

STATISTICS, MINOR

Statisticians specialize in the collection, organization, presentation, and analysis of data. They work with professionals from a variety of fields to leverage data to inform almost every aspect of society and life: business practice, scientific research, finance, and public policy, among other areas. In 2022, “Statistician” is one of the top three jobs in the world based on income, stress level, quality of life, and growth potential, and the field has a projected growth of 35% (careercast.com)!

The Department of Mathematics and Statistics minor in statistics will give you both a good theoretical grounding in statistics as well as a broad understanding of applied statistics through project-based coursework. You will learn multiple computer-based platforms for completing statistical tasks, including Microsoft Excel, R, SAS, and Python. We will provide you with ample opportunities to work on research projects, and we will encourage you to present your research at SRU’s undergraduate symposium and at professional conferences. Because of the amount of experience our students gain working with different statistical software packages, completing analysis projects, and engaging in research, our students are sought after both for internships while they are completing their undergraduate studies and entry-level positions for statistics and data science.

To access Minor Requirements, please view the Curriculum Guide tab.

Related Links

Statistics, Minor Program Page ([https://www.sru.edu/academics/majors-and-minors/statistics-\(minor/\)](https://www.sru.edu/academics/majors-and-minors/statistics-(minor/)))

Mathematics and Statistics Department Page (<https://www.sru.edu/academics/colleges-and-departments/ches/departments/mathematics-and-statistics/>)

Professional Licensure/Certification Page (<https://www.sru.edu/students/student-consumer-information/professional-licensures/>)

Curriculum Guide

GPA Requirement

Minor GPA: 2.0 or higher

Minor Requirements

- Students must complete at least 9 credit hours of MATH/STAT in their minor from SRU.
- Students enrolled in both the Minor in Mathematics and the Minor in Statistics must complete at least 9 credits in each of these minors that are NOT being counted in the other.
- Students enrolled in both the Minor in Actuarial Science and the Minor in Statistics must complete at least 9 credits in each these minors that are NOT being counted in the other.
- Mathematics majors must choose at least 15 credit hours in this minor distinct from those being counted toward the major.
- A minimum of 6 credit hours must be upper division (courses numbered 300 and above)
- A minor shall be no fewer than 18 credits.

Code	Title	Hours
Required Courses		
STAT 152	Elementary Statistics I	3

STAT 252	Introduction to Statistical Modeling	3
STAT 256	Statistical Computing	3
STAT 352	Mathematical Statistics I	3
STAT 353	Mathematical Statistics II	3

Required Courses for Non-Mathematics Majors

Mathematics majors may not count these courses in the Minor in Statistics:

MATH 225	Calculus I
MATH 230	Calculus II

Electives

Select courses of the following to reach 24 credits total for this minor: *

BIOL 325	Biostatistics and Experimental Design with Lab	3-9
CPSC 323	Fundamentals of Database Systems	
CPSC 405	Data Mining and Data Analysis	
CPSC 480	Topics in Computer Science: Machine Learning	
ECON 318	Introduction to Econometrics	
HLTH 312	Data Management for Health Science	
HLTH 313	Biostatistics	
MATH 231	Calculus III	
STAT 318	Statistical Study Design	
STAT 354	Mathematical Statistics III	
STAT 363	Statistical Learning	
STAT 372	Forecasting & Time Series	
STAT 373	Statistical Quality Control	
PSYC 421	Advanced Behavioral Statistics	

Total Hours **24**

* Some courses may require pre-requisites. Please see course descriptions to determine if there are any pre-requisites for that specific course.

Important Curriculum Guide Notes

This Curriculum Guide is provided to help SRU students and prospective students better understand their intended major curriculum. Enrolled SRU students should note that the My Rock Audit may place already-earned and/or in progress courses in different, yet valid, curriculum categories. Enrolled SRU students should use the My Rock Audit Report and materials and information provided by their faculty advisers to ensure accurate progress towards degree completion. *The information on this guide is current as of the date listed. Students are responsible for curriculum requirements at the time of enrollment at the University.*

PASSHE - Pennsylvania State System of Higher Education Institutions

Minor in Statistics (52D)

This program is effective as of Summer 2022

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