

MATHEMATICS MAJOR – B.A. WITH TEACHING OPTION

No additional students are being admitted to this program as of Fall 2021.

This program prepares students for initial New York State certification to teach at the secondary school (7-12) level.

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 with Teaching Option B.A. Content Area Requirements	40
	Core Education Requirements	41-47
	Integrative Core Curriculum Requirements ¹	17-29
	Electives	6-24
	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 average of B (3.00) or above is required in mathematics courses that are being used to fulfill the minimum course requirements for the mathematics major. Also, no more than one passing grade below C- in mathematics courses may be used.

Code	Title	Credits
REQUIRED MATHEMATICS COURSES		
MATH 11100	Calculus I	4
MATH 11200	Calculus II	4
MATH 18500	Math Experimentation	3
MATH 19100	World of Mathematics	1
MATH 21100	Calculus III	4
MATH 21600	Statistical Analysis or MATH 24600 Intermediate Statistics	3
MATH 23100	Linear Algebra	3
MATH 27000	Mathematical Reasoning with Discrete Mathematics	3
MATH 30300	Abstract Algebra	4
MATH 36200	Modern Geometry	4
MATH 39700	Junior Seminar	1
MATH 3xxxx- MATH 4xxxx	Of the 6 MATH upper-level credits, at least 3 credits at level 4; MATH 39100 cannot be used as an elective.	6
CORE EDUCATION REQUIREMENTS		
EDUC 10200	Reading Foundations	2

EDUC 20200	Literacy Across the Disciplines for Middle and Secondary Education	2
EDUC 20100	Technology for the Middle/Secondary School Teacher	2
EDUC 21010	Educational Psychology	3
EDUC 21800	Introduction to Pedagogy and Practice	3
EDUC 21910	Early Field Experience: Theory and Practice	3
EDUC 22900	Second Language Acquisition: Its Nature and Meaning for Educators	2
EDUC 23900	Educating Students with Special Needs in Diverse Classrooms	3
EDUC 34000	Social and Cultural Foundations of Education	3
EDUC 40800	Professional Development Seminar	0
EDUC 40510	Pedagogy and Practice for the Mathematics Teacher	3
EDUC 41210	Seminar in Reflective Practice	3
EDUC 49810	Professional Semester in Education	12
EDUC 19210	Child Abuse Identification and Prevention	0
EDUC 19220	Drug and Alcohol Abuse: Identification and Prevention	0
EDUC 19230	School Violence Prevention	0
EDUC 19240	Harassment, Bullying, and Discrimination in Schools: Prevention and Intervention	0
	Foreign Language Proficiency	0-6
	Total Credits	81-87

Additional Education Requirements

- All teaching-option students must successfully complete a year of college-level study in a language other than English or demonstrate equivalent proficiency.
- All teaching-option students must successfully complete a writing course numbered WRTG 10600 or above.
- All teaching-option students must maintain a minimum overall G.P.A. of 3.0 as well as a G.P.A. of 3.0 in their subject area coursework.
- Students must earn a grade of B or better in all EDUC courses in the Education Core to qualify for student teaching. A grade of B- does not qualify.
- EDUC 49810 and EDUC 41210 constitute a full course load during the student-teaching semester. No additional courses may be taken nor can teacher candidates participate in extra-curricular activities that have the potential to affect time for teaching and preparation.
- During the semester of student teaching, the student may not play a college sport.
- All candidates for initial certification must successfully complete all New York State Certification tests or performance assessments required by the state for the applicant's intended teaching certificate (type, grade levels, and subject areas).
- The mathematics department chair and the coordinator of teacher education must approve any exceptions to the above requirements.
- The All-College Teacher Education Unit at Ithaca College requires teacher education students, regardless of program area, to be reviewed at four programmatic transition points during their course of study. Continuation in a teacher education major is contingent upon

the student successfully meeting the requirements of each transition point review; therefore, admission into one of the Ithaca College Teacher Education Program majors at admission or upon transfer to the College *does not guarantee* that a student will be allowed to complete the program required for teaching certification. Further information can be found in the Unit-Wide Assessment Systems section of the main Department of Education catalog page.