

BIOLOGY 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.

Summary

Code	Title	Credits
	Biology with Teaching Option B.A. Content Area Requirements	62-64
	Core Education Requirements	41-47
	Integrative Core Curriculum Requirements ¹	17-29
	Electives	0
	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

Code	Title	Credits
BIOLOGY		
BIOL 12100	Principles of Biology, Cell and Molecular	4
BIOL 12200	Principles of Biology, Ecology and Evolution	4
BIOL 20700	Communicating Biology	3
BIOL 22700	Genetics	4
BIOL 27100	General Ecology	4
BIOL 30200	Research in Biology	3
BIOL 35400	Cell Biology	4
BIOL 41100	Biology Seminar	0.5
BIOL 41200	Biology: Seminar	0.5
	Evolutionary Perspective: Select one of the following courses:	3-4
BIOL 22300	Biology of Oceanic Islands	
BIOL 22800	The Evolution of Adaptations	
BIOL 32400	Wonderful Life: Genes, Evolution, and Biodiversity	
BIOL 47800	Evolution	
	One course with Biology Elective attribute "BIEL" ¹	3-4
BIOL 44000	Inquiry and the Nature of Science for the Science Teacher	3
CHEMISTRY		
CHEM 12100 & CHEM 12200	Principles of Chemistry and Principles of Chemistry Laboratory	4
	or CHEM 12300 Principles of Chemistry - Enriched Section	
CHEM 12400	Experimental Chemistry I	2
CHEM 22100	Organic Chemistry I	3
LABORATORY SEQUENCE IN PHYSICS		
	Select one sequence from the following:	8

PHYS 10100 & PHYS 10200	Introduction to Physics I and Introduction to Physics II	
PHYS 11700 & PHYS 11800	Principles of Physics I: Mechanics and Principles of Physics II: Electricity and Magnetism	

ADDITIONAL REQUIREMENTS OUTSIDE THE DEPARTMENT		
EDUC 34100	Science, Technology, and Society	1
ENVS 23000	Earth System Science ²	4
MATH 14500	Statistics for the Health, Life, and Social Sciences	4
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 41010	Pedagogy and Practice for the Science 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	103-111

¹ It is recommended that the elective choice be discussed with your advisor to confirm that the course meets the current specifications toward NYSED certification. Note a course may only count once in a major, so if it is used to fulfill other major requirements it cannot be used again here.

² Although this course has a prerequisite, the Environmental Studies and Sciences department will waive the prerequisite for Biology with Teaching Option students.

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.

2. All teaching-option students must successfully complete a writing course numbered WRTG 10600 or above.
3. 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.
4. 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.
5. 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.
6. During the semester of student teaching, the student may not play a college sport.
7. 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).
8. The department chair and the coordinator of teacher education in the subject area must approve any exceptions to the above requirements.
9. 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.