

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.

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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>	CREDITS REQUIRED	<b>3</b>
THIS COURSE MEETS SLO <b>5</b> & <b>7</b>	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:

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

COURSE NUMBER	COURSE NAME	CR	GR
<b>1</b>	COMPOSITION 100 LEVEL CMP 1__		
<b>2</b>	COMPOSITION 200 LEVEL CMP 2__		
<b>3</b>	SPEAKING		
<b>4</b>	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</b>	<b>Understanding Self &amp; Others</b>	CREDITS REQUIRED	<b>9</b>
	THESE COURSES MEET SLO <b>3</b> & <b>6</b>	CREDITS EARNED:	

COURSE NUMBER	COURSE NAME	CR	GR
<b>1</b>			
<b>2</b>			
<b>3</b>			

<b>C</b>	<b>Understanding Science &amp; Technology</b>	CREDITS REQUIRED	<b>9-12</b>
	THESE COURSES MEET SLO <b>2</b> & <b>3</b>	CREDITS EARNED:	

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

<b>D</b>	<b>Understanding &amp; Creating Ideas</b>	CREDITS REQUIRED	<b>9</b>
	THESE COURSES MEET SLO <b>4</b> & <b>6</b>	CREDITS EARNED:	

COURSE NUMBER	COURSE NAME	CR	GR
<b>1</b>			
<b>2</b>			
<b>3</b>			

<b>PROGRAM CODE</b> ULASBIOMH	<b>COLLEGE OF LIBERAL ARTS AND SCIENCES</b>
<b>EFFECTIVE DATE</b> SPRING 2020	
<b>VERSION NUMBER</b> 2202	
<b>BIOLOGY</b>	
<i>BACHELOR OF SCIENCE</i>	
<b>PRE-MEDICAL &amp; OTHER HEALTH CAREERS</b>	
<b>STUDENT:</b>	<b>STUDENT ID NUMBER:</b>

MAJOR PROGRAM- at least 4 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>PRE-MEDICAL TRACK</b>		
COURSE	CR	GRADE
BIO 264 COMPARATIVE ANATOMY	4	
BIO 346 MOLECULAR BIOLOGY <b>OR</b> BIO 350 CELL BIOLOGY	3	
BIO 122 ANATOMY & PHYSIOLOGY II <b>OR</b> BIO 235 GENERAL PHYSIOLOGY (4 cr.)	3/4	
<b>TOTAL CREDITS</b>	<b>10/11</b>	

<b>Program Electives</b>		
COURSE	CR	GRADE
<b>SELECT FOUR COURSES:</b>	12/14	
BIO 252 CELL PHYS & METAB. <b>OR</b> CHM 312 BIOCHEM II (4 cr.)		
BIO 306 FOOD MICROBIOLOGY		
BIO 330 HISTOLOGY		
BIO 334 MEDICAL PARASITOLOGY		
BIO 336 MEDICAL MICROBIOLOGY		
BIO 354 DEVELOPMENTAL BIOLOGY		
BIO 356 IMMUNOLOGY		
BIO 370 RESEARCH (3 cr.) <b>OR</b> BIO 390 INTERNSHIP (3 cr.)		
CHM 310 BIOCHEM I (4 cr.)		
BIO 460 CANCER BIOLOGY	3/4	
<b>BIOLOGY FIELD ELECTIVE - SELECT ONE COURSE:</b>		
BIO 218 VERTEBRATE BIOLOGY		
BIO/ENV222 ENVIRONMENTAL BIOLOGY		
BIO/MAR 226 MARINE BIOLOGY		
BIO 230 TAXONOMY OF VASCULAR PLANTS		
BIO 244 ECOLOGY (4 cr.) / BIO 302 ENTOMOLOGY		
BIO 308 ORNITHOLOGY / BIO 314 ANIMAL BEHAVIOR		
BIO 322 POPULATION AND COMMUNITY ECOLOGY		
BIO 324 PLANT ECOLOGY / BIO 342 HERPETOLOGY		
BIO 332 AQUATIC ECOLOGY		
BIO 358 CONSERVATION BIOLOGY		
BIOLOGY COURSES OFFERED AT CHINCOTEAGUE FIELD STATION (200 LEVEL OR ABOVE)		
<b>TOTAL CREDITS</b>	<b>15/18</b>	

CONCOMITANT COURSES

<b>Required Chemistry</b>		
COURSE	CR	GRADE
CHM 100 GENERAL CHEMISTRY I	♦	
CHM 102 GENERAL CHEMISTRY II	4	
CHM 214 ORGANIC CHEMISTRY I	4	
CHM 216 ORGANIC CHEMISTRY II	4	
<b>TOTAL CREDITS</b>	<b>12</b>	

<b>Required Physics</b>		
COURSE	CR	GRADE
PHY 40 GENERAL PHYSICS I <b>OR</b> PHY 100 PHYSICS I	♦	
<b>TOTAL CREDITS</b>	<b>0</b>	

<b>Mathematics</b>		
COURSE	CR	GRADE
<b>SELECT ONE COURSE:</b>	♦	
MAT 106 TRIGONOMETRY		
MAT 115 PRECALCULUS		
MAT 181 CALCULUS I (4 cr.)		
<b>TOTAL CREDITS</b>	<b>0</b>	

<b>Elective Courses</b> <small>ELECTIVE COURSES MAY BE SELECTED FROM ANY DEPARTMENT OR PROGRAM (INCLUDING BIO)</small>		
COURSE	CR	GRADE
<b>TOTAL ELECTIVE CREDITS</b>	<b>11/16</b>	

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

NO SINGLE COURSE CAN COUNT TOWARD MORE THAN ONE CATEGORY

GRADUATION REQUIREMENTS



	REQUIRED	✓		REQUIRED	✓
GENERAL EDUCATION CREDITS	<b>44</b>		COMPREHENSIVE EXAM	<b>PASS</b>	
PROGRAM CREDITS (MINIMUM)	<b>60</b>		MINIMUM QPA OVERALL	<b>2.0</b>	
ELECTIVES COURSES	<b>16</b>		MINIMUM QPA IN MAJOR	<b>2.0</b>	
TOTAL CREDITS (120 MIN NEEDED TO GRADUATE)	<b>120</b>		MAJOR PROGRAM COURSES 300 OR 400 LEVEL	<b>4</b>	

# B.S. Biology/Pre-Medical & Other Health Careers 4-Year Schedule (2/2020)

Program Code: ULASBIOMH

Version: 2202

BS Biology/Pre-Medical & Other Health Careers First Semester Suggested Advising for Connections
BIO 104 – Principles of Biology
CHM 100 – General Chemistry I (C2)
First Year Seminar (FYS)
MAT 105, 106, 115 or 181 <sup>1,2</sup> depending on ALEKS placement score (C3)

## Freshman Year

Fall Semester	Cr	Spring Semester	Cr
BIO 104 – Principles of Biology	4	BIO 106 – Intro to Zoology	4
CHM 100 – General Chemistry I (C1)	4	CHM 102 – General Chemistry II	4
First Year Seminar (FYS)	3	Gen Ed – (PSY 11 recommended) (B1)	3
Required Math <sup>1</sup> (C2)	3	Gen Ed – (MAT 181 recommended) (Unrestricted Elective) <sup>1,2</sup>	3/4
Total	14	Total	14/15

## Sophomore Year

Fall Semester	Cr	Spring Semester	Cr
PHY 40 or 100 (C3)	4	Elective Course – (PHY 42 or 100 recommended) (Unrestricted Elective) <sup>2</sup>	3/4
CHM 214 Organic Chem I	4	CHM 216 – Organic Chem II	4
BIO 224 – Applied Env. Microbiology	3	BIO 216 – Genetics	3
BIO 270 – Research Methods	3	Elective Course – (Statistics class recommended) (Unrestricted Elective) <sup>2,3</sup>	3
Gen Ed – (SOC 10 recommended) (B2)	3	Gen Ed – CMP 100 (A1)	3
Total	17	Total	16/17

## Junior Year

Fall Semester	Cr	Spring Semester	Cr
Gen Ed – (PSY 125 recommended) (B3)	3	Elective Course – CMP 200 (A2)	3
BIO 346 – Molecular Biology or BIO Elective <sup>4</sup>	3	BIO 235 – General Physiology	3
BIO 264 – Comparative Anatomy	4	BIO Elective <sup>4</sup> or BIO 350 – Cell Biology	3
BIO Elective (CHM 310 recommended)	3/4	Gen Ed (D2)	3
Gen Ed Course (D1)	3		
Total	16/17	Total	12

## Senior Year

Fall Semester	Cr	Spring Semester	Cr
Gen Ed (A3)	3	BIO 380 – Senior Seminar in Biology	2
Gen Ed (A4)	3	BIO Field Elective <sup>4</sup>	3
BIO 108 – Intro to Botany	4	Gen Ed (D3)	3
BIO Elective <sup>4</sup>	3	BIO Elective	3
Elective Course (Unrestricted Elective) <sup>2</sup>	3	Elective Course (Unrestricted Elective) <sup>2</sup>	3
Total	16	Total	14

<sup>1</sup> See required courses on track sheet. Note: **MAT 105 or ALEKS** Math placement score greater than 60 is a prerequisite for MAT 106 or MAT 115. ALEKS Math Placement score greater than 75 is needed for MAT 181 (Calculus; 4 credits). Calculus is required for many medical schools, and a statistics class (which would include PSY/SOC 200, MAT 140, or MAT 150) is also important.

<sup>2</sup> Elective Courses (Unrestricted Electives) should be chosen in consultation with the student's academic advisor.

<sup>3</sup> CHM 310 (Biochemistry) and either PHY 42 or 102 (Physics II) are required for most medical schools and to perform well on the MCAT.

<sup>4</sup> See Biology electives on track sheet.

Student must complete all credits required in the major along with a total of 120 credits in order to graduate.

Note: No single course can count toward more than one category. At least four BIO courses must be at 300-400 level.

12/2019