

MATHEMATICS MAJOR – B.A.

The BA is a comprehensive Mathematics degree that allows students the flexibility to follow their own interests in coursework, research, and independent study. By completing the core, students will develop knowledge and skills in the major areas of mathematics (discrete and continuous, deterministic and probabilistic). In their remaining elective courses, students will be able to pursue their interests in pure or applied mathematics. The math faculty is committed to working with all students to ensure success by providing a supportive environment that stresses critical thinking, intellectual challenge, and continual encouragement.

Policy on prerequisites: A grade of C- or better is required for a course in mathematics to fulfill a prerequisite for another mathematics course. A student must receive the permission of the mathematics department to take a mathematics course that is a prerequisite for a mathematics course for which they have previously received credit.

Summary

Code	Title	Credits
	Mathematics B.A. Major Requirements	38
	Integrative Core Curriculum Requirements ¹	28-40
	Electives	42-54
Total Credits		120

¹ See Integrative Core Curriculum requirements, with information about the H&S CLA requirement. (<https://catalog.ithaca.edu/undergrad/schools/school-humanities-sciences/#integrativecorecurriculumicctext>)

Degree Requirements

An overall GPA of C (2.00) or above is required in mathematics courses that are being used to fulfill the minimum course requirements for the mathematics major. No more than one passing grade below C- in mathematics courses may be used.

Code	Title	Credits
REQUIRED COURSES IN THE DEPARTMENT		
MATH 11100	Calculus I	4
MATH 11200	Calculus II	4
MATH 19100	World of Mathematics	1
MATH 21600	Statistical Analysis	3
	or MATH 24600 Intermediate Statistics	
MATH 23100	Linear Algebra	3
MATH 49800	Capstone in Mathematics I	1
MATH xxxxx	Additional 22 credits in MATH at level MATH 17000 or above, with at least 14 credits at 300-level or above ¹	22
Total Credits		38

¹ The following courses cannot be used to count toward the Mathematics elective requirement: MATH 18800-18899.