

**POST-BACCALAUREATE BACHELOR OF SCIENCE PROGRAM LEADING TO  
CERTIFICATION IN BIOLOGICAL SCIENCES SECONDARY EDUCATION**

**2018-2019 Degree Requirements**

**TOTAL CREDITS FOR DEGREE: 54**

**PREREQUISITES TO THE PROGRAM: 49 credits**

ENGL	(English Composition)	3	EDUC 101	Technological Literacy for Teaching	3
ENGL	(English Literature)	3	EDUC 220	Family & Community Diversity	3
BIOL 101	General Biology I	3	EDUC 222	Assessment & Adaptation	3
BIOL 102	General Biology II	3	EDUC 228	Educational Psychology	3
BIOL 103	General Biology Lab I	1	EDUC 250	Working w/ English Lang. Learners	3
BIOL 104	General Biology Lab II	1	SPED 180	Special Ed & Inclusive Practices	3
CHEM 101	General Chemistry I	3	SPED 280	Posit. Behav. Interventions & Support	3
CHEM 102	General Chemistry II	3			
CHEM 103	Chemistry Lab I	1			
CHEM 104	Chemistry Lab II	1			
MATH 175	Elementary Statistics	3			
MATH 180	College Algebra	3			

**MAJOR REQUIREMENTS: 54 credits**

BIOL 205	Botany	3	EDUC 321	Literacy & Learning in Middle/Secon.	3
BIOL 206	Zoology	3	EDUC 415	Teaching in Middle/Secondary School	3
BIOL 211	Human Biology	3	EDUC 422	Data Driven Instruction	3
BIOL 216	Intro to Microbiology	4	EDUC 425	Student Teaching Practicum	12
BIOL 222	Intro to Genetics	4	EDUC 432	Student Teaching Seminar	3
BIOL 341	Environmental Health	3	SPED 380	Different. Inst. Pract. in Incl. Classrm	3
CHEM 221	Organic Chemistry	3			
PHYS 101	Physics I	3			
PHYS 103	Physics Lab I	1			

**TESTS FOR CERTIFICATION:**

ETS- Biology – Content Knowledge (0235/5235)

**PROGRAM OBJECTIVES**

**Upon successful completion of this program, a student will be able to:**

1. Utilize a variety of instructional strategies.
2. Develop instructional plans and set goals based on the content to be taught/learned, knowledge of assigned students, and the instructional context.
3. Establish and maintain purposeful and equitable classroom environments.
4. Demonstrate integrity, ethical behavior and professional conduct as stated in the *Pennsylvania Code of Professional Practice and Conduct for Educators*.