

CORNELL UNIVERSITY
Department of Biological Statistics and Computational Biology

Requirements for a Minor in Biometry and Statistics

7/1/2008

DESCRIPTION OF THE MINOR

The Minor in Biometry and Statistics is designed to provide students with basic knowledge of statistical techniques and the mathematics necessary to understand and use them. The Minor consists of at least **31 credit hours**; students must take the following required courses and one elective course:

Required courses [each course is 4 cr.]

BTRY 3010, Biological Statistics I
or BTRY 6010, Statistical Methods I

BTRY 3020, Biological Statistics II
or BTRY 6020, Statistical Methods II

BTRY 4080, Theory of Probability
BTRY 4090, Theory of Statistics

MATH 1110, Calculus I

MATH 1120 or 1220 or 1910, Calculus II

MATH 1920 or 2130, Multivariable Calculus

or MATH 2210-2220 or MATH 2230-2240,
Linear Algebra and Multivariable Calculus

Elective courses

BTRY 3100 / ILRST 3100, Statistical Sampling [3 cr.]

BTRY 4820, Statistical Genomics [4 cr.]

BTRY 4950, Statistical Consulting [3 cr.]

BTRY 6030 / ILRST 4110, Statistical Methods III [3 cr.]

BTRY 6040, Statistical Methods IV: Applied Experiment
Design [4 cr.]

BTRY 6520, Computationally Intensive Statistical
Inference [4 cr.]

ILRST 4100, Techniques of Multivariate Analysis [3 cr.]

ILRST 4110, Statistical Analysis of Qualitative Data [3 cr.]

ILRST 6140, Structural Equations w/ Latent Variables
[3 cr.]

NTRES 6700, Spatial Statistics [3 cr.]

APPLYING FOR THE MINOR

1. Check the minor requirements on the Department of Biological Statistics and Computational Biology (BSCB) website at **<http://www.bscb.cornell.edu/minor.php>**.
2. Obtain the application for the minor from the main office of the Department of BSCB in 1198 Comstock Hall or download it from the website. Complete the personal information section and as much course information as possible.
3. Submit the form to the BSCB main office. Retain a copy for your records and give a copy to your faculty advisor in your major.
4. Within two weeks, you will be notified which BSCB faculty member will serve as the supervising faculty advisor for your Biometry and Statistics Minor. You must meet with your BSCB advisor before the beginning of the second semester of your junior year.
5. Plan a course of study to complete the Biometry and Statistics Minor requirements. Select required courses and an elective course that best suit your interests. If you need assistance in planning, contact your supervising BSCB faculty advisor. Address any questions to your supervising BSCB faculty advisor, the Undergraduate Program Assistant, or the Director of Undergraduate Studies.
6. Keeping track of progress in meeting requirements is the student's responsibility. If your course choices change, update your form at the BSCB main office. If the change creates any doubt about meeting the requirements of the minor, confirm its acceptability with your supervising BSCB faculty advisor. Students must earn a grade of C or better in each course used for the minor.
7. Bring your Application to Graduate to the BSCB main office by the end of the first week of your final semester. Upon verification that the required courses have been completed successfully, a designated representative of the Department of BSCB will sign your Application to Graduate, certifying the minor.

Contact Information: Professor Steven Schwager, *Director of Undergraduate Studies*, sjs5@cornell.edu
Carly Ferguson, *Program Assistant*, ctf8@cornell.edu

CORNELL UNIVERSITY
Department of Biological Statistics and Computational Biology
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: _____

<u>Required Courses*</u>	<u>Grade</u>	<u>Semester</u>
• <input type="checkbox"/> BTRY 3010, Biological Statistics I [4 cr.] or <input type="checkbox"/> BTRY 6010, Statistical Methods I [4 cr.]	_____	_____
• <input type="checkbox"/> BTRY 3020, Biological Statistics II [4 cr.] or <input type="checkbox"/> BTRY 6020, Statistical Methods II [4 cr.]	_____	_____
• BTRY 4080, Theory of Probability [4 cr.]	_____	_____
• BTRY 4090, Theory of Statistics [4 cr.]	_____	_____
• MATH 1110, Calculus I [4 cr.]	_____	_____
• MATH <input type="checkbox"/> 1120 or <input type="checkbox"/> 1220 or <input type="checkbox"/> 1910, Calculus II [4 cr.]	_____	_____
• MATH <input type="checkbox"/> 1920 or <input type="checkbox"/> 2130, Multivariable Calculus [4 cr.] or <input type="checkbox"/> MATH 2210-2220 or <input type="checkbox"/> MATH 2230-2240, Linear Algebra and Multivariable Calculus [4 cr. each course]	_____	_____

Elective Course:*

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.*

BSCB Faculty Advisor Signature: _____ **Date:** _____

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

To receive credit for a Minor in Biometry and Statistics:

1. Submit a copy of this form to the BSCB Undergraduate Program Assistant in 1198 Comstock Hall. Retain a copy for your records and give your major advisor a copy for your file.
2. Complete the required courses, meeting with your BSCB faculty advisor as required.
3. By the end of the first week of your final semester, bring your Application to Graduate to the BSCB main office, **1198 Comstock Hall**. Upon verification of completion of the required courses, a designated representative of the Department of BSCB will sign the form to certify the minor.