

# STATISTICS MINOR

## Banner Code: STIC

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The minor in Statistics provides students with a background in the theory and application of statistical methodology. It is intended to complement undergraduate degree programs in the Volgenau School and the College of Science, especially those programs that require MATH 113 Analytic Geometry and Calculus I (Mason Core), MATH 114 Analytic Geometry and Calculus II, and STAT 344 Probability and Statistics for Engineers and Scientists I as a part of the major requirements.

## Admissions & Policies

### Admissions

To be admitted to the minor, students must have completed MATH 113 Analytic Geometry and Calculus I (Mason Core) and MATH 114 Analytic Geometry and Calculus II with a grade of C or better.

### Policies

The minor in Statistics requires 15 credit hours of coursework. Grades of C or better are required in all courses. At least 8 credits must be in courses not required by the student's major. For policies governing all minors, see AP.5.3.4 Minors.

## Requirements

### Minor Requirements

Total credits: 15

#### Core Requirements

Code	Title	Credits
STAT 344	Probability and Statistics for Engineers and Scientists I <sup>1,2</sup>	3
STAT 354	Probability and Statistics for Engineers and Scientists II <sup>2</sup>	3
STAT 362	Introduction to Computer Statistical Packages	3
STAT 456	Applied Regression Analysis	3
Total Credits		12

<sup>1</sup> STAT 346 Probability for Engineers and a course in statistics, such as STAT 250 Introductory Statistics I (Mason Core), can be substituted for the STAT 344 Probability and Statistics for Engineers and Scientists I core requirement.

<sup>2</sup> Students enrolled in the Mathematics, BS may substitute MATH 351 Probability and MATH 352 Statistics for STAT 344 Probability and Statistics for Engineers and Scientists I and STAT 354 Probability and Statistics for Engineers and Scientists II.

#### Elective Requirement

Code	Title	Credits
Select one from the following:		3
STAT 455	Experimental Design	
STAT 460	Introduction to Biostatistics	
STAT 462	Applied Multivariate Statistics	
STAT 463	Introduction to Exploratory Data Analysis	
STAT 465	Nonparametric Statistics and Categorical Data Analysis	
STAT 472	Introduction to Statistical Learning	
STAT 474	Introduction to Survey Sampling	
Total Credits		3