Springfield College
Sequencing Guide
Mathematics Major (non-teaching) (MATH) ▼ 2021-2022

If you entered Springfield College in 2021-2022, use this guide for sequencing your courses. Requirements are subject to change and may not be offered when listed. Use your online degree audit to verify your progress, and always confirm your plans 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:

- 100-level Wellness & Physical (1 cr)
- 200-level Wellness & Physical (1 cr)
- 300-level Wellness & Physical (1 cr)
- Literature (3 cr)
- Scientific Reasoning (4 cr)
- Spiritual and Ethical (3 cr)
- Aesthetic Expression (3 cr)
- Historical and Social (3 cr)
- Themed Explorations (9 cr)
  - ➢ 3 prefixes
  - ➢ 1 Global course

This major typically requires 45 credits to complete. In addition to the Core Curriculum and major requirements listed, you must complete:
- **38 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)

MATH Major Requirements – Typical First-Year Schedule	
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) CISC 105, Introduction to Computer Concepts (3 cr) Plus other Core and major requirements, or electives to total approximately 15 credits	**Spring:** ENGL 114, College Writing II (Core requirement – 3 cr) MATH 142, Calculus II (3 cr) Plus other Core and major requirements, or electives to total 30 credits for the year

MATH Major Requirements – Typical Second-Year Schedule	
Fall: MATH 220, Calculus III (3 cr) Plus Core and major requirements, or electives to total approximately 15 credits	**Spring:** MATH 305, Elementary Differential Equations (3 cr) Plus Core and major requirements, or electives to total 30 credits for the year
Fall or Spring: MATH 235, Discrete Mathematics I (3 cr)	

MATH Major Requirements – Typical Third-Year Schedule	
Fall: MATH 310, Linear Algebra (3 cr) Plus Core and major requirements, or electives to total approximately 15 credits	**Spring:** MATH 415, Abstract Algebra (3 cr – also fills half of WAC Core) Plus Core and major requirements, or electives to total 30 credits for the year
Fall or Spring: MATH 335, Discrete Mathematics II (3 cr) MATH 382, Mathematics Seminar (3 cr) MATH 405, Mathematical Analysis (3 cr – also fills half of WAC Core)	

MATH Major Requirements – Typical Fourth-Year Schedule
Fall or Spring:
Any outstanding Core and major requirements, or electives to total a minimum of 120 credits for your career

Additional MATH Major Requirements – Flexible Timing
MATH 201, Contemporary Applications of Mathematics (3 cr) MATH 205, Geometry (3 cr) MATH 215, Probability and Statistics (3 cr) CISC 165, Visual Programming Concepts (3 cr – spring only course)   *or* CISC 175, Introduction to Computer Science with C++ (3 cr – fall only 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 you advisor or the MPCS department chairperson.