

**BACHELOR OF SCIENCE PROGRAM LEADING TO DUAL CERTIFICATION IN MATHEMATICS
SECONDARY EDUCATION AND SPECIAL EDUCATION (Gr.7-12)**

2021-2022 Degree Requirements

Name: _____

ID Number: _____

TOTAL CREDITS FOR DEGREE: 134

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: 92 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 Assess & Adapt (3)

EDUC 250 Work w/Eng Lang Learn (3)
EDUC 321 Lit&Learn in Midd/Sec (3)
EDUC 415 Teach in Midd/Sec (3)
EDUC 422 Data Driven Instruction (3)
EDUC 425 Student Teaching Pract (12)
SPED 180 Special Ed&Inclusive Prac (3)
SPED 220 Instr/Assist Tech (3)
SPED 280 Positive Behav Int/Supp (3)
SPED 281 High Inced Dis (3)
SPED 282 Low Inced Dis (3)
SPED 380 Diff Inst Prac Incl Clssrm (3)
SPED 381 Secondary Transitions (3)
SPED 382 Autism Spectrum (3)
SPED 481 In Read/Write/Math Sped (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)

PECT-Special Education 7-12 (8015, 8016)

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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*.