

**BACHELOR OF SCIENCE
PROGRAM LEADING TO CERTIFICATION IN
BIOLOGICAL SCIENCES SECONDARY EDUCATION
AND SPECIAL EDUCATION (Grades 7-12)**

2011-2012

Student's Name _____
Student's I.D. Number _____
Entrance Date _____
Advisor's Name _____

CORE				36
___	SPED	220	Instructive/Assistive Technology	3
___	ENGL	150	English Composition I	3
___	ENGL	151	English Composition II	3
___	ENGL	218	Technical Writing	3
___	ENGL	250	OR 251	3
			OR PHIL 215	
___	COPA	250	Arts and Human Experience I	3
___	COPA	251	OR CINE 302	3
___	HIST	150	Introduction to Study of History	3
___	MATH	180	College Algebra	3
___	POLS	250	OR POLS 102	3
___	PSYC	150	Psychological Foundations	3
___	SOC	150	OR SOC 111	3

DEPARTMENT GENERAL REQUIREMENTS 21

Natural Sciences

___	BIOL	101	General Biology I	3
___	BIOL	102	General Biology II	3
___	BIOL	103	General Biology Lab I	1
___	BIOL	104	General Biology Lab II	1
___	CHEM	101	General Chemistry I	3
___	CHEM	102	General Chemistry II	3
___	CHEM	103	General Chemistry Lab I	1
___	CHEM	104	General Chemistry Lab II	1
___	MATH	175	Elementary Statistics	3
___	MATH	185	Trigonometry	2

DEPARTMENT MAJOR REQUIREMENTS				30
___	BIOL	205	Botany	3
___	BIOL	206	Zoology	3
___	BIOL	211	Human Biology	3
___	BIOL	216	Introduction to Microbiology	4
___	BIOL	222	Introduction to Genetics	4
___	BIOL	235	Introduction to Ecology	3
___	BIOL	341	Environmental Health	3
___	CHEM	221	Organic Chemistry	3
___	PHYS	101	Physics I	3
___	PHYS	103	Physics Lab I	1

EDUCATION REQUIREMENTS				24
___	EDUC	222	Assessment and Adaptation	3
___	EDUC	228	Educational Psychology	3
___	EDUC	250	Working with English Language Learners	3
___	EDUC	415	Teaching in Secondary School	3
___	EDUC	425	Student Teaching Practicum	12

SPECIAL EDUCATION REQUIREMENTS				27
___	SPED	180	Special Education and Inclusive Practices	3
___	* SPED	220	Instructive/Assistive Technology	3
___	SPED	280	Positive Behavioral Interventions	3
___	SPED	281	High Incidence Disabilities	3
___	SPED	282	Low Incidence Disabilities	3
___	SPED	380	Differentiated Instructional Practices in the Inclusive Classroom	3
___	SPED	381	Secondary Transitions	3
___	SPED	382	Autism Spectrum Disorders	3
___	SPED	480	Professional Collaboration & Communication	3
___	SPED	481	Intensive Reading, Writing, Math	3

* Completed within the CORE

Program Objectives

B.S. Program Leading to Certification in Biological Sciences Secondary Education and Special Education (Grades 7-12)

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*.

Biology Secondary Education and Special Education (Grades 7-12) Course Sequence

Freshman Year Semester 1 (16 cr.)

ENGL	150	English Composition I
MATH	180	College Algebra
BIOL	101	General Biology I
BIOL	103	General Biology I Lab
COPA	250	Arts & Human Experiences I
PSYC	150	Psychological Foundations

Freshman Year Semester 2 (16 cr.)

ENGL	151	English Composition II
MATH	175	Elementary Statistics
BIOL	102	General Biology II
BIOL	104	General Biology II Lab
EDUC	222	Assessment and Adaptations
SPED	180	Special Education and Inclusion

Sophomore Year Semester 1 (18 cr.)

COPA	251	Arts & Human Experiences II
EDUC	228	Educational Psychology
MATH	185	Trigonometry
CHEM	101	General Chemistry I
CHEM	103	General Chemistry I Lab
BIOL	205	Botany
SPED	281	High Incidence Disabilities

***APPLICATION TO DEPARTMENT TO BE COMPLETED

***Sophomore Year Semester 2 (16 cr.)

SOC	150	Sociological Foundations
SPED	220	Instructive/Assistive Technology
SPED	280	Positive Behavioral Interventions
CHEM	102	General Chemistry II
CHEM	104	General Chemistry II Lab
BIOL	206	Zoology

Junior Year Semester 1 (19 cr.)

HIST	150	Introduction to Study of History
SPED	380	Differentiated Instructional Practices
BIOL	216	Introduction to Microbiology
CHEM	221	Organic Chemistry
ENGL	218	Technical Writing
SPED	382	Autism Spectrum Disorders

Junior Year Semester 2 (19 cr.)

EDUC	250	Working with English Language Learners
SPED	282	Low Incidence Disabilities
SPED	480	Professional Collaboration & Comm
BIOL	211	Human Biology
BIOL	222	Intro to Genetics
BIOL	341	Environmental Health

Senior Year Semester 1 (16 cr.)

ENGL	250	World Literature I
PHYS	101	Physics I
PHYS	103	Physics I Lab
BIOL	235	Introduction to Ecology
EDUC	415	Teaching in the Secondary Schools
SPED	481	Intensive Reading, Writing, Mathematics

Senior Year Semester 2 (18 cr.)

EDUC	425	Student Teaching Practicum
POLS	250	Introduction to Government Systems
SPED	381	Secondary Transitions