STATISTICS (BA OR BS)

The Department of Statistics offers work leading to degrees in theoretical and applied statistics.

The Department offers both Bachelor of Science and Bachelor of Arts degrees in Statistics and Mathematics-Statistics. The latter is offered jointly with the Mathematics Department.

The Statistics major requires 24 credits at the 2000 level or above in statistics, including:

Course	Title	Credits
STAT 3115Q	Analysis of Experiments [1]	3
STAT 3375Q	Introduction to Mathematical Statistics I [2]	3
STAT 3445	Introduction to Mathematical Statistics II	3
STAT 3675Q	Statistical Computing	4
Additional 2000-level and above STAT courses [3]		11
Total Credits		**24**

[1] Students who have taken STAT 3215Q Applied Linear Regression in Data Science instead of the required STAT 3115Q Analysis of Experiments must additionally take STAT 3515Q Design of Experiments.

[2] Since STAT 3375Q Introduction to Mathematical Statistics I has MATH 2110Q Multivariable Calculus or MATH 2130Q as a prerequisite, students should begin the calculus sequence as soon as possible.

[3] A maximum of three credits from each of STAT 4190 Field Study Internship, STAT 4299 Independent Study and STAT 4389 Undergraduate Research may count toward the 24-credit requirement.

In addition, at least 12 credits at the 2000-level or above in approved related areas are required. MATH 2210Q Applied Linear Algebra or MATH 3210 Abstract Linear Algebra is strongly recommended and can count towards the related credits.

Students without mathematical background who wish to acquire some skill in statistical methodology should take STAT 1100Q Elementary Concepts of Statistics followed by STAT 2215Q Introduction to Statistics II. Students interested in the statistical analysis of business and economic data should take STAT 1000Q Introduction to Statistics I followed by STAT 2215Q Introduction to Statistics II. Students with the appropriate calculus prerequisite should take STAT 3025Q Statistical Methods Statistical Methods rather than STAT 1000Q Introduction to Statistics I or STAT 1100Q Elementary Concepts of Statistics and STAT 2215Q Introduction to Statistics II. STAT 3115Q Analysis of Experiments and STAT 3515Q Design of Experiments are appropriate continuations for each of these three introductory sequences. STAT 3025Q Statistical Methods is recommended before STAT 3375Q Introduction to Mathematical Statistics I and STAT 3445 Introduction to Mathematical Statistics II.

To satisfy the information literacy competency and writing in the major requirement, statistics majors must take STAT 3494W Undergraduate Seminar, which does not count towards the 24 required major credits in Statistics, nor the 40 required major credits in Mathematics-Statistics.

Mathematics-Statistics (BA or BS)

The requirements for the B.S. or B.A. in Mathematics-Statistics degree are 40 credits at the 2000 level or above in Mathematics and Statistics, with at least 12 credits in each department.

The required courses for the Mathematics-Statistics major are:

Course	Title	Credits
Select one of the following:		4
MATH 2110Q	Multivariable Calculus	
MATH 2130Q		
MATH 2143Q	Advanced Calculus III	
Select one of the following:		3-8
MATH 2210Q or MATH 3210	Applied Linear Algebra Abstract Linear Algebra	
MATH 2143Q & MATH 2144Q	Advanced Calculus III and Advanced Calculus IV	
Select one of the following:		3
MATH 2410Q	Elementary Differential Equations	
MATH 2420Q		
MATH 2144Q	Advanced Calculus IV	
STAT 3375Q & STAT 3445	Introduction to Mathematical Statistics I and Introduction to Mathematical Statistics II	6

To satisfy the Writing in the Major and Information Literacy competencies, all students must pass one of the following courses:

Course	Title	Credits
MATH 2705W	Technical Writing in Mathematics	1
MATH 2710W	Transition to Advanced Mathematics	3
MATH 2720W	History of Mathematics	3
MATH 2794W	Mathematics Writing Seminar	2
MATH 3670W	Technical Writing for Actuaries	3
MATH 3710W	Introduction to Mathematical Modeling	3
MATH 3796W	Senior Thesis in Mathematics	3
STAT 3494W	Undergraduate Seminar	1

University General Education Requirements

Every student must meet a set of core requirements to earn a baccalaureate degree, in addition to those required by the student's major course of study and other requirements set by the student's school or college. For more information about these requirements, please see General Education Requirements (https://catalog.uconn.edu/undergraduate/gen-ed-requirements/).

College of Liberal Arts and Sciences Degree Requirements

Students must meet a set of requirements established by the college in addition to the University's General Education requirements. For more information, see the College of Liberal Arts and Sciences (https://catalog.uconn.edu/undergraduate/liberal-arts-sciences/#requirementstext) section of this catalog.