342 HERPETOLOGY BIO 346 MOLECULAR BIOLOGY / BIO 350 CELL BIOLOGY BIO 358 CONSERVATION BIOLOGY BIO 370 RESEARCH <b>OR</b> BIO 390 INTERNSHIP	9/10	
<b>BIOLOGY FIELD ELECTIVE:</b> BIO, MAR, OR ENV 200-400 LEVEL ELECTIVE	3	
<b>TOTAL CREDITS</b>	<b>12/13</b>	

CONCOMITANT COURSES

<b>Required Chemistry</b>		
COURSE	CR	GRADE
CHM 100 GENERAL CHEMISTRY I	4 ♦	
CHM 102 GENERAL CHEMISTRY II	4	
CHM 214 ORGANIC CHEMISTRY I	4	
CHM 216 ORGANIC CHEMISTRY II	4	
<b>TOTAL CREDITS</b>	<b>16</b>	


<b>Required Physics</b>		
COURSE	CR	GRADE
PHY 40: GENERAL PHYSICS I <b>AND</b>	4 ♦	
PHY 42: GENERAL PHYSICS II <b>OR</b>	4	
PHY 100: PHYSICS I <b>AND</b>	4 ♦	
PHY 102: PHYSICS II	4	
<b>TOTAL CREDITS</b>	<b>8</b>	

<b>Mathematics</b>		
COURSE	CR	GRADE
<b>SELECT ONE COURSE:</b> MAT 106 TRIGONOMETRY MAT 115 PRECALCULUS MAT 181 CALCULUS I	3/4 ♦	
<b>SELECT ONE COURSE:</b> MAT 140 APPLIED STATISTICS PSY/SOC 200 STATISTICS (PSY 11 OR SOC 10 ARE PREREQ.) MAT 150 BIOSTATISTICS MAT181 CALCULUS I MAT 181 CALCULUS II	3/4 ♦	
<b>TOTAL CREDITS</b>	<b>6/8</b>	

<b>Unrestricted Electives</b>		
COURSE	CR	GRADE
<b>TOTAL CREDITS</b>	<b>5/9</b>	

NO SINGLE COURSE CAN COUNT TOWARD MORE THAN ONE CATEGORY

UP TO THREE (3) CONCOMITANT COURSES MARKED WITH ♦ CAN BE COUNTED TO FULFILL GEN ED GOAL: UNDERSTANDING SCIENCE AND TECHNOLOGY

<b>GRADUATION REQUIREMENTS</b>					
	REQUIRED	✓		REQUIRED	✓
	GENERAL EDUCATION CREDITS	42-45		COMPREHENSIVE EXAM	PASS
	PROGRAM CREDITS (MINIMUM)	78-81		MINIMUM QPA OVERALL	2.0
	TOTAL CREDITS	120		MINIMUM QPA IN MAJOR	2.0
				MAJOR PROGRAM COURSES 300 OR 400 LEVEL	5

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.*

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**TOTAL GENERAL EDUCATION CREDITS 42-45**

FIND A FULL EXPLANATION OF THE GENERAL EDUCATION PROGRAM AT [WWW.KUTZTOWN.EDU](http://WWW.KUTZTOWN.EDU)

<b>First Year Seminar: Discovering College</b>		<i>CREDITS REQUIRED</i> <b>3</b>	
THESE COURSES MEET SLO 5 & 7		<i>CREDITS EARNED:</i>	
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	<b>Communicating With And About the World</b>		<i>CREDITS REQUIRED</i> <b>12</b>	
	THESE COURSES MEET SLO 1 & 5		<i>CREDITS EARNED:</i>	
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	<b>Understanding Self &amp; Others</b>		<i>CREDITS REQUIRED</i> <b>9</b>	
	THESE COURSES MEET SLO 3 & 6		<i>CREDITS EARNED:</i>	
COURSE NUMBER	COURSE NAME	GR	CR	
1				
2				
3				

C	<b>Understanding Science &amp; Technology</b>		<i>CREDITS REQUIRED</i> <b>9-12</b>	
	THESE COURSES MEET SLO 2 & 3		<i>CREDITS EARNED:</i>	
COURSE NUMBER	COURSE NAME	GR	CR	
1	SCIENTIFIC INQUIRY			
2	QUANTITATIVE REASONING			
3	ANY COURSE APPROVED FOR C1 OR C2			

D	<b>Understanding &amp; Creating Ideas</b>		<i>CREDITS REQUIRED</i> <b>9</b>	
	THESE COURSES MEET SLO 4 & 6		<i>CREDITS EARNED:</i>	
COURSE NUMBER	COURSE NAME	GR	CR	
1				
2				
3				

# B.S. Biology/Organismal/Ecology

## Suggested 4-Year Schedule

11/2018

### Freshman Year

Fall Semester	Cr
CHM 100 – General Chemistry I	4
BIO 104 – Principles of Biology	4
First Year Seminar (FYS)	3
Gen Ed Course (A1 CMP 1XX)	3
Total	14

Spring Semester	Cr
CHM 102 – General Chemistry II	4
BIO 106 – Intro to Zoology	4
Gen Ed Course (A3)	3
Required Math <sup>1,2</sup> (C2)	3/4
Total	14/15

### Sophomore Year

Fall Semester	Cr
CHM 214VL Org Chem I	4
BIO 108 – Intro to Botany	4
BIO 224 – Applied Env. Microbiology	3
Gen Ed Course (A2 CMP 2XX)	3
Gen Ed Course (B1)	3
Total	17

Spring Semester	Cr
CHM 216WI Org Chem II	4
BIO 270CT WI – Research Methods	3
BIO Plant or Animal Course or BIO Elective <sup>3</sup>	3
Required Math <sup>1,2</sup>	3/4
Gen Ed Course (D1)	3
Total	16/17

### Junior Year

Fall Semester	Cr
PHY 40 or 100	4
BIO 244 Ecology	4
BIO Plant or Animal Course or BIO Elective <sup>3</sup>	3
Gen Ed Course (B2)	3
Gen Ed Course (D2)	3
Total	17

Spring Semester	Cr
PHY 42 or 102	4
BIO 216QL Genetics	3
BIO Physiology Course or BIO Elective <sup>4</sup>	3
Gen Ed Course (A4)	3
Gen Ed Course (B3)	3
Total	16

### Senior Year

Fall Semester	Cr
BIO Plant or Animal Course or BIO Elective <sup>3</sup>	3
BIO Plant or Animal Course or BIO Elective <sup>3</sup>	3
BIO Physiology Course or BIO Elective <sup>4</sup>	3
Gen Ed Course (D3)	3
Free Elective	3
Total	15

Spring Semester	Cr
BIO 380 - Senior Seminar in Biology	2
BIO Plant or Animal Course or BIO Elective <sup>3</sup>	3
BIO Plant or Animal Course or BIO Elective <sup>3</sup>	3
Free Elective	3
Free Elective	3
Total	14

<sup>1</sup> See required courses on track sheet. Note: **MAT 105** is a prerequisite for **MAT 106, MAT 140, and MAT 150**; **MAT 181** is 4 credits.

<sup>2</sup> Prerequisites of MAT 017 or higher **and** PSY 11 Intro to Psychology are required for PSY 200 (Statistics for the Social and Behavioral Sciences).

<sup>3</sup> One animal course (**BIO 218, 302, 308, or 324**), one plant course (**BIO 230, 232, or 324**), and four BIO electives are required.

<sup>4</sup> One physiology course (**BIO 122, 232, 235, 300, or 320**) and one General Elective are required.

**Note:** No single course can count toward more than one category. At least five BIO courses must be at 300-400 level and must have a 300 level ecology course.