

Middle Level Education

BSED Middle Level 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	3	SPEC110 Intro to Individuals with Exceptionalities	3
MSED110 Intro to Middle and Secondary Education	3	EDTC200 Technology for Teaching and Learning	3
WRIT103 Composition GE (Writing)	3	MATH110 Concepts of Arithmetic and Number Systems	3
Gen Ed (History)	3	Gen Ed (Literature)	3
MATH Elective	3	BIOL105 Basic Biology (Natural World)	3
Semester Total	15	Semester Total	15

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 Individ w/ Exceptionalities	3	PHYS110 How Things Work	3
MATH113 Concepts of Geometry and Statistics	3	STAT141 Introduction to Statistics	3
EGGS100 intro to Environmental Science (Natural World)	3	MATH103 Critical Reasoning in Mathematics (Critical Reasoning)	3
MATH140 Precalculus (Quantitative)	3	EGGS104 World Regional Geography (Global Persp.)	3
Gen Ed (Arts)	3		
Semester Total	18	Semester Total	15

Third Year			
Fall Courses	Credits	Spring Courses	Credits
EDUC346 Teaching in Diverse Contexts GE (Diversity)	3	MATH230 Discrete Structures or MATH250 Discrete Mathematics	3
EDUC334 Connecting Research and Classroom Practice	3	Math Elective	3
SPEC330 Methods of Instruction for Individ with Exceptionalities	3	MSED315 Teaching with Young Adolescent and Young Adult Literature	3
HIST401 History of PA	3	Math Elective	3
MATH150 Essentials of Calculus or MATH160 Calculus 1	3	Gen Ed (Oral Communication)	3
Semester Total	15	Semester Total	15

Fourth Year			
Fall Courses	Credits	Spring Courses	Credits
MSED440 Teaching ML LA/SS	3	MSED491 Student Teaching 1	6
MSED450 Teaching ML Science/Math	3	MSED492 Student Teaching 2	6
EDUC474 Classroom Management and Effective Discipline	3		
EDUC358 Assessment and Differentiation for Inclusive Classrooms	3		
MSED420 Content Area Literacy Grades 4-12	3		
Semester Total	15	Semester Total	12

Curriculum Checklist

Required Education Courses (42 credits)

- ___ EDUC222 Principles & Structures of PK12 Education
- ___ EDUC334 Conducting Research and Classroom Practice*
- ___ EDUC474 Classroom Management and Effective Discipline*
- ___ MSED110 Intro to Middle and Secondary Education
- ___ MSED315 Teaching w/ Young Adoles. & Yng Adult Lit*
- ___ MSED420 Content Area Literacy, Grades 4-12*
- ___ MSED440 Teaching Middle Level LA/SS*
- ___ MSED450 Teaching Middle Level Science/Math*
- ___ 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 (15 credits)

- ___ STAT141 Introduction to Statistics
- ___ MATH110 Concepts of Arithmetic and Number Systems
- ___ MATH113 Concepts of Geometry and Statistics
- ___ PHYS110 How Things Work
- ___ HIST401 History of PA*

Electives

- ___ Math Elective
- ___ Math Elective
- ___ Math Elective
- ___ MATH230 Discrete Structures or MATH250 Discrete Mathematics
- ___ MATH150 Essentials of Calculus or MATH160 Calculus

*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
 - MATH140 PreCalculus (Quantitative)
 - WRIT103 Composition (Writing)
 - (History)
 - Oral Communication
- Interconnections (9 credits)
 - EDUC346 Teaching in Diverse Contexts (Diversity)*
 - ELL320 Cultural Awareness and Sensitivity (Diversity)*
 - EGGS104 World Regional Geography (Global Perspectives)
- Citizenship & Responsibility (6 credits from at least two goals)
 - SPEC110 Intro to Individuals with Exceptionalities (Citizenship)
 - MATH103 Critical Reasoning in Mathematics (Critical Reasoning)
- Natural World & Technologies (9 credits)
 - EDTC200 Technology for Teaching & Learning (Technology)
 - BIOL105 Basic Biology (Natural World)
 - EGGS100 Intro to Environmental Science (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. A 2.8 GPA is required for teacher certification.

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.