

BACHELOR OF SCIENCE PROGRAM LEADING TO CERTIFICATION IN MATHEMATICS

SECONDARY EDUCATION

2021-2022 Degree Requirements

Name: _____

ID Number: _____

TOTAL CREDITS FOR DEGREE: 122

UNIVERSITY CORE CURRICULUM: 42 credits

Required Fundamental Courses:

COMM 101	Oral Comm. & Pres.	3 credits	
ENGL 101	College Composition	3 credits	
UNIV 101	City-University Life	3 credits	
Senior Capstone	EDUC 432	3 credits	(Student Teaching Seminar)

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	MATH 180	3 credits	(College Algebra)
* Interpret Creative Works		3 credits	
Understand People - Choice 1	EDUC 220	3 credits	(Family & Community Diversity)
Understand People - Choice 2	EDUC 228	3 credits	(Educational Psychology)
Succeed in Business		3 credits	
Appreciate & Apply the Arts		3 credits	
Discover Technology	EDUC 101	3 credits	(Technological Literacy)

*Interpret Creative Works class must be a literature course.

MAJOR REQUIREMENTS: 74 cr.

NSET 101 Intro to NSET (3)
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 (3)
MATH 300 Calculus III (4)
MATH 310 Differential Equations (3)
MATH 340 Modern Applied Algebra (3)
MATH 410 Geometry (3)
EDUC 150 Intro to Teaching Profession (3)
EDUC 222 Assessment & Adaptation (3)
EDUC 250 Working w/ English Lang Learners (3)

EDUC 321 Lit & Learn in Midd/Sec (3)
EDUC 415 Teaching in Midd/Sec (3)
EDUC 422 Data Driven Instruction (3)
EDUC 425 Student Teaching Pract (12)
SPED 180 Special Ed&Inclusive Prac (3)
SPED 280 Positive Behav Inter&Sup (3)
SPED 380 Diff Inst Pract Incl Clssrm (3)

TESTS FOR CERTIFICATION:

PECT-PAPA: Reading, Math, Writing (8001, 8002, 8003) **OR**
ETS-CORE: Reading, Writing, Math (5713, 5733, 5723)
ETS-Mathematics-Content Knowledge (5061)

GENERAL ELECTIVES: 6 cr.

BACHELOR OF SCIENCE PROGRAM LEADING TO CERTIFICATION IN MATHEMATICS

SECONDARY EDUCATION

2021-2022 Degree Requirements

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*.