

# 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		3
Objective 4		6
Objective 5		7
Objective 6		6
<b>Students must fulfill Objective 7 or Objective 8</b>		<b>3</b>
Objective 7		
Objective 8		
Objective 9		3
Total Credits		37

## Major Requirements

Code	Title	Credits
<b>Mathematics Core</b>		
CS 1181	Computer Science and Programming I (Satisfies General Education Objective 7) <sup>1</sup>	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
<b>Other Required Courses</b>		
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 4458	Experimental Design	3
<b>Choose 9 credits from the following: <sup>2</sup></b>		
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 4459	Applied Multivariate Analysis

## Degree Totals

Code	Title	Credits
Program Admission Requirements		0
General Education		38
Major Requirements (Required General Education credits removed.)		41
Upper Division Free Electives		18
Free Electives		23
Total Credits		120

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

<sup>2</sup> 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 (<http://coursecat.isu.edu/undergraduate/degree requirements/>)

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

Major Academic Plan (MAP)