

Secondary Education

BSED Secondary Mathematics Education

This degree map is based on the current Academic Catalog and is subject to change. Please note that the degree map is designed to give you a sense of roughly how courses might be distributed over a 4-year degree. Your exact schedule will differ depending on a range of factors though we recommend taking a minimum of 15 credits each fall and spring semester. Regular consultation with your academic advisor is the best way to make sure that you are taking the courses you need in the right order to ensure efficient progress through your degree program.

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.

Secondary Mathematics Ed

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)
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*Denotes advanced coursework

Students must take a minimum of 42 credits of advanced coursework. Advanced coursework can be met in major courses, minor courses, free elective courses, and general education courses. Courses that meet this requirement are designated in Banner.

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.