

B.S. BIOLOGY ADOLESCENT EDUCATION

The State University of New York at Fredonia is committed to doing our part to provide each student a clear path to graduation. This four-year degree plan is a sample map for fulfilling requirements in the major, the College Core Curriculum (CCC), and other supporting courses. The pathway that you take to your degree may differ somewhat from this illustration, depending on where you start and the detours and side trips you may take along the way. If you are committed to completing your degree in four years, we encourage you to consider signing up for the Fredonia in 4 program. For complete information about this degree program, please consult the university catalog at fredonia.smartcatalogiq.com

FIRST YEAR					
Fall Semester			Spring Semester		
Course		Credits	Course		Credits
BIOL 131	Introductory Ecology and Evolution	3	BIOL 133	Introductory Cell and Molecular Biology	3
BIOL 132	Introductory Ecology and Evolution Lab	1	BIOL 134	Introductory Cell and Molecular Biology Lab	1
BIOL 100	Studying For Success	1	CHEM 116	General Chemistry Lecture II	3
CHEM 115	General Chemistry Lecture I	3	CHEM 126	General Chemistry Lab II	1
CHEM 125	General Chemistry Lab I	1	SCED 105	Nature of Science and Science Education	3
STAT 250	Statistics for Scientists	3	SCED 106	Field Experience	0
CCC	Basic Written Communication	3	CCC	Humanities	3
CCC	Foreign Language I	3	CCC	Foreign Language II	3
TOTAL		18	TOTAL		17

Biology

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 of New York at Fredonia**
 Fredonia, NY 14063

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SECOND YEAR					
Fall Semester			Spring Semester		
Course		Credits	Course		Credits
BIOL 237	Genetics	3	BIOL 243	Organismal Biology	3
BIOL 238	Genetics Lab	1	BIOL 244	Organismal Biology Lab	1
CHEM 215	Organic Chemistry Lecture I	3	CHEM 216	Organic Chemistry Lecture II	3
CHEM 225	Organic Chemistry Lab I	1	CHEM 226	Organic Chemistry Lab II	1
EDU 224	Adolescent Development	3	SCED 276	Literacy & Technology for Science & Math	3
EDU 250	Introduction to the Exceptional Learner	3	CCC	Social Science	3
EDU 251	Field Placement	0	CCC	American History	3
TOTAL		14	TOTAL		17

The B.S. Biology Adolescent Education degree prepares students to teach Biology to middle and high school students, and leads to New York State certification. While at Fredonia, degree candidates take courses in Biology and Education. Education courses include field experiences in local public schools and the final semester is spent as a student teacher in two different schools.

THIRD YEAR					
Fall Semester			Spring Semester		
Course		Credits	Course		Credits
BIOL 330	Ecology	3		BIOL Elective (300-400 Level)	3
BIOL 331	Ecology Lab	1	PHYS 122	Physics II	3
BIOL 333	Biochemistry	3	PHYS 124	Physics Lab II	1
BIOL 334	Biochemistry Lab	1	SCED 305	Diversity in the Teaching of Science & Math	3
EDU 301	Child Abuse/Abduction Prevention	1	SCED 313	Field Experience	0
EDU 302	Alcohol/Tobacco/Drug Abuse	1	CCC	Western Civilization	3
EDU 303	SAVE/DASA/Fire and Arson	1	CCC	Art	3
EDU 349	Educational Psychology	3			
PHYS 121	Physics I	3			
PHYS 123	Physics Lab I	1			
TOTAL		18	TOTAL		16

FOURTH YEAR					
Fall Semester			Spring Semester		
Course		Credits	Course		Credits
BIOL 421	Biological Conservation	3	EDU 430	Student Teaching	15
BIOL 431	Senior Seminar	1	SCED 303	Assessment for Inquiry-Based Science	3
SCED 419	Adolescence Science Methods	3			
	BIOL Elective (300-400 Level)	3			
	BIOL Elective (300-400 Level)	3			
CCC	Other World Civilizations	3			
TOTAL		16	TOTAL		18
2016-2017			GRAND TOTAL		134

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Why Study Teacher Education at Fredonia?

Education is a field of study that deals with the methods of teaching and learning in schools.

Begin your career path on Day 1

- You can declare a major and enroll in education classes right away.
- You'll receive field placements every semester, starting as a freshman — all the way until your senior year student teaching placement.
- Fredonia's Office of Field Experiences makes sure you're always on track, providing you feedback every step of the way.

Becoming 'classroom ready' makes you marketable

- 96% of Fredonia graduates from the Class of 2014 report being employed in their field of study or pursuing an advanced degree.
- You'll complete at least three field-based experiences in schools with a cooperating teacher prior to student teaching, and work as an instructional assistant in a classroom.
- Placements are available in more than 180 schools in nearly 60 districts. You can even student teach in New York City.

What can you do with a degree in Education?

- Teach in public and private schools or community colleges.
- Serve as a superintendent or other administrator at school districts.
- Become an educator with museums, zoos and other cultural entities.
- Work as education writers/beat reporters for newspapers and other publications.
- Become a staff trainer for employees at companies of all sizes.
- Become a marketing representative or writer for an educational text book company.



Exceptional professors

- You're taught by faculty who aren't just academics — they're experienced P-12 teachers.
- Fredonia's faculty remain active in local school districts by volunteering in classrooms and working with teachers on curricular and instructional innovations.
- Many courses are taught onsite in local schools.
- Fredonia's classes are typically fewer than 25 students, giving you plenty of contact with professors who challenge you as you grow and give you valuable support and feedback.

Awards and Scholarships

- Fredonia has nearly 30 awards and scholarships available exclusively for Education majors. Students can apply to as many as are appropriate in any given year.

Accomplished Education alumni

- Thousands of teachers, superintendents and other school administrators are proud Fredonia graduates — in every state, and countries around the world — providing you with a powerful, influential network of alumni throughout your career.

You're ready for the challenge.
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