# Bachelor of Science Program Leading to Certification in Mathematics Secondary Education

## 2023-2024 Degree Requirements

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**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 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.

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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.