

B.S.ED.: BIOLOGY

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 Biology must declare majors in both Biology (BA) and Secondary Education (Biology) and complete the full Biology (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 127 credits are required to earn a Bachelor of Science in Education degree with specialization in Biology. Required courses include:

Required by Biology for Sec. Ed. Major (52 credits)

BIOLOGY.114 Concepts in Biology I
BIOLOGY.115 Concepts in Biology II
BIOLOGY.242 Microbiology
BIOLOGY.271 Cell Biology
BIOLOGY.332 Genetics
BIOLOGY.333 Molecular Biology
BIOLOGY.351 Ecology
BIOLOGY ____ Physiology Requirement (472, 474, 477, 478, or 480)
BIOLOGY.479 Physiology Lab
CHEM.115 Chemistry for the Sciences 1
CHEM.116 Chemistry for the Sciences 2
CHEM.230 Fundamentals of Organic Chemistry
PHYSICS.111 Introduction to Physics I

Electives (6 credits from Biology)

BIOLOGY ____ One Biology Field Course Required (Select one from BIOLOGY 200, 252, 253, 263, 452, 457, or 459.)

BIOLOGY.430 Evolution (**Strongly Recommended**) or one from the following list (**Partial List of Other Electives Offered (see advisor for others)**)

BIOLOGY.200 Dendrology
BIOLOGY.211 Invertebrate Zoology
BIOLOGY.212 Vertebrate Zoology
BIOLOGY.222 Comparative Biology of Plants
BIOLOGY.233 Human Genetics
BIOLOGY.252 Field Zoology
BIOLOGY.253 Freshwater Biology
BIOLOGY.263 Field Botany
BIOLOGY.331 Embryology

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 Mgt. & Eff. Discipline
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 of Science in Sec

Required by PDE (27 credits)

ENGLISH.101	Foundations of College Writing I
ENGLISH ____	Literature (151, 152, 156, 226, 227, 236, 237, 246, 247, or 286)
MATH.141	Introduction to Statistics
MATH _____	A second college-level math course
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

Meeting General Education Goals:

Credit toward General Education Goals is met with General Education Points (GEPs). Courses can offer a maximum of 4 GEPs. Some courses offer GEPs toward more than one General Education Goal. The range of courses awarding GEPs, and the degree to which major requirements and general education requirements may be satisfied simultaneously, will change as more courses are approved for General Education credit. See www.bloomu.edu/mycore

Course Number	Course Title	GEPs
***Goal 1: Communication; minimum 7 GEPs, from minimum of 3 disciplines.		
BIOLOGY.290	Writing in Biology	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
*Goal 2: Information Literacy; minimum 2 GEPs		
EDFOUND.204	Educational Technology	3
**Goal 3: Analysis, Quantitative Reasoning, & Problem Solving; minimum 5 GEPs, from minimum of 2 disciplines.		
BIOLOGY.114	Concepts in Biology I	1
CHEM.115	Chemistry for the Sciences 1	1
MATH.141	Introduction to Statistics	3

**Goal 4: Cultures & Diversity; minimum 5 GEPs, from minimum of 2 disciplines.		
EDFOUND.291	Principles of Teaching	1
EDFOUND.406	Multicultural Education	2
SPECED.101	Intro to Exceptional Individuals	2
**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.		
BIOLOGY.114	Concepts in Biology I	3
CHEM.115	Chemistry for the Sciences I	3
**Goal 6: Social Sciences; minimum 5 GEPs, from minimum of 2 disciplines.		
EDFOUND.206	Teachers, Schools, and Society	1
PSYCH.101	General Psychology	3
SPECED.275	Linking Assessment	1
**Goal 7: Humanities; minimum 5 GEPs, from minimum of 2 disciplines; Select MUSIC 101 or THEATRE 102 or 103 to complete this goal.		
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
*Goal 8: Second Language Competency; minimum 2 GEPs.		
_____ 102	Any second language 102 level	2
*Goal 9: Physical Activity & Health; minimum 2 GEPs.		
_____	EXERCISE.114, 211 (highly recommended), 226, 230, 241, 250, 270 or DANCE.117 or NURSING.100 or 217 or HONORS.217	2
*Goal 10: Responsible Citizenship; minimum 2 GEPs.		
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

- Eligible test scores: PRAXIS (www.ets.org), PAPA (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)
- 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)
- **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; 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