

# STATISTICS, MINOR

consult with their academic program regarding final certifications and requirements for graduation.

The aim of statistical modeling is to empower effective decision making, and the field's unique contribution is its ability to incorporate multiple levels of uncertainty in the framing of wise decisions. Over the last few years, the development of new computational tools and the unprecedented evolution of "big data" have propelled statistical modeling to new levels. Today, statistical modeling and machine learning have reached a level of impact that no large organization can afford to ignore. The information landscape is changing as it has never changed before.

Students interested in this minor must have the prior approval of the Statistics Undergraduate Program Director to develop a curriculum for the minor that is appropriate for their interests. Wharton students are **not eligible** for this minor.

**For more information:** <https://statistics.wharton.upenn.edu/programs/undergraduate/statistics-minor/>

## Statistics, Minor

**This minor is for students outside of Wharton. Single-degree and dual-degree students with Wharton may pursue a statistics concentration instead.**

Code	Title	Course Units
<b>Pre-Requisites <sup>1</sup></b>		
MATH 114	Calculus, Part II	1
or MATH 115	Calculus, Part II with Probability and Matrices	
Select one of the following:		2
STAT 101 & STAT 102	Introductory Business Statistics and Introductory Business Statistics	
STAT 111 & STAT 112	Introductory Statistics and Introductory Statistics	
STAT 430 & STAT 431	Probability and Statistical Inference	
ESE 301 & ESE 302	Engineering Probability and Engineering Applications of Statistics	
<b>Core Course</b>		
STAT 430	Probability	1
<b>Electives</b>		
Select 2 course units of STAT courses		2
Select 1 course unit of STAT or other approved course		1
Additional Elective <sup>2</sup>		
Total Course Units		7

<sup>1</sup> The statistics prerequisite may also be satisfied with 2 course units of Economic Statistics, such as ECON 103 and 104. These students do not need to take any other introductory courses, but they must take all upper-level course from within the Statistics Department.

<sup>2</sup> Since STAT 430 Probability is also a core course, students who complete STAT 430 Probability and STAT 431 Statistical Inference as an introductory sequence must complete four additional electives for the minor.

The degree and major requirements displayed are intended as a guide for students entering in the Fall of 2018 and later. Students should