

MATHEMATICS ADOLESCENCE EDUCATION, BS

Department Chair: Maureen P. Cox, Ph.D.

This program is designed to prepare graduates to teach in secondary education institutions having mastered content area and having met the academic requirements for teacher certification.

This program enables students to obtain initial certification in Adolescence Education in Mathematics. Student complete a mathematics major especially tailored to the New York State Adolescence Education requirements for mathematics while also completing all of the courses required for initial teaching certification.

Formal admission to the School of Education's adolescence education (ADED) certification program (for junior year field block approval) is granted provided a student meets the following qualifications:

- GPA of 3.0 in the academic major
- GPA of at least 2.5 in all courses in biology
- Cumulative GPA of 3.0 or better
- Grades of C (2.0) or better in two writing courses.

Requirements for graduation include

- Cumulative GPA of 3.0
- GPA of 3.0 in all education courses (including SPED courses)
- Minimum GPA of 2.5 in the disciplinary concentration.

Students complete 140 hours of field block experience, during which they apply classroom knowledge with supervised experience in classrooms, as well as student teaching requirements.

Code	Title	Credits
Mathematics		37
MATH-151	CALCULUS I	
MATH-152	CALCULUS II	
MATH-207	DISCRETE MATHEMATICS I	
MATH-208	DISCRETE MATHEMATICS II	
MATH-241	LINEAR ALGEBRA	
MATH-251	CALCULUS III	
MATH-341	ABSTRACT ALGEBRA I	
MATH-351	INTRODUCTION TO REAL ANALYSIS I	
MATH-492	SENIOR COMPREHENSIVE PROJECT	
<i>9 credits of MATH electives numbered 252 or higher¹</i>		
Computer Science		8
CS-131 & CSL-131	COMPUTER SCIENCE I and COMPUTER SCIENCE I LAB	
CS-132 & CSL-132	COMPUTER SCIENCE II and COMPUTER SCIENCE II LAB	
Education		38
EDUC-101	SOCIAL FOUNDATIONS OF AMERICAN EDUCATION: A CURRENT ISSUES APPROACH	
SPED-445	INSTRUCTIONAL STRATEGIES FOR MATH & SCIENCE IN INCLUSIVE SECONDARY EDUCATION	
EDUC-208L	INSTRUCTIONAL DESIGN FOR ALL LEARNERS	

EDUC-250	ADOLESCENT DEVELOPMENT & LEARNING	
EDUC-306	MANAGING INSTRUCTION/BEHAVIOR IN SEC ED	
EDUC-330	METHODS, MODELS, MANAGEMENT OF INSTRUCTION	
EDUC-354	PROBLEMS OF LITERACY IN SEC SCHOOLS	
EDUC-360	LITERACY IN THE CONTENT AREA	
EDUC-406	EVALUATING LEARNERS & LEARNING	
EDUC-495	SEC.STUD.TEACHING:GRADES 7-9	
EDUC-495A	SR SEM: PROF ASSESSMENT & REFLECTION	
EDUC-496	SEC STUD TEACH:GRADES 10-12	
EDUC-340	SECONDARY MATH METHODS	
<i>Workshops</i>		
EDUC-099A	SAFE SCHOOLS WORKSHOP	
EDUC-099B	CHILD ABUSE PREVENTION	
EDUC-099D	CULTURAL DIVERSITY WORKSHOP	
EDUC-099F	Harassment, Bullying, Cyberbullying & Di	
EDUC-099K	EXPERIENCE IN DIVERSE ENVIRONMENTS	
Foreign Language²		3
General Education Requirements (https://catalog.sbu.edu/undergraduate/degree-requirements/)		37
Total Credits		123

- ¹ Classes must be at the 252 level or higher, and not already taken as part of the major sequence.
- ² The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.

First Year			
Fall	Credits	Spring	Credits
MATH-151		4 MATH-152	4
ENG-101	3	MATH-207	3
SBU-101	2	Foreign Language 202 ¹	3
Foreign Language 201 ¹	3	SBU-102	1
EDUC-101	3	CS-131 & CSL-131	4
		ENG-102	3
			15
			18
Second Year			
Fall	Credits	Spring	Credits
MATH-251	4	MATH-241	3
CS-132 & CSL-132	4	THFS-101	3
MATH-208	3	PHIL-104	3
SPED-445	4	General Education	3
EDUC-099A	0	EDUC-250	3
EDUC-099B	0		
EDUC-099F	0		
			15
			15
Third Year			
Fall	Credits	Spring	Credits
MATH-341	3	MATH Elective	3
General Education Science with Lab	4	EDUC-406	3
General Education	3	EDUC-306	3
EDUC-354	3	EDUC-330	2
General Education	3	EDUC-340	1
		EDUC-360	3
			16
			15

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Fourth Year

Fall	Credits	Spring	Credits
MATH-351	3	EDUC-495	5
MATH Elective	3	EDUC-496	5
MATH-492	1	EDUC-495A	3
MATH Elective	3	EDUC-099D	0
General Education	3		
General Education	3		
	16		13

Total Credits 123