



Springfield College Sequencing Guide Mathematics Major (non-teaching) ▼ 2017-2018

If you are a Mathematics major who matriculated to Springfield College in 2017-2018, use this as a guide for sequencing your courses. Requirements listed on this guide are subject to change and may not be offered when listed—use your online degree audit for the most accurate information. Always confirm your plans with your advisors, and consult your advisors or chairpersons if you have any questions.

MATH Major – Typical First-Year Schedule	
Fall: ENGL 113, College Writing I (3 cr – fills half College Writing GenEd) 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 – also fills Computer Applications GenEd) Plus GenEds, major requirements with flexible timing, or electives (as applicable) to total approximately 15 credits	Spring: ENGL 114, College Writing II (3 cr – fills half College Writing GenEd) MATH 142, Calculus II (3 cr) Plus GenEds, major requirements with flexible timing, or electives (as applicable) to total 30 credits for the year
Fall or Spring: HLTH 100, Wellness: A Way of Life (3 cr – fills Health and Wellness GenEd)	

MATH Major – 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 – 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 – 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	

Requirements continued on next page

Additional MATH 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, Programming in BASIC (3 cr)
or
CISC 175, Introduction to Computer Science with C++ and Java (3 cr)

MATH 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.

GenEd Requirements, Electives, and College Requirements

This major typically requires 45 credits to complete. In addition to the requirements previously listed, you must complete:

- **Additional GenEds:** Literary Studies, Visual/Performing Arts, Spiritual/Ethical Dimensions, Natural Sciences, Historical/Cultural Studies, Behavioral/Social Sciences, International/Multicultural Studies, Social Justice, and Physical Activity
- **35 elective credits or more** (depending on GenEds selected) to total at least 120 credits
- The **residency requirement**—60 credits taken at Springfield College (including 15 of your last 30)