

Middle Level Education

BSED Middle Level Science 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 (Gen Ed Citizenship)	3
MSED110 Intro to Middle and Secondary Education	3	EDTC200 Technology for Teaching and Learning (Gen Ed Technology)	3
EGGS100 Intro to Environmental Science	3	EGGS120 Physical Geology (Gen Ed Natural World)	4
Gen Ed (History)	3	EGGS102 World Cultural Geography (Gen Ed Diversity)	3
MATH118 College Algebra GE (Quantitative)	3	WRIT103 Composition (Gen Ed Writing)	3
Semester Total	15	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 Individ w/ Exceptionalities	3	ASTR103 Astronomy	3
MATH140 Precalculus or MATH160 Calculus 1	3	EGGS105 Environmental Issues and Choices (Gen Ed Global Perspectives)	3
BIOL110 Principles of Biology 1 (Gen Ed Natural World)	4	Elective	3
ENGL151, 152, 227, 228, 230, 240, 250, 281, 284, 289, 290, 291, 330, 390, 391 or 420 (Gen Ed Literature)	3	STA141 Intro to Statistics (Gen Ed Quantitative)	3
Semester Total	16	Semester Total	15

Third Year			
Fall Courses	Credits	Spring Courses	Credits
EDUC346 Teaching in Diverse Contexts GE (Diversity)	3	EDUC358 Assessment and Differentiation for Inclusive Classrooms	3
EDUC344 Connecting Research and Classroom Practice	3	Gen Ed (Critical Reasoning)	3
SPEC330 Methods of Instruction for Individ with Exceptionalities	3	CHEM118 Introductory Chemistry or CHEM121 General Chemistry 1	3
PHYS208 Introductory Physics or PHYS211 General Physics 1	4	Gen Ed (Oral Communication)	3
Gen Ed (Arts)	3	HIST401 History of Pennsylvania	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		
MSED420 Content Area Literacy Grades 6-12	3		
Science 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 (42 credits)

- ___ EDUC222 Principles & Structures of PK12 Education
- ___ EDUC334 Conducting Research and Classroom Practice*
- ___ EDUC346 Teaching in Diverse Contexts*
- ___ EDUC358 Assessment and Differentiation for Inclusive Classrooms*
- ___ EDUC474 Classroom Management and Effective Discipline*
- ___ MSED110 Intro to Middle and Secondary Education
- ___ 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)

- ___ ASTR103 Astronomy
- ___ EGGS100 Intro to Environmental Science
- ___ PHYS208 Introductory Physics OR PHYS211 General Physics 1
- ___ CHEM118 Introductory Chemistry OR CHEM121 General Chemistry 1
- ___ MATH118 College Algebra
- ___ MATH140 Precalculus OR MATH160 Calculus 1
- ___ HIST01 History of Pennsylvania

Electives

- ___ Science Elective
- ___ MSED453 Teaching Science in the Secondary Schools*

*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
 - STA141 Intro to Statistics (Quantitative)
 - WRIT103 Composition (Writing)
 - History
 - Oral Communication
- Interconnections (9 credits)
 - EGGS102 World Cultural Geography (Diversity)
 - ELL320 Cultural Awareness and Sensitivity (Diversity)
 - EGGS105 Environmental Issues and Choices (Global Perspectives)
- Citizenship & Responsibility (6 credits from at least two goals)
 - SPEC110 Intro to Individuals with Exceptionalities (Citizenship)
 - Critical Reasoning or Ethical Reasoning
- Natural World & Technologies (9 credits)
 - EDTC200 Technology for Teaching & Learning (Technology)
 - BIOL110 Principles of Biology 1(Natural World)
 - EGGS120 Physical Geology (Natural World)
- Creativity & Expression (6 credits)
 - ENGL151, 152, 227, 228, 230, 240, 250, 281, 284, 289, 290, 291, 330, 391 or 420 (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.