

## **B.S.ED.: CHEMISTRY**

Effective Summer 2020

As per PRP3604: All students earning a first baccalaureate degree will take at least 30 of their last 45 credits at Bloomsburg University, no more credits are required than the 30 credits. All first baccalaureate students will take at least 50% of credits required for the Major from a PASSHE university. Bloomsburg University may require up to a maximum of 50% of the Major credits. Program exceptions to the policy are to be approved by the Office of the Chancellor.

Students seeking Secondary Education Certification in Chemistry must declare majors in both Chemistry (BA) and Secondary Education (Chemistry) and complete the full Chemistry (BA) course sequence as well as the Secondary Education Professional Course and Certification requirements. Students must consult their advisers in both departments each semester regarding course selection and other certification requirements.

A total of 126 Credits are required for a Bachelor of Science in Education with a specialization in chemistry. Required courses include:

### **Required by Chemistry for Secondary Ed. Major (49 credits)**

CHEM.115 Chemistry for the Sciences 1  
CHEM.116 Chemistry for the Sciences 2  
CHEM.231 Organic Chemistry I  
CHEM.232 Organic Chemistry II  
CHEM.321 Analytical Chemistry I  
CHEM.341 Biochemistry  
CHEM.361 Physical Chemistry I  
CHEM.251 Inorganic Chemistry  
EGGS.105 Environmental Issues & Choices  
EGGS.120 Physical Geology  
MATH.225 Calculus III  
PHYSICS.211 General Physics I  
PHYSICS.212 General Physics II

### **Required by Education (40 credits)**

EDFOUND.204 Educational Technology  
EDFOUND.206 Teachers, Schools & Society  
EDFOUND.291 Principles of Teaching  
EDFOUND.406 Multicultural Education  
EDFOUND.427 Classroom Management & Eff Disc  
EDFOUND.497 Student Teaching: 1st Experience  
EDFOUND.498 Student Teaching: 2nd Experience  
PROFSTUD.301 Teaching, Learning and Assessment  
PROFSTUD.498 Student Teaching Seminar  
\_\_\_\_\_ Practicum  
PSYCH.101 General Psychology  
SECED.453 Teaching Science in Sec School (Fall)

### **Required by PDE (29 credits)**

ENGLISH.101 Foundations of College Writing I  
ENGLISH \_\_\_\_ Literature (151, 152, 156, 226, 227, 236, 237, 246, 247, or 286)  
MATH.125 Calculus I  
MATH.126 Calculus II

PROFSTUD.494 ELL Strategies  
 PSYCH.212 Adolescent Psychology  
 SPECED.101 Introduction to Except Individuals  
 SPECED.275 Linking Assessment  
 SPECED.358 Methods of Instr Stud with Disabilities

Course Number	Course Title	GEPs
<b>***Goal 1: Communication; minimum 7 GEPs, from minimum of 3 disciplines.</b>		
CHEM.341	Biochemistry 1	1
EDFOUND.291	Principles of Teaching	2
ENGLISH.101	Foundations of College Writing I	3
ENGLISH._____	Literature (151, 152, 156, 226, 227, 236, 237, 246, 247, or 286)	1
<b>*Goal 2: Information Literacy; minimum 2 GEPs</b>		
EDFOUND.204	Educational Technology	3
<b>**Goal 3: Analysis, Quantitative Reasoning, &amp; Problem Solving; minimum 5 GEPs, from minimum of 2 disciplines.</b>		
CHEM.115	Chemistry for the Sciences 1	1
MATH.125	Calculus I	2
MATH.126	Calculus II	3
<b>**Goal 4: Cultures &amp; Diversity; minimum 5 GEPs, from minimum of 2 disciplines.</b>		
EDFOUND.291	Principles of Teaching	1
EDFOUND.406	Multicultural Education	2
SPECED.101	Intro to Exceptional Individuals	2
<b>**Goal 5: Natural Sciences; minimum 5 GEPs, from minimum of 2 disciplines; any 3-credit course with 3 GEPs for Goal 5 can replace CHEM.100.</b>		
CHEM.115	Chemistry for Sciences I	3
EGGS.105	Environmental Issues & Choices	1
MATH.125	Calculus I	1
<b>**Goal 6: Social Sciences; minimum 5 GEPs, from minimum of 2 disciplines.</b>		
EDFOUND.206	Teachers, Schools, and Society	1
PSYCH.101	General Psychology	3
SPECED.275	Linking Assessment	1
<b>**Goal 7: Humanities; minimum 5 GEPs, from minimum of 2 disciplines; Select MUSIC 101 or THEATRE 102 or 103 to complete this goal.</b>		
ENGLISH _____	Literature (151, 152, 156, 226, 227, 236, 237, 246, 247, or 286)	2
MUSIC.101/105 or THEATRE.102/103	Music Listening, Music Literature, Introduction to Theatre or Theatre Appreciation	3
<b>*Goal 8: Second Language Competency; minimum 2 GEPs.</b>		
_____ 102	Any second language 102 level	2
<b>*Goal 9: Physical Activity &amp; Health; minimum 2 GEPs.</b>		
_____	EXERCISE.114, 211 (highly recommended), 226, 230, 241, 250, 270 or DANCE.117 or NURSING.117 or 217 or HONORS.217	2
<b>*Goal 10: Responsible Citizenship; minimum 2 GEPs.</b>		
EDFOUND.406	Multicultural Education	1
SPECED.101	Intro to Exceptional Individuals	1

\*GEPs for this goal may come from just 1 discipline. \*\*GEPs must come from at least 2 disciplines. \*\*\*GEPs must come from at least 3 disciplines.

## Additional Notes on the Secondary Education Major:

**Admission Packet, for Admission into the Teacher Education Program:** due by 48 credits, signed by your Education advisor and submitted to Teacher Education Admission Packets Coordinator.  
McCormick 3103A Forms and Information available Online from [www.bloomu.edu/teaching-learning](http://www.bloomu.edu/teaching-learning)

- Eligible test scores: PRAXIS ([www.ets.org](http://www.ets.org)), PAPA ([www.pa.nesinc.com](http://www.pa.nesinc.com)):**

  - PRAXIS Core Academic Skills for Educators** (Reading score: 156; Writing score: 162; Math score: 142)
  - PAPA – Pre-service Academic Perf. Assessment** (Reading score: 220; Writing score: 220; Math score: 193)
  - SAT (Old):** 500 or higher in Reading, Writing and Math.
  - ACT:** Before 9/2015; Composite Score: 23; English/Writing Score: 22; Math Score: 21  
After 9/2015; Reading Score: 22; Writing Score: 21; Math Score: 21
  - PRAXIS II:** Grades 7-12 field of concentration ([www.ets.org](http://www.ets.org))

- Cumulative GPA of 3.0, with a C or better** in all professional education and specialization courses.
- 6 credits of college-level math** and **6 credits in English composition and literature**
- Completion of early field experience:** five days/40 hours, non-credit, w/appropriate diversity in contexts: forms required
- Two recommendations** from Teacher Education faculty: standardized form required
- Professional liability insurance** (available through PSEA, at [www.PSEA.org](http://www.PSEA.org))
- Tuberculosis Screening** results, from a test taken within the last two years (likely repeated before student teaching).
- A resume** that follows the sample format: format available from Education Studies
- Criminal checks:** Act 34 (Criminal Record Check); Act 151 (Child Abuse History Check); Act 114  
FBI Clearance: register at [www.pa.cogentid.com](http://www.pa.cogentid.com); register under Department of Education; fingerprinting available at BU bookstore. Clearances are valid for 1 year for one year: will need to repeat before student teaching

### **Student Teaching—Placement Card and Eligibility Packet:**

- Student Teaching Placement Card**—intent to student teach:
  - for fall** student teaching, due **by February**
  - for spring** student teaching, due **by September**
- Student Teaching Eligibility Packet:** Download checklist and forms from the Student Teaching tab under Student Resources on the College of Education homepage.
- Student Teaching Eligibility Packet is due:** signed by your Education advisor, to the Student Teaching Placement Office, 3103A McCormick:
  - April 10** for fall student teaching
  - October 1** for spring student teaching