



Springfield College Sequencing Guide

Mathematics and Education Majors (MATH&EDUC) ▼ 2023-2024 Grades 5-12 Licensure Program

Requirements are subject to change and may not be offered when listed. Use your online degree audit to verify your progress with your advisor.

Core Curriculum Requirements, Electives, and College Requirements

In addition to the major requirements listed below, you will need to fill the following Core Curriculum categories:

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| • 100-level Wellness & Physical (1 cr) | • Literature (3 cr) | • Aesthetic Expression (3 cr) |
| • 200-level Wellness & Physical (1 cr) | • Scientific Reasoning (4 cr) | • Historical and Social (3 cr) |
| • 300-level Wellness & Physical (1 cr) | • Spiritual and Ethical (3 cr) | |

This major typically requires 89 credits to complete. In addition to the Core Curriculum and major requirements listed, you must complete:

- **4 elective credits or more** to total at least 120 credits
- The **residency requirement**—45 credits taken at Springfield College (including 15 of your last 30)

Wellness Passport Stamps

All students must complete **24 stamps** upon successful completion of a WLPL 300-level course. Students must complete a minimum of 8 stamps in each of the following domains:

- Mental Wellness
 Physical Wellness
 Meaning and Purpose Wellness

MATH & EDUC/SED Major Requirements – Typical First-Year Schedule

<p>Fall: SCSM 101, Springfield College Seminar (Core requirement – 3 cr) ENGL 113, College Writing I (Core requirement – 3 cr) MATH 140, Calculus I (3 cr – also fills Quantitative Reasoning Core– may first need to take MATH 115, College Algebra, or MATH 125, Precalculus) EDUC 237, Foundations of Multicultural Education (3 cr – fills Themed Exploration Core) Plus major requirements or Core to total approximately 15 credits</p>	<p>Spring: ENGL 114, College Writing II (Core requirement – 3 cr) CISC 165, Visual Programming Concepts (3 cr) or CISC 175, Introduction to Computer Science with C++ (3 cr) EDUC 101, Schools, Society and Diverse Learners (3 cr) MATH 142, Calculus II (3 cr) Plus major requirements or Core to total 30 credits for the year</p>
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MATH & EDUC/SED Major Requirements – Typical Second-Year Schedule

<p>Fall: EDUC 250, Childhood and Adolescent Development in Educational Settings (3 cr) MATH 220, Calculus III (3 cr) PHYS 310 Physics I with Calculus (4 cr) PHYS 212 General Physics I Lab (0 cr) Plus major requirements or Core to total approximately 15 credits</p>	<p>Spring: *EDUC 162, Exceptional Children (3 cr) *EDUC 238, Pre-Practicum in Special Education (PreK-8) (1 cr) MATH 201, Contemporary Applications of Mathematics (3 cr) MATH 305, Differential Equations (3 cr) EDUC 230, Literacy in the Content Areas (3 cr) Plus major requirements or Core to total 30 – 33 credits for the year</p>
<p>Fall or Spring: MATH 215, Probability and Statistics (3 cr) MATH 235, Discrete Mathematics I (3 cr)</p>	

MATH & EDUC/SED Major Requirements – Typical Third-Year Schedule

Fall:

*EDUC 234, Curriculum, Methods, and Organization for Secondary Teachers (3 cr)
*EDUC 318, Tutorial Pre-Practicum (3 cr)
MATH 310, Linear Algebra (3 cr)
Plus major requirements or Core to total approximately 15 credits

Spring:

CISC 150, Computing and Digital Literacy (3 cr – fills Themed Exploration Core Curriculum)
EDUC 364, Pre-Practicum – Teaching and Special Issues in Secondary Education (3 cr)
MATH 415, Abstract Algebra (3 cr – also fills half of WAC Core Curriculum)
Plus major requirements or Core to total 30 – 33 credits for the year

Fall or Spring:

EDUC 328, Sheltered English Immersion (3 cr – fills Themed Exploration Core)
MATH 382, Mathematics Seminar (3 cr)
MATH 405, Mathematical Analysis (3 cr – also fills half of WAC Core)

**These courses should be taken concurrently (during the same semester).*

MATH & EDUC/SED Major Requirements – Typical Fourth-Year Schedule

Fall or Spring:

Select a minimum of **12 credits** (in consultation with your advisor) from:

EDUC 464, Middle School Practicum and Seminar (4-12 cr)

EDUC 465, High School Practicum and Seminar (4-12 cr)

Plus any outstanding Core or electives to total a minimum of 120 credits for your career

Additional MATH & EDUC/SED Major Requirements – Flexible Timing

Select **one** course (3 credits) from the following:

CISC 125, Data Analysis Using R (3 cr)

CISC 165, Visual Programming Concepts (3 cr – spring only course)

CISC 175, Introduction to Computer Science with C++ (3 cr – fall only course)

CISC 215, Python Programming (3 cr)

Select **3 courses** (9 credits) from the following:

MATH 201, Contemporary Applications of Mathematics (3 cr)

MATH 205, Geometry (3 cr)

Any 300 or 400 – Level MATH Course

MATH Major – Program Standards

Program standards for the MATH major include, but are not limited to:

- Achieve a minimum cumulative GPA of 2.500
- Achieve a minimum cumulative GPA of 2.500 in MATH major requirements
- Complete all program requirements with a grade of C- or better

For more information about these and other program standards, contact your advisor or the MPCS department chairperson.

Program standards for the EDUC major include, but are not limited to:

- A minimum cumulative GPA of 2.750 for all designated licensure courses (see *Educator Preparation Handbook* for more information)
- Earn a minimum cumulative GPA of 2.500
- Receive a passing score on the Communication and Literacy Skills Test (reading and writing) of the Massachusetts Test for Education Licensure (MTEL)
- Receive passing scores on the appropriate MTEL Subject Tests
- Earn minimum grades specified for designated course (see the *Educator Preparation Handbook*)

For more information about these and other program standards, contact your advisor or the EDUC department chairperson.