

MATHEMATICS, BS

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	
Nine credits of mathematics electives numbered 252 or higher.		
Computer Science		7-8
CS-131	OBJECT ORIENTED PROGRAMMING	
Select one of the following:		
CS-132	ALGORITHMS & DATA STRUCTURES or ENGR-220INTRODUCTION TO MATLAB	
Foreign Language ²		3
General Education Requirements (https://catalog.sbu.edu/undergraduate/degree-requirements/) ³		37
Electives		36-37
Total Credits		120-122

¹ The student should choose the nine credits of mathematics electives in consultation with his or her adviser to complement the student's career goals. In particular, a student interested in secondary education certification must use MATH-312, MATH-322, and MATH-323 as the electives in order to be prepared for the certification examinations.

² The foreign language must be at level 202 or higher. Students not prepared to begin at this level will need to take additional courses in language, which will be counted as general electives.

³ THFS-101 is highly recommended in the first two years. MATH-151 satisfies the Quantitative Literacy Distribution for the General Education Requirement.

The Senior Comprehensive Requirement

During the student's senior year (or earlier), a student majoring in mathematics will ask a faculty member to act as the mentor for their Senior Comprehensive Project. The student may make this request of any faculty member. The student and faculty member will work together to select a topic related to an upper-level mathematics course that the student has taken or is currently taking as the subject for the project. This topic should delve into material beyond the scope of the course. Under the guidance of the faculty mentor, the student will develop this topic to produce a paper. The student will then give a talk, based on that paper, to the department faculty, other math majors, and any additional interested parties. The student should register for MATH-492. Senior Comprehensive Project for their graduation semester.

First Year			
Fall	Credits	Spring	Credits
MATH-151	4	MATH-152	4
BONA-101	3	MATH-207	3
ENG-101	3	CS-131	4

General Education Requirement	3	ENG-102	3
Foreign Language ¹ /General Elective	3	Foreign Language ¹ /General Elective	3
		16	17
Second Year			
Fall	Credits	Spring	Credits
MATH-251	4	MATH-241	3
CS-132 or ENGR 220	3-4	General Electives	6
MATH-208	3	General Education Requirements	6
General Education Requirements	3		
		13-14	15
Third Year			
Fall	Credits	Spring	Credits
MATH-341 or 351	3	Mathematics Elective	3
General Education Requirements	7	General Education Requirements	6
General Elective	6	General Electives	6
		16	15
Fourth Year			
Fall	Credits	Spring	Credits
MATH-351 or 341	3	MATH-492	1
Mathematics Elective	3	Mathematics Elective	3
General Electives	9	General Electives	9
		15	13
Total Credits 120-121			

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