EDINBORO UNIVERSITY OF PENNSYLVANIA  
CURRICULUM REQUIREMENTS  
Bachelor of Science  
Major: Chemistry – Industrial Biochemistry (0445)  

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<th>Student:</th>
<th>ID: @</th>
<th>Term:</th>
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### I. GENERAL EDUCATION (50 SH)

#### A. Skills  
- ENGL101 College Writing Skills  
  - 3  
- ENGL102 Writ/Research  
  - 3  
- MATH211 Anal. Geo. & Calculus I  
  - 4  
- CHEM241 Prin. of Chemistry II*  
  - 4  
*Fulfills required computer competency course.  

#### B. Core  
- **Artistic Expression**  
  - 3  
- **World Civilizations**  
  - 3  
- **American Civilizations**  
  - 3  
- **Human Behavior**  
  - 3  
- **Cultural Diversity & Social Pluralism**  
  - 3  
- **Ethics**  
  - 3  
- **Natural Science**  
  - 4  
  - BIOL103 Principles of Biology  
    - 4  

### II. SPECIALIZATION IN CHEMISTRY*** (37 SH)

- CHEM240 Principles of Chemistry I  
  - 4  
- CHEM241 Principles of Chemistry II**  
  - **  
- CHEM280 Laboratory Safety  
  - 1  
- CHEM310 Quantitative Analysis  
  - 4  
- CHEM330 Organic Chemistry I  
  - 4  
- CHEM331 Organic Chemistry II  
  - 4  
- CHEM341 Biochemistry  
  - 4  
- CHEM450 Instrumental Analysis  
  - 5  
- CHEM530 Physical Chemistry I  
  - 4  
- CHEM531 Physical Chemistry II  
  - 4  
- CHEM541 Advanced Biochemistry  
  - 3  

** Credits are recorded in the General Education section.  
***Students enrolled in the Bachelor of Science program must attain a minimum cumulative quality point average of 2.00 in Chemistry courses to be eligible for graduation.  
A minimum grade of "C" is required in CHEM240, CHEM241, CHEM310, CHEM 330, CHEM331, CHEM341, and CHEM530.

### III. REQUIRED SUPPORT COURSES (28 SH)

- BIOL103 Principles of Biology  
  - **  
- BIOL300 Genetics  
  - 4  
- BIOL305 Cell and Molecular Biology  
  - 4  
- BIOL308 Microbiology  
  - 4  
  - OR  
- BIOL310 Human Anat./Phys.  
  - 4  
- BIOL409 Molecular Biology  
  - 4  
- CSCI130 Principles of Programming I  
  - 3  
- MATH211 Anal. Geometry & Calculus I**  
  - **  
- MATH212 Anal. Geometry & Calculus II  
  - 4  
- MATH260 Elements of Statistics  
  - 3  
- PHYS320 University Physics I**  
  - **  
- PHYS321 University Physics II**  
  - **  
- PHYS322 Physical Measurements I  
  - 1  
- PHYS323 Physical Measurements II  
  - 1  

** Credits are recorded in the General Education section.

### IV. FREE ELECTIVES (5 SH)

<table>
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<th>Course</th>
<th>SH</th>
<th>Grade</th>
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#Note: At least 42 semester hours must consist of advanced coursework.

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(Revised: March 2006; Approved: June 2006)  
(Effective: Fall 2006; Printed June 2012)