

# STATISTICS, MINOR (SCIENCE)

Requirements for a minor may be completed at any campus location offering the specified courses for the minor. Students may not change from a campus that offers their major to a campus that does not offer their major for the purpose of completing a minor.

## Program Description

The Statistics minor introduces students to the quantitative aspects of research. Understanding statistics is useful for research in many areas including agriculture, business, education, social science and sciences as well as many jobs in industry and government.

## What is Statistics?

Statistics is the field study of that uses mathematics, computing, and analysis, to organize and understand data. Statisticians use critical and abstract thinking through the application of mathematical principles to statistical problems, and combine modeling with computational skills to analyze data.

## You Might Like This Program If...

- You enjoy working with numbers and data.
- You are interested in statistics, but do not want to take the full major.
- You want to complement the skills in your major.

## Program Requirements

Requirement	Credits
Requirements for the Minor	24-26

### Requirements for the Minor

A grade of C or better is required for all courses in the minor, as specified by Senate Policy 59-10 (<https://senate.psu.edu/students/policies-and-rules-for-undergraduate-students/59-00-minors-and-certificates/>). In addition, at least six credits of the minor must be unique from the prescribed courses required by a student’s major(s).

Code	Title	Credits
<b>Prescribed Courses</b>		
<i>Prescribed Courses: Require a grade of C or better</i>		
MATH 140	Calculus With Analytic Geometry I	4
MATH 141	Calculus with Analytic Geometry II	4
<b>Additional Courses</b>		
<i>Additional Courses: Require a grade of C or better</i>		
Select two of the following:		6
STAT 301		
STAT 318	Elementary Probability	
STAT 319	Elementary Mathematical Statistics	
STAT 401	Experimental Methods	
STAT 414	Introduction to Probability Theory	
STAT 415	Introduction to Mathematical Statistics	
Select 10-12 credits from 400-level STAT courses <sup>1</sup>		10-12

- STAT 401
- STAT 414
- STAT 415
- STAT 418

Some course may require other coursework as some courses have prerequisites.

## Academic Advising

The objectives of the university's academic advising program are to help advisees identify and achieve their academic goals, to promote their intellectual discovery, and to encourage students to take advantage of both in-and out-of class educational opportunities in order that they become self-directed learners and decision makers.

Both advisers and advisees share responsibility for making the advising relationship succeed. By encouraging their advisees to become engaged in their education, to meet their educational goals, and to develop the habit of learning, advisers assume a significant educational role. The advisee's unit of enrollment will provide each advisee with a primary academic adviser, the information needed to plan the chosen program of study, and referrals to other specialized resources.

READ SENATE POLICY 32-00: ADVISING POLICY (<https://senate.psu.edu/students/policies-and-rules-for-undergraduate-students/32-00-advising-policy/>)

### University Park

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### Contact

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<https://science.psu.edu/stat> (<https://science.psu.edu/stat/>)

<sup>1</sup> Not including: