

**BACHELOR OF SCIENCE
PROGRAM LEADING TO DUAL CERTIFICATION IN
MATHEMATICS 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	Instructional/Assistive Technology	3
___	ENGL	150	English Composition I	3
___	ENGL	151	English Composition II	3
___	ENGL	218	Technical Writing	3
___	ENGL	250	World Literature I OR	3
___	ENGL	251	World Literature II	3
___	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	Introduction Government Systems	3
			OR POLS 102	
___	PSYC	150	Psychological Foundations	3
___	SOC	150	Sociological Foundations	3

DEPARTMENT GENERAL REQUIREMENTS 11

Natural Sciences

___	___	___	___	3
(BIOL 101, CHEM 10, PHYS 101)				
___	___	___	___	3
(BIOL 102, CHEM 102, PHYS 102)				
___	___	___	___	1
(BIOL 103, CHEM 103, PHYS 103)				
___	___	___	___	1
(BIOL 104, CHEM 104, PHYS 104)				
___	NSET	101	Introduction to Natural Science and Engineering Technology	3

DEPARTMENT MAJOR REQUIREMENTS			32	
___	MATH	175	Elementary Statistics	3
___	MATH	185	Trigonometry	2
___	MATH	190	Calculus I	4
___	MATH	210	Calculus II	4
___	MATH	220	Discrete Mathematics	3
___	MATH	230	Linear Algebra I	3
___	MATH	300	Calculus III	4
___	MATH	310	Differential Equations	3
___	MATH	340	Modern Applied Algebra	3
___	MATH	410	Geometry	3

EDUCATION REQUIREMENTS			27	
___	EDUC	222	Assessment & Adaptations	3
___	EDUC	228	Educational Psychology	3
___	EDUC	250	Working with English Language Learners	3
___	EDUC	321	Literacy & Learning in Secondary School	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	Instructional/Assistive Technology	3
___	SPED	280	Positive Behavioral Interventions and Supports	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 Mathematics 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*.

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

Freshman Year Semester 1 (14 cr.)

ENGL	150	English Composition I
MATH	180	College Algebra
MATH	185	Trigonometry
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
MATH	190	Calculus I
EDUC	222	Assessment and Adaptations
SPED	180	Special Education & Inclusive Practices

Sophomore Year Semester 1 (17 cr.)

SOC	150	Sociological Foundations
MATH	210	Calculus II
First Science Course and Lab (Biology, Chemistry, or Physics)		
EDUC	228	Educational Psychology
SPED	281	High Incidence Disabilities

***APPLICATION TO DEPARTMENT TO BE COMPLETED

***Sophomore Year Semester 2 (17 cr.)

MATH	300	Calculus III
EDUC	250	Working with English Language Learners
Second Science course and Lab (Biology, Chemistry, or Physics)		
SPED	220	Instructional/Assistive Technology
SPED	280	Positive Behavioral Interventions

Junior Year Semester I (18 cr.)

EDUC	321	Literacy & Learning in Secondary
ENGL	250	World Literature I
MATH	340	Modern Applied Algebra
MATH	230	Linear Algebra I
SPED	382	Autism Spectrum Disorders
SPED	380	Differentiated Instructional Practices

Junior Year Semester 2 (18 cr.)

HIST	150	Introduction Study of History
ENGL	218	Technical Writing
MATH	310	Differential Equations
MATH	410	Geometry
SPED	282	Low Incidence Disabilities
SPED	480	Professional Collaboration & Comm

Senior Year Semester 1 (18 cr.)

MATH	220	Discrete Mathematics
EDUC	415	Teaching in Secondary Schools
NSET	101	Introduction to Natural Sciences &
POLS	250	Introduction to Government Systems
SPED	481	Intensive Reading, Writing,
COPA	251	Arts & Human Experiences II

Senior Year Semester 2 (15 cr.)

EDUC	425	Student Teaching Practicum
SPED	381	Secondary Transitions