

B.S. Mathematics

The Bachelor of Science program in Mathematics is designed to prepare students to take positions in industry, to pursue graduate training, or to enter the teaching profession. It allows some flexibility in course work which necessitates close cooperation with a mathematics department advisor who should be selected early in the student's career.

Program Admissions Requirements

There are no program admission requirements for the Bachelor of Science in Mathematics.

General Education

The listing below includes program requirements that also fulfill General Education requirements.

Code	Title	Credits
Objective 1		6
Objective 2		3
Objective 3 - MATH 1170		4
Objective 4		6
Objective 5		7
Objective 6		6
Students must fulfill Objective 7 or Objective 8		3
Objective 7 - CS 1181		
Objective 8		
Objective 9		3
Total Credits		38

Major Requirements

Code	Title	Credits
Mathematics Core		
CS 1181	Computer Science and Programming I (Satisfies General Education Objective 7) ¹	3
MATH 1170	Calculus I (Satisfies General Education Objective 3)	4
MATH 1175	Calculus II	4
MATH 2275	Calculus III	4
MATH 2240	Linear Algebra	3
MATH 3326	Elementary Analysis	3
Other Required Courses		
MATH 2287	Foundations of Mathematics	3
MATH 3360	Differential Equations	3
MATH 4407	Modern Algebra I	3
MATH 4423	Introduction to Real Analysis I	3
Choose two of the following:		6
MATH 3327	Vector Analysis	
MATH 3335	Elementary Number Theory	
MATH 3343	Modern Geometry	
MATH 3352	Introduction to Probability	
MATH 3362	Introduction to Complex Variables	

Choose 9 credits of 4000-level coursework from the Department of Mathematics and Statistics. 9

Total Credits 48

Degree Totals

Code	Title	Credits
	Program Admission Requirements	0
	General Education	38
	Major Requirements (Required General Education credits removed.)	41
	Upper Division Free Electives	9
	Free Electives	32
Total Credits		120

¹ Students may take both ME 1165 Structured Programming and ME 2266 Symbolic Programming instead of CS 1181.

ISU Degree Requirements (<https://coursecat.isu.edu/undergraduate/degree requirements/>)

ISU General Education (<https://coursecat.isu.edu/undergraduate/academic information/generaleducation/>)

Major Academic Plan (MAP) (<https://www.isu.edu/advising/maps/>)