

BACHELOR OF SCIENCE PROGRAM LEADING TO CERTIFICATION IN MATHEMATICS

SECONDARY EDUCATION

2023-2024 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

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
* Interpret Creative Works	3 credits
Understand People - Choice 1	EDUC 220 3 credits
Understand People - Choice 2	EDUC 228 3 credits
Succeed in Business	3 credits
Appreciate & Apply the Arts	3 credits
Discover Technology	EDUC 101 3 credits

*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 Cllsrm (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.

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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*.