

Tests for Certification:

PECT- PAPA: Reading, Math, Writing (8001, 8002, 8003)
 Praxis Mathematics – Content Knowledge (0061/5061)
 PECT- Special Education 7- 12 (8015, 8016)

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

2014-2015

Student's Name _____

Student's I.D. Number _____

Entrance Date _____

Advisor's Name _____

CORE			36
___	COPA	250 Arts and Human Experience I	3
___	COPA	251 OR CINE 302	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	
___	HIST	150 Introduction to Study of History	3
___	MATH	180 College Algebra	3
___	POLS	250 Intro to Government Systems OR	3
___	POLS	102 American National Government	
___	PSYC	150 Psychological Foundations	3
___	SOC	150 Sociological Foundations	3
___	SPED	220 Instructional/Assistive Technology	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

***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

***APPLICATION TO DEPARTMENT TO BE COMPLETED

Junior Year Semester 1 (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