

B.S. Statistics

The Bachelor of Science program in Statistics is designed to prepare students to take positions in industry or pursue graduate training.

Program Admissions Requirements

There are no program admission requirements for the Bachelors of Science in Statistics

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	
	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 3350	Statistical Methods	3
MATH 3352	Introduction to Probability	3
MATH 4450	Mathematical Statistics I	3
MATH 4451	Mathematical Statistics II	3
MATH 4457	Applied Regression Analysis	3
MATH 4459	Applied Multivariate Analysis	3
	Choose 9 credits from the following: ²	9
	MATH 3360	Differential Equations
	MATH 4406	Advanced Linear Algebra
	MATH 4423	Introduction to Real Analysis I
	MATH 4424	Introduction to Real Analysis II
	MATH 4441	Introduction to Numerical Analysis I
	MATH 4442	Introduction to Numerical Analysis II

MATH 4453	Topics in Statistics	
MATH 4458	Experimental Design	
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	6
	Free Electives	35
	Total Credits	120

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

² With departmental approval, 3 of the 9 credits may be completed by taking an appropriate advanced course (4000-level) in another field such as Biology, Economics, etc. Examples include: ECON 4485 Econometrics or PHYS 4408 Error Analysis for the Physical Sciences. Please work with your advisor if you wish to choose a course from another field.

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

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

Major Academic Plan (MAP)