

CORNELL UNIVERSITY
Department of Statistics and Data Science
Requirements for a Minor in Biometry and Statistics

9/22/20

The Minor:

A minor in biometry and statistics is available to all undergraduate students. To complete the program, students must submit a minor program of study form. Each student will retain a copy of the form and will be responsible for planning the minor program of study in conjunction with the advisor in the student's major and an SDS faculty advisor. Students and advisors in other departments should contact the director of undergraduate studies in the Department of Statistics and Data Science if they have general questions about Biometry and Statistics courses or the minor. An SDS faculty member will supervise and assist each minor in course selection.

Requirements for the minor:

- *Calculus I*
- [MATH 1110 - Calculus I](#)

- *Calculus II*
- [MATH 1120 - Calculus II](#) or
- [MATH 1220 - Theoretical Calculus II](#) or
- [MATH 1910 - Calculus for Engineers](#)

- *Multivariable Calculus*
- [MATH 1920 - Multivariable Calculus for Engineers](#) or
- [MATH 2220 - Multivariable Calculus](#)

- *Statistical Methods I*
- [BTRY 3010 - Biological Statistics I](#) (crosslisted) or
- [BTRY 6010 - Statistical Methods I](#) (crosslisted) or
- [Equivalent courses listed on the Statistics and Data Science website](#)

- *Statistical Methods II*
- [BTRY 3020 - Biological Statistics II](#) (crosslisted) or
- [BTRY 6020 - Statistical Methods II](#)

- *Probability*
- [BTRY 3080 - Probability Models and Inference](#) (crosslisted)

Note:

Students must take three additional courses from the statistical methods course list given below. (Linear Algebra, [BTRY 4030 - Linear Models with Matrices](#), [BTRY 4090 - Theory of Statistics](#) and [BTRY 4520 - Statistical Computing](#) can also be counted towards this requirement.)

Only courses for which the student receives a grade of C– or better will count toward the minor in biometry and statistics. Courses taken with the S/U option will not count towards the minor.

Statistical Methods:

- [BTRY 3090 - Theory of Interest](#) (crosslisted)
- [BTRY 3100 - Statistical Sampling](#) (crosslisted)
- [STSCI 3510 - Introduction to Engineering Stochastic Processes I](#) (crosslisted)
- [STSCI 4060 - Python Programming and its Applications in Statistics](#)
- [BTRY 4100 - Multivariate Analysis](#) (crosslisted)
- [BTRY 4110 - Categorical Data](#) (crosslisted)
- [BTRY 4140 - Applied Design](#) (crosslisted)
- [BTRY 4270 - Introduction to Survival Analysis](#) (crosslisted)
- [BTRY 4381 - Biomedical Data Mining and Modeling](#)
- [STSCI 4550 - Applied Time Series Analysis](#) (crosslisted)
- [STSCI 4740 - Data Mining and Machine Learning](#)
- [STSCI 4780 - Bayesian Data Analysis: Principles and Practice](#)
- [STSCI 5640 - Statistics for Financial Engineering](#) (crosslisted)
- [ECON 4110 - Cross Section and Panel Econometrics](#)
- [BTRY 4820 - Statistical Genomics: Coalescent Theory and Human Population Genomics](#)
- [BTRY 4830 - Quantitative Genomics and Genetics](#)
- [BTRY 4840 - Computational Genetics and Genomics](#) (crosslisted)
- [NTRES 6700 - Spatial Statistics](#)
- [ORIE 4741 - Learning with Big Messy Data](#)

The minor requirements can be found at

<https://cals.cornell.edu/education/degrees-programs/biometry-statistics-major-and-minor>

Submit your completed application to the Program Assistant at biom-stat@cornell.edu

CORNELL UNIVERSITY
Department of Statistics and Data Science
Application for a Minor in Biometry and Statistics

Student's Name: _____ Major: _____

Local Address: _____

Permanent Home Address: _____

Local/Cell Phone: _____ Email: _____

Major Advisor's
Name: _____ Department: _____

Signature: _____ Date: _____

Required Courses*

Grade

Semester

- | | | |
|---|-------|-------|
| • BTRY 3010, Biological Statistics I
or BTRY 6010, Statistical Methods I | _____ | _____ |
| • BTRY 3020, Biological Statistics II
or BTRY 6020, Statistical Methods II | _____ | _____ |
| • BTRY 3080, Probability Models and Inference | _____ | _____ |
| • MATH 1110, Calculus I | _____ | _____ |
| • MATH 1120 or 1220 or 1910, Calculus II | _____ | _____ |
| • MATH 1920, 2130 or 2220: Multivariable Calculus | _____ | _____ |

Elective Courses:*

_____	_____	_____
_____	_____	_____
_____	_____	_____

Total Credit Hours: _____

**Only courses for which a grade of C- or better is received will count toward the minor in Biometry and Statistics. Courses taken with the S/U option will not count toward the minor.*

SDS Faculty Advisor Signature: _____ **Date:** _____

Signature indicates that the student's SDS faculty advisor has approved this course of study.