Springfield College
Sequencing Guide
Mathematics Major (non-teaching) (MATH) ▼ 2020-2021

If you entered Springfield College in 2020-2021, 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.

GenEd Requirements, Electives, and College Requirements
In addition to the major requirements listed below, you will need to fill the following General Education (GenEd) categories:

- WLPL 100, Exploring Movement & Wellness (1 cr)
- 200-level Wellness & Physical (1 cr)
- 300-level Wellness & Physical (1 cr)
- Literary Studies (3 cr)
- Scientific Reasoning (4 cr)
- Spiritual and Ethical (3 cr)
- Aesthetic Expression (3 cr)
- Historical and Social (3 cr)
- Themed Explorations (9 cr)

This major typically requires 45 credits to complete. In addition to the GenEd and major requirements listed, you must complete:
- **38 elective credits or more** (depending on GenEds selected) 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 (GenEd requirement – 3 cr) ENGL 113, College Writing I (GenEd requirement – 3 cr) MATH 140, Calculus I (3 cr – also fills Quantitative Reasoning GenEd – may first need to take MATH 115, College Algebra, or MATH 125, Precalculus) CISC 105, Introduction to Computer Concepts (3 cr) Plus other GenEds, major requirements with flexible timing, or electives (as applicable) to total approximately 15 credits	**Spring:** ENGL 114, College Writing II (GenEd requirement – 3 cr) MATH 142, Calculus II (3 cr) Plus other GenEds, major requirements with flexible timing, or electives (as applicable) to total 30 credits for the year

MATH Major Requirements – Typical Second-Year Schedule	
Fall: MATH 220, Calculus III (3 cr) Plus GenEds, major requirements with flexible timing, or electives (as applicable) to total approximately 15 credits	**Spring:** MATH 305, Elementary Differential Equations (3 cr) Plus GenEds, major requirements with flexible timing, or electives (as applicable) 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 GenEds, major requirements with flexible timing, or electives (as applicable) to total approximately 15 credits	**Spring:** MATH 415, Abstract Algebra (3 cr – also fills half of WAC GenEd) Plus GenEds, major requirements with flexible timing, or electives (as applicable) 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 GenEd)	

MATH Major Requirements – Typical Fourth-Year Schedule
Fall or Spring:
Any outstanding GenEds, major requirements, or electives (as applicable) 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.