

# Secondary Education

## BSED Secondary Mathematics Education

This is a guide based on the 2023-24 Academic Catalog and is subject to change. The time it takes to earn a degree will vary based on several factors such as dual enrollment, remediation, and winter/summer enrollment. Students will meet with an academic advisor each semester and use Degree Works to monitor their individual progress. We recommend taking a minimum of 15 credits each fall and spring semester.

### Sample 4-Year Plan

First Year			
Fall Courses	Credits	Spring Courses	Credits
FYS100 First Year Seminar (Foundations)	3	MSED110 Intro to Middle & Secondary Education	3
MATH160 Calculus 1 (Quantitative Reasoning)	4	EDTC200 Technology for Teaching and Learning	3
WRIT103 Composition GE (Writing)	3	MATH170 Calculus II	4
Gen Ed (History)	3	PSYC100 Intro to Psychology (Natural World)	3
SPEC110 Intro to Indiv. With Exceptionalities (Citizenship)		MATH250 Discrete Mathematics (Critical Reasoning)	3
Semester Total	16	Semester Total	16

Second Year			
Fall Courses	Credits	Spring Courses	Credits
ELL320 Cultural Awareness and Sensitivity GE (Diversity)	3	EDUC222 Principles & Structures in PK12 Education	3
SPEC220 Data Driven Interventions for Indiv w/ Exceptionalities	3	MATH340 Linear Algebra	3
MATH270 Calculus III	4	PHYS211 General Physics I (Natural World)	4
STAT241 Probability & Statistics	3	Gen Ed (Arts)	3
ENGL Gen Ed (Literature)	3	Gen Ed (Oral Communication)	3
	3		
Semester Total	16	Semester Total	16

Third Year			
Fall Courses	Credits	Spring Courses	Credits
EDUC346 Teaching in Diverse Contexts GE (Diversity)	3	MSED475 Teaching Mathematics in Secondary Schools	3
EDUC334 Connecting Research and Classroom Practice	3	Elective	3
SPEC330 Methods of Instruction for Indiv with Exceptionalities	3	Elective	3
MATH260 College Geometry (or Math 220 History)	3	Elective	3
Gen Ed (Global Perspectives)	3	Elective	3
Semester Total	15	Semester Total	15

Fourth Year			
Fall Courses	Credits	Spring Courses	Credits
EDUC358 Assessment and Differentiation for Inclusive Classrooms	3	MSED491 Student Teaching 1	6
EDUC474 Classroom Management & Effective Discipline	3	MSED492 Student Teaching 2	6
MATH480 Abstract Algebra	3		
MATH220 History of Mathematics (or Math 260 Geom.)	3		
Elective	3		
Semester Total	15	Semester Total	12

### Winter/Summer College - Optional

While not required, Winter and Summer sessions are offered each year and may help you stay on track or get ahead. You may take up to seven (7) credits during Winter College and up to 14 credits during Summer College.

## Curriculum Checklist

### Required Education Courses (36 credits)

- EDUC222 Principles & Structures of PK12 Education
- EDUC334 Connecting Research and Classroom Practice
- EDUC358 Assessment and Differentiation for Inclusive Classroom
- EDUC474 Classroom Management and Effective Discipline
- MSED110 Intro to Middle and Secondary Education
- MSED475 Teaching Mathematics in Secondary Schools
- MSED491 Student Teaching 1
- MSED492 Student Teaching 2
- SPEC220 Data Driven Interventions for Indiv with Exceptionalities
- SPEC330 Methods of Instruction for Indiv with Exceptionalities

### Required Content Area Courses (23 credits)

- MATH170 Calculus II
- STAT241 Probability & Statistics
- MATH270 Calculus III
- MATH260 College Geometry
- MATH340 Linear Algebra
- MATH480 Abstract Algebra
- MATH220 History of Math

### Electives

- Elective (to select a minor and/or dual major in applied math)
- Elective (to select a minor and/or dual major in applied math)
- Elective (to select a minor and/or dual major in applied math)
- Elective (to select a minor and/or dual major in applied math)
- Elective (to select a minor and/or dual major in applied math)

## General Education Requirements

### (45 credits)

*Note: Some requirements may be fulfilled by coursework in your major program including directed Gen Ed courses noted below*

- Foundations (15 credits)
  - FYS100 First Year Seminar
  - MATH160 Calculus 1 (Quantitative)
  - WRIT103 Composition (Writing)
  - History
  - Oral Communication
- Interconnections (9 credits)
  - EDUC346 Teaching in Diverse Contexts (Diversity)
  - ELL320 Cultural Awareness and Sensitivity (Diversity)
  - Global Perspectives
- Citizenship & Responsibility (6 credits from at least two goals)
  - SPEC110 Intro to Individuals with Exceptionalities (Citizenship)
  - MATH250 Discrete Mathematics (Critical Reasoning)
- Natural World & Technologies (9 credits)
  - EDTC200 Technology for Teaching & Learning (Technology)
  - PHYS211 General Physics I (Natural World)
  - PSYC100 Intro to Psychology (Natural World)
- Creativity & Expression (6 credits)
  - Literature
  - Arts or Creativity

## Degree Requirements

All students must obtain a minimum of 120 credits, complete all General Education requirements, and all requirements for the selected major. Meet with your advisor and consult Degree Works to monitor your progress and for all graduation requirements. There is a PDE GPA minimum requirement for certification (not graduation).

*A minimum GPA of 2.0 in the major and overall are required.*

## Campus Locations

- |                   |  |
|-------------------|--|
| <b>Bloomsburg</b> | <input checked="" type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input checked="" type="checkbox"/> Blended |
| <b>Lock Haven</b> | <input checked="" type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input checked="" type="checkbox"/> Blended |
| <b>Mansfield</b>  | <input checked="" type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input checked="" type="checkbox"/> Blended |
| <b>Clearfield</b> | <input type="checkbox"/> Online; <input type="checkbox"/> In-person; <input type="checkbox"/> Blended                                  |