

BACHELOR OF SCIENCE PROGRAM LEADING TO CERTIFICATION IN MATHEMATICS SECONDARY EDUCATION

2017-2018 Degree Requirements

TOTAL CREDITS FOR DEGREE: 122

UNIVERSITY CORE CURRICULUM 42 credits

Required Courses:

COMM 101	Oral Comm. & Pres.	3 credits
ENGL 101	College Composition	3 credits
UNIV 101	City-University Life	3 credits
	Senior Capstone	3 credits

Choose thematic core courses in the following:

Explore the World - Choice 1	3 credits
Explore the World - Choice 2	3 credits
Investigate Science	3 credits
Investigate Mathematics	3 credits
* Interpret Creative Works	3 credits
Understand People - Choice 1	3 credits
Understand People - Choice 2	3 credits
Succeed in Business	3 credits
Appreciate & Apply the Arts	3 credits
Discover Technology	3 credits

*Interpret Creative Works class must be a literature course.

MAJOR REQUIREMENTS:

74 credits (C = taken in the core)

NSET 101	Introduction to NSET	3	EDUC 101	Tech. Literacy (Discover Technology)	C
MATH 175	Elementary Statistics	3	EDUC 150	Intro to Teaching Profession	3
MATH 180	College Algebra (Investigate Math.)	C	EDUC 220	Family & Comm. Div. (Understand People)	C
MATH 185	Trigonometry	2	EDUC 222	Assessment & Adaptation	3
MATH 190	Calculus I	4	EDUC 228	Educational Psych. (Understand People)	C
MATH 210	Calculus II	4	EDUC 250	Working w/ English Language Learners	3
MATH 220	Discrete Mathematics	3	EDUC 321	Literacy & Learning in Middle/Secondary	3
MATH 230	Linear Algebra	3	EDUC 415	Teaching in Middle/Secondary School	3
MATH 300	Calculus III	4	EDUC 422	Data Driven Instruction	3
MATH 310	Differential Equations	3	EDUC 425	Student Teaching Practicum	12
MATH 340	Modern Applied Algebra	3	EDUC 432	Student Teaching Seminar (Senior Capstone)	C
MATH 410	Geometry	3	SPED 180	Special Ed & Inclusive Practices	3
			SPED 280	Posit. Behav. Interventions & Support	3
			SPED 380	Different. Inst. Practices in Includ. Classrm	3

GENERAL ELECTIVES:

6 credits

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TESTS FOR CERTIFICATION:

PECT- PAPA: Reading, Math, Writing (8001, 8002, 8003) **OR** ETS- CORE: Reading, Writing, Math (5712, 5722, 5732)
ETS- Mathematics – Content Knowledge (0061/5061)

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*.