| NAME | EFFECTIVEDATE <br> AUGUST 27, 2018 |
| :--- | :---: |
| ID NUMBER | VERSION |
| 2188 |  |

D E GREE 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.


| Understanding |
| :--- |
| Science \& Technology |
| THESE CoURSES MEET SLO $2<3$ |



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.S. Biology/Molecular/Micro/Cell Biology <br> 4-Year Schedule (2-2020) 

Version: 2202

| BS Biology/Molecular/Micro/Cell Biology |
| :--- |
| BIO 104 - Principles of Biology |
| CHM 100 - General Chemistry I (C2) |
| First Year Seminar (FYS) |
| MAT $105,106,115$, or $181^{1,2}$ 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 (C2) | 4 | CHM 102 - General Chemistry II | 4 |
| First Year Seminar (FYS) | 3 | Gen Ed Course - (B1) | 3 |
| *Required Math ${ }^{1,2}$ (C3) | 3 | Gen Ed Course - CMP 100 (A1) | 3 |
| Total | 14 | 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 | BIO 270 - Research Methods | 3 |
| CHM 214 Organic Chem I | 4 | CHM 216 - Organic Chem II | 4 |
| BIO 224 - Applied Env. Microbiology | 3 | BIO 216 - Genetics | 3 |
| Gen Ed Course - COM 10 (A3) | 3 | Gen Ed Course (B2) | 3 |
| Elective Course ${ }^{1,2}$ | 3 | Elective Course (MAT 140 recommended) ${ }^{1,2}$ | 3 |
| Total | 17 | Total | 16 |

## Junior Year

| Fall Semester | Cr | Spring Semester | Cr |
| :--- | :---: | :--- | :---: |
| PHY 40 or 100 (C1) | 4 | Bio 350 Cell Biology | 3 |
| BIO 346 Molecular Biology | 3 | BIO Elective $^{3}$ | 3 |
| BIO Elective $^{3}$ | 3 | Elective Course (PHY 42 or 102 recommended) $^{2}$ | $3 / 4$ |
| Gen Ed Course - CMP 2XX (A2) | 3 | Gen Ed Course (A4) | 3 |
| Gen Ed Course (C1) | 3 | Gen Ed Course (D1) | 3 |
| Total | 16 | Total | $15 / 16$ |

## Senior Year

| Fall Semester | $\mathbf{C r}$ | Spring Semester | $\mathbf{C r}$ |
| :--- | :---: | :--- | :---: |
| CHM 310 Biochemistry I $^{\text {BIO Elective }}{ }^{3}$ | 4 | BIO 252 Cell Phys or CHM 312 Biochem II | $3 / 4$ |
| Elective Course $^{1,2}$ | 3 | BIO 380 - Senior Seminar in Biology | 2 |
| Gen Ed Course (B3) | 3 | BIO Field Elective $^{3}$ | 3 |
| Gen Ed Course (D2) | 3 | Elective Course $^{1,2}$ | 3 |
| Total | 3 | Gen Ed Course (D3) | 3 |

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[^0]:    ${ }^{1}$ See required courses on track sheet. Note: MAT $\mathbf{1 0 5}$ or Math placement score greater than $\mathbf{6 0}$ is a prerequisite for MAT 106, MAT 140, and MAT 150.
    ${ }^{2}$ Elective Courses should be chosen in consultation with the student's academic advisor.
    ${ }^{3}$ See Biology electives on track sheet.
    Students must complete all credits required in the major along with a total of 120 credits are needed 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

