

ADOLESCENCE EDUCATION WITH DISCIPLINARY CONCENTRATIONS (7-12), BS

Leading to Certification in NY: Biology, Chemistry, English, Physics, Mathematics, Social Studies, Spanish

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The major in Adolescence Education is designed for students to pursue initial secondary content-specific teacher certification in New York State (grades 7-12). The major, in collaboration with the departments within the School of Arts and Sciences, prepares students to be secondary teachers in biology, chemistry, English, mathematics, physics, social studies and Spanish. Students in this major will become experts in their chosen content area in addition to learning learner characteristics, instructional design, classroom management, pedagogy, and assessment in their education courses. The major requires a two-day-a-week internship during the spring semester of the junior year and a semester of full-time student teaching. The student teaching semester is generally in the fall of the senior year, but accommodations can be made for spring student teaching when necessary. Upon completion of this program, the student will be recommended for certification in New York State. If you are seeking certification outside of New York, our EPPC office will support you through that process.

Code	Title	Credits
Education Coursework		40
EDUC-101	SOCIAL FOUNDATIONS OF AMERICAN EDUCATION: A CURRENT ISSUES APPROACH	
SPED-440	ADAPTIONS & INSTRUCTION FOR SPECIAL NEEDS STUDENTS	
EDUC-499	SENIOR SEMINAR:CURRENT ISSUES, ASSESSMENT & REFLECTION	
ADED-208	DESIGNING AND DELIVERING INSTRUCTION	
ADED-208L	INSTRUCTIONAL DESIGN FOR ALL LEARNERS	
ADED-250	ADOLESCENT DEVELOPMENT & LEARNING	
ADED-306	MANAGING INTRUCTION/BEHAVIOR IN SEC ED	
ADED-330	METHODS, MODELS, MANAGEMENT OF INSTRUCTION	
ADED-354	PROBLEMS OF LITERACY IN SEC SCHOOLS	
ADED-360	LITERACY IN THE CONTENT AREA	
ADED-406	EVALUATING LEARNERS & LEARNING	
Select one of the following:		
ADED-333	SECONDARY ENGLISH METHODS	
ADED-337	SECONDARY L.O.T.E. METHODS	
ADED-338	SECONDARY SOCIAL STUDIES METHODS	
ADED-340	SECONDARY MATH METHODS	
ADED-341	SECONDARY SCIENCE METHODS	
Foreign Language		6
General Education Requirements (https://catalog.sbu.edu/undergraduate/degree-requirements/)¹		37

General Electives (varies by concentration)		9-18
Disciplinary Concentration²		30
EDUC-099A	SAFE SCHOOLS WORKSHOP	0
EDUC-099B	CHILD ABUSE PREVENTION	0
EDUC-099D	CULTURAL DIVERSITY WORKSHOP	0
EDUC-099F	Harassment, Bullying, Cyberbullying & Di	0
Total Credits		122-131

¹ Some required education and disciplinary concentration courses will count toward General Education Requirements. General electives are needed when a major/disciplinary concentration course is also fulfilling one of the General Education Distributions.

² Disciplinary concentrations may require greater 30 credits. See concentration requirements below.

You must complete one course with diversity (D) coding and one writing intensive course (W). These courses need to be additional course, but can be ones that also fill another requirement.

Content Coursework for Disciplinary Concentrations

Minimum of 30 credits in concentrations. Choose one of the following:

Biology Concentration (56 credits)

Code	Title	Credits
BIO-105 & BIOL-105	BIOLOGICAL SCIENCE I and BIOLOGICAL SCI. I LAB	4
BIO-106 & BIOL-106	BIOLOGICAL SCIENCE II and BIOLOGICAL SCI. II LAB	4
BIO-291	GENETICS	3
BIO-292	CELL BIOLOGY	3
BIOL-293	GENETICS/CELL BIO LABORATORY	1
BIO Electives		15
CHEM-101 & CHML-101	GENERAL CHEMISTRY I and GEN CHEM I LAB	4
CHEM-102 & CHML-102	GENERAL CHEMISTRY II and GEN CHEM II LAB	4
CHEM-301 & CHML-301	ORGANIC CHEMISTRY I and ORGANIC CHEM I LAB	4
MATH-151	CALCULUS I	4
MATH-117	INTRODUCTION TO STATISTICS FOR NATURAL SCIENCE MAJORS	3
PHYS-103 & PHYL-103	GENERAL PHYSICS I and GENERAL PHYSICS I LAB	4
General Elective: Earth Science		3
Total Credits		56

Chemistry Concentration (56 credits)

Code	Title	Credits
CHEM-101 & CHML-101	GENERAL CHEMISTRY I and GEN CHEM I LAB	4
CHEM-102 & CHML-102	GENERAL CHEMISTRY II and GEN CHEM II LAB	4
CHEM-201 & CHML-201	ANALYTICAL CHEMISTRY and ANALYTICAL CHEM. LAB	4

CHEM-301 & CHML-301	ORGANIC CHEMISTRY I and ORGANIC CHEM I LAB	4
CHEM-302	ORGANIC CHEMISTRY II	3
CHEM-401 & CHML-401	PHYSICAL CHEMISTRY I and PHYSICAL CHEM I LAB	4
CHEM-441	ADVANCED INORGANIC CHEMISTRY	3
CHEM Electives		7
MATH-151	CALCULUS I	4
MATH-152	CALCULUS II	4
PHYS-103 & PHYL-103	GENERAL PHYSICS I and GENERAL PHYSICS I LAB	4
PHYS-104 & PHYL-104	GENERAL PHYSICS II and GENERAL PHYSICS LAB II	4
General Elective: Earth Science		3
General Elective: Biology		4
Total Credits		56

English Concentration (33 credits)

Code	Title	Credits
ENG-203	ENGLISH LITERATURE I	3
ENG-204	ENGLISH LITERATURE II	3
ENG-220	AMERICAN LITERATURE I	3
ENG-221	AMERICAN LITERATURE II	3
ENG Elective		15
ENG-250 or ENG-260 or ENG-325	ADV ORAL & WRITTEN COMM. PROFESSIONAL COMMUNICATION WRITING IN DIGITAL ENVIRONMENTS	3
History		3
Total Credits		33

History Concentration (36 credits)

Code	Title	Credits
HIST-101	EUROPE TO 1815	3
HIST-102	EUROPE SINCE 1815	3
HIST-300	Hist. Meth. & Historiography	3
HIST-201	U.S. HISTORY TO 1865	3
HIST-202	U.S. HISTORY SINCE 1865	3
HIST-419	DIGITAL HISTORY & ARCHIVAL PRACTICES	3
HIST Elective		3
HIST Elective: World History		3
HIST Elective: Geography		3
HIST Elective: Political Science		3
HIST Elective: Economics		3
HIST-492	ADVANCED HIST READING PROGRAM	3
Total Credits		36

Physics Concentration (58 credits)

Code	Title	Credits
PHYS-103 & PHYL-103	GENERAL PHYSICS I and GENERAL PHYSICS I LAB	4
PHYS-104 & PHYL-104	GENERAL PHYSICS II and GENERAL PHYSICS LAB II	4
PHYS-201	THEORETICAL MECHANICS	3

PHYS-203	MODERN PHYSICS	3
PHYS-301	ELECTRICITY & MAGNETISM I	3
PHYS-302	ELECTRICITY & MAGNETISM II	3
PHYS-304	THERMODYNAMICS	3
PHYS Elective		6
PHSC-106	STARS AND STELLAR SYSTEMS	3
CHEM-101 & CHML-101	GENERAL CHEMISTRY I and GEN CHEM I LAB	4
MATH-151	CALCULUS I	4
MATH-152	CALCULUS II	4
MATH-251	CALCULUS III	4
MATH-252	ORDINARY DIFFERENTIAL EQUATIONS	3
General Elective: Earth Science		3
General Elective: Biology		4
Total Credits		58

Mathematics Concentration (41 credits)

Code	Title	Credits
MATH-151	CALCULUS I	4
MATH-152	CALCULUS II	4
MATH-251	CALCULUS III	4
MATH-207	DISCRETE MATHEMATICS I	3
MATH-208	DISCRETE MATHEMATICS II	3
MATH-341	ABSTRACT ALGEBRA I	3
MATH-351	INTRODUCTION TO REAL ANALYSIS I	3
MATH-241	LINEAR ALGEBRA	3
MATH Electives ¹		9
MATH-492	SENIOR COMPREHENSIVE PROJECT	1
CS-130 & CSL-130 or ENGR-220	INTRODUCTION TO PROGRAMMING IN PYTHON and INTRO TO PROGRAMMING IN PYTHON LAB INTRODUCTION TO MATLAB	3-4
Total Credits		40-41

¹ It is strongly suggested that the 3 electives be MATH-312, MATH-322, and MATH-323 as the state strongly recommends these topics for teachers. However, they can be any **upper level elective (300 or 400 level)**, or MATH-252.

Spanish Concentration (42 credits)

Code	Title	Credits
SPAN Elective		3
SPAN Elective		3
SPAN Elective		3
SPAN Elective		3
SPAN Elective		3
Second Foreign Language		3
Second Foreign Language		3
SPAN Elective		3
SPAN Elective		3
SPAN Elective		3
SPAN Elective		3
SPAN Elective		3
Second Foreign Language		3

Second Foreign Language	3
Total Credits	42

Clinical Experiences

Clinical experience is a critical component of preparation to become an expert teacher. Students enrolled in the major in Secondary Education are supported in clinical experiences including observation and tutoring hours, a semester-long 50-hour clinical experience, and student teaching.

Plan of Studies for Disciplinary Concentrations

Minimum of 30 credits in concentrations. Choose one of the following:

Biology Concentration (56 credits), Chemistry Concentration (56 credits), Mathematics Concentration (41 credits) or Physics Concentration (58 credits)

First Year			
Fall	Credits	Spring	Credits
BONA-101	3	ENG-102	3
EDUC-101	3	PHIL-104	3
ENG-101	3	Historical Studies Distribution	3
Disciplinary Concentration Course	3	Literature & the VPA Distribution	3
Quantitative Literacy Distribution	3	THFS-101	3
		15	15

Second Year			
Fall	Credits	Spring	Credits
Disciplinary Concentration Course	3	ADED-250	3
SPED-445	4	Disciplinary Concentration Course	3
ADED-208L	0	Foreign Language	3
Philosophy Distribution	3	Disciplinary Concentration Course	3
Foreign Language	3	General Elective	3
General Elective	3		
EDUC-099A	0		
EDUC-099B	0		
EDUC-099F	0		
		16	15

Third Year			
Fall	Credits	Spring	Credits
Disciplinary Concentration Course	3	Disciplinary Concentration Course	3
ADED-354	3	EDUC-099D	0
Disciplinary Concentration Course	3	ADED-306	3
Disciplinary Concentration Course	3	ADED-330	2
General Elective	3	ADED-333, 337, 338, 340, or 341 (One of the disciplinary methods courses)	1
		ADED-360	3
		ADED-406	3
		15	15

Fourth Year			
Fall	Credits	Spring	Credits
Franciscan Studies/Theology Distribution	3	STUDENT TEACHING	
Disciplinary Concentration Course	3	EDUC-499	3
Natural Science w/Lab Distribution	4	ADED-495	5
General Elective	3	ADED-496	5
General Elective	3		
		16	13

Total Credits 120

Notes:

1. Clinical block courses must be taken together in the same semester.
2. No additional courses may be taken during student teaching semester except the required EDUC-499.

English Concentration (33 credits), History Concentration (36 credits), Spanish Concentration (42 credits)

First Year			
Fall	Credits	Spring	Credits
BONA-101	3	ENG-102	3
EDUC-101	3	PHIL-104	3
ENG-101	3	Historical Studies Distribution	3
Disciplinary Concentration Course	3	Literature & the VPA Distribution	3
Quantitative Literacy Distribution	3	THFS-101	3
		15	15

Second Year			
Fall	Credits	Spring	Credits
Disciplinary Concentration Course	3	SPED-440	3
ADED-208	3	ADED-250	3
ADED-208L	0	Disciplinary Concentration Course	3
Philosophy Distribution	3	Foreign Language	3
Foreign Language	3	General Elective	3
General Elective	3	General Elective	3
EDUC-099A	0		
EDUC-099B	0		
EDUC-099F	0		
		15	18

Third Year			
Fall	Credits	Spring	Credits
Disciplinary Concentration Course	3	Disciplinary Concentration Course	3
ADED-354	3	EDUC-099D	0
Disciplinary Concentration Course	3	ADED-306	3
Disciplinary Concentration Course	3	ADED-330	2
General Elective	3	ADED-333, 337, 338, 340, or 341 (One of the disciplinary methods courses)	1
		ADED-360	3
		ADED-406	3
		15	15

Fourth Year			
Fall	Credits	Spring	Credits
Student Teaching		Franciscan Studies/Theology Distribution	3
EDUC-499	3	Disciplinary Concentration Course	3
ADED-495	5	Natural Science w/Lab Distribution	4
ADED-496	5	General Elective	3
		General Elective	3
		13	16

Total Credits 122

Notes:

1. Clinical block courses must be taken together in the same semester.
2. No additional courses may be taken during student teaching semester except the required EDUC-499.