

B.S. PHYSICS ADOLESCENCE 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
CHEM 115	General Chemistry I	3	CHEM 116	General Chemistry II	3
CHEM 125	General Chemistry Lab I	1	CHEM 126	General Chemistry Lab II	1
MATH 122	University Calculus I	4	MATH 123	University Calculus II	4
ENGL 100	English Composition	3	PHYS 230	University Physics I	4
PHYS 199	Freshman Seminar	1	PHYS 232	University Physics Lab I	1
CCC	Social Science	3	SCED 105	Intro. to Contemporary Education	3
			SCED 106	Field Experience	0
		TOTAL			15
					16

Physics

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 @fredonia.edu
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SECOND YEAR					
Fall Semester			Spring Semester		
Course		Credits	Course		Credits
MATH 223	University Calculus III	4	MATH 224	Differential Equations	3
PHYS 231	University Physics II	4	CSIT 106	Scientific Programming Using C/C++ OR	3
PHYS 233	University Physics Lab II	1	CSIT 121	Computer Science	
EDU 224	Adolescent Development	3	SCED 276	Literacy & Technology for Sci. & Math.	3
EDU 250	Introduction to the Exceptional Learner	3	PHYS 330	Thermodynamics	3
EDU 301	Child Abuse/Abduction Prevention	1	PHYS 234	Modern Physics	4
		TOTAL			16
					16

The B.S. Physics Adolescence**Education** degree focuses

on the study of natural phenomena. Its centrality and emphasis on problem solving makes an undergraduate degree in physics an excellent beginning for diverse careers well beyond the discipline, such as in engineering, biophysics, technical business, patent law, medicine, and radiation therapy to name a few.

THIRD YEAR					
Fall Semester			Spring Semester		
Course		Credits	Course		Credits
PHYS 431	Quantum Mechanics	3	PHYS 340	Optics	3
PHYS 425	Mathematical Physics I	3	PHYS 341	Optics Lab	1
PHYS 331	Theoretical Mechanics OR	3	PHYS Major Elective/Requirement		3
PHYS 333	Electricity and Magnetism		CCC	Foreign Language	3
SCED 305	Diversity in the Teaching of Sci. & Math.	3	EDU 302	Alcohol/Tobacco/Drug Abuse	1
SCED 313	Field Experience	0	EDU 303	SAVE/DASA/Fire and Arson	1
EDU 349	Educational Psychology	3	CCC	Other World Civilization	3
			PHYS 400	Seminar	1
		TOTAL			15
					16

FOURTH YEAR					
Fall Semester			Spring Semester		
Course		Credits	Course		Credits
SCED 419	Adolescence Science Methods	3	EDU 430	Student Teaching	15
	PHYS Major Elective	3	SCED 303	Assessment Inquiry	3
CCC	Humanities	3			
CCC	Art	3			
CCC	American History	3			
CCC	Western Civilization	3			
		TOTAL			18
					18
2016-2017			GRAND TOTAL		130

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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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