

# Secondary Education

## BSED Secondary Chemistry Education

This degree map is based on the 2023-24 Academic Catalog and is subject to change. Students should meet with their academic advisor each semester and use Degree Works to monitor their individual progress toward degree completion. The time it takes to earn a degree will vary based on several factors including summer/winter enrollment, dual enrollment and number of courses successfully completed each semester. We recommend taking a minimum of 15 credits each fall and spring semester.

### Sample 4-Year Plan

#### First Year

| Fall Courses                                  | Credits | Spring Courses  | Credits |
|---|---------|---|---------|
| FYS100 First Year Seminar (Foundations)       | 3       | SPE110 Intro to Indiv w/ Exceptionalities (Citizenship) | 3       |
| MSED110 Intro to Middle & Secondary Education | 3       | CHEM122 General Chemistry 2                             | 4       |
| CHEM121 General Chemistry 1 (Natural World)   | 4       | MATH170 Calculus 2                                      | 4       |
| MATH160 Calculus 1                            | 4       | PHYS211 General Physics 1 (Natural World)               | 4       |
| WRIT103 Composition (Writing)                 | 3       |   |         |
| Semester Total                                | 17      | Semester Total  | 15      |

#### Second Year

| Fall Courses  | Credits | Spring Courses  | Credits |
|---|---------|---|---------|
| ELL320 Cultural Awareness and Sensitivity GE (Diversity)        | 3       | EDUC222 Principles & Structures in PK12 Education         | 3       |
| SPEC220 Data Driven Interventions for Indiv w/ Exceptionalities | 3       | EDTC200 Technology for Teaching & Learning (Technologies) | 3       |
| CHEM281 Organic Chemistry 1                                     | 4       | CHEM282 Organic Chemistry 2                               | 4       |
| PHYS212 General Physics 2                                       | 4       | Gen Ed (Oral Communication)                               | 3       |
| Gen Ed (History)  | 3       | ENGLxxx (Literature)                                      | 3       |
| Semester Total  | 17      | Semester Total  | 16      |

#### Third Year

| Fall Courses   | Credits | Spring Courses  | Credits |
|--|---------|---|---------|
| SPEC330 Methods of Instruction for Indiv w/ Exceptionalities | 3       | EDUC358 Assessment & Differentiation for Inclusive Classrooms | 3       |
| EDUC334 Connecting Research and Classroom Practice           | 3       | EDUC346 Teaching in Diverse Contexts (Diversity)              | 3       |
| CHEM371 Physical Chemistry 1                                 | 4       | CHEM351 Biochemistry  | 4       |
| CHEM341 Analytical Chemistry (Quantitative)                  | 4       | CHEM261 Inorganic Chemistry                                   | 4       |
| Semester Total   | 14      | Semester Total  | 17      |

#### Fourth Year

| Fall Courses   | Credits | Spring Courses             | Credits |
|--|---------|----------------------------|---------|
| MSED453 Teaching Science in Secondary Schools                | 3       | MSED491 Student Teaching 1 | 6       |
| EDUC474 Classroom Management and Effective Discipline        | 3       | MSED492 Student Teaching 2 | 6       |
| EGGS105 Environmental Issues & Choices (Global Perspectives) | 3       |                            |         |
| Semester Total   | 12      | Semester Total             | 12      |

#### Winter/Summer College - Optional

While not required, Winter and Summer sessions are offered each year and may help you stay on track or get ahead. You may take up to seven (7) credits during Winter College and up to 14 credits during Summer College.

## Curriculum Checklist

### Required Education Courses (36 credits)

- \_\_\_ EDUC222 Principles & Structures of PK12 Education
- \_\_\_ EDUC334 Connecting Research and Classroom Practice
- \_\_\_ EDUC358 Assessment and Differentiation for Inclusive Classroom
- \_\_\_ EDUC474 Classroom Management and Effective Discipline
- \_\_\_ MSED110 Intro to Middle and Secondary Education
- \_\_\_ MSED453 Teaching Science in Secondary Schools
- \_\_\_ MSED491 Student Teaching 1
- \_\_\_ MSED492 Student Teaching 2
- \_\_\_ SPEC220 Data Driven Interventions for Indiv with Exceptionalities
- \_\_\_ SPEC330 Methods of Instruction for Indiv with Exceptionalities

### Required Content Area Courses (28 credits)

- \_\_\_ CHEM122 General Chemistry 2
- \_\_\_ CHEM281 Organic Chemistry 1
- \_\_\_ CHEM282 Organic Chemistry 2
- \_\_\_ CHEM371 Physical Chemistry
- \_\_\_ CHEM261 Inorganic Chemistry
- \_\_\_ CHEM351 Biochemistry 1
- \_\_\_ PHYS212 General Physics 2

## General Education Requirements

### (45 credits)

*Note: Some requirements may be fulfilled by coursework in your major program including directed Gen Ed courses noted below*

- Foundations (15 credits)
  - FYS100 First Year Seminar
  - STAT141 Intro to Statistics (Quantitative)
  - WRIT103 Composition (Writing)
  - History
  - Oral Communication
- Interconnections (9 credits)
  - EDUC346 Teaching in Diverse Contexts (Diversity)
  - ELL320 Cultural Awareness and Sensitivity (Diversity)
  - EGGS105 Environmental Issues and Choices (Global Perspectives)
- Citizenship & Responsibility (6 credits from at least two goals)
  - SPEC110 Intro to Individuals with Exceptionalities (Citizenship)
  - Critical Reasoning
- Natural World & Technologies (9 credits)
  - EDTC200 Technology for Teaching & Learning (Technology)
  - PHYS211 General Physics 1 (Natural World)
  - CHEM121 General Chemistry 1 (Natural World)
- Creativity & Expression (6 credits)
  - ENGLxxx (Literature)
  - Arts or Creativity

## Degree Requirements

All students must obtain a minimum of 120 credits, complete all General Education requirements, and all requirements for the selected major. Meet with your advisor and consult Degree Works to monitor your progress and for all graduation requirements. There is a PDE GPA minimum requirement for certification (not graduation).

*A minimum GPA of 2.0 in the major and overall are required.*

## Campus Locations

- |                   |  |
|-------------------|--|
| <b>Bloomsburg</b> | <input checked="" type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input checked="" type="checkbox"/> Blended |
| <b>Lock Haven</b> | <input checked="" type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input checked="" type="checkbox"/> Blended |
| <b>Mansfield</b>  | <input checked="" type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input checked="" type="checkbox"/> Blended |
| <b>Clearfield</b> | <input type="checkbox"/> Online; <input type="checkbox"/> In-person; <input type="checkbox"/> Blended                                  |