

BACHELOR OF SCIENCE PROGRAM LEADING TO CERTIFICATION IN MATHEMATICS

SECONDARY EDUCATION

2025-2026 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 and 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.

EGR 101 Intro to Engineering (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 I (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 Secondary (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:

Check PDE Test Requirements:

<https://www.pa.gov/agencies/education/programs-and-services/educators/certification/certification-testing.html>

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 process.
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*.