

POST-BACCALAUREATE BACHELOR OF SCIENCE PROGRAM LEADING TO CERTIFICATION IN MATHEMATICS SECONDARY EDUCATION

2018-2019 Degree Requirements

TOTAL CREDITS FOR DEGREE: 59

PREREQUISITES TO THE PROGRAM:

30-31 credits

ENGL	(English Composition)	3	EDUC 101	Technological Literacy for Teaching	3
ENGL	(English Literature)	3	EDUC 220	Family & Community Diversity	3
CMPS	(Computer programming language, 200+)	3-4	EDUC 222	Assessment & Adaptation	3
			EDUC 228	Educational Psychology	3
			EDUC 250	Working w/ English Lang. Learners	3
			SPED 180	Special Ed & Inclusive Practices	3
			SPED 280	Posit. Behav. Interventions & Support	3

MAJOR REQUIREMENTS:

59 credits

MATH 175	Elementary Statistics	3	EDUC 321	Literacy & Learning in Middle/Secondary	3
MATH 185	Trigonometry	2	EDUC 415	Teaching in Middle/Secondary School	3
MATH 190	Calculus I	4	EDUC 422	Data Driven Instruction	3
MATH 210	Calculus II	4	EDUC 425	Student Teaching Practicum	12
MATH 220	Discrete Mathematics	3	EDUC 432	Student Teaching Seminar	3
MATH 230	Linear Algebra	3	SPED 380	Different. Inst. Pract. in Incl. Classrm	3
MATH 300	Calculus III	4			
MATH 310	Differential Equations	3			
MATH 340	Modern Applied Algebra	3			
MATH 410	Geometry	3			

TESTS FOR CERTIFICATION:

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*.