

The minor in statistics consists of **five** units:

(A) Foundation in probability theory: STAT 220/MATH 220

(B) Foundation in computing: CS 111, 112, or 115

(C) Foundation in modeling: either STAT 260/QR 260 or STAT 318

*(The modeling course must be taken at Wellesley)*

(D) Two electives from the following list, including **at least one STAT elective**:

Introductory Statistics:

*At most one introductory statistics course can count toward the minor. See “Entry Points” below for guidance.*

STAT 218           Introductory Statistics and Data Analysis

BISC 198           Statistics in the Biosciences

ECON 103/SOC 190   Introduction to Probability and Statistical Methods

POL 299           Introduction to Research Methods in Political Science

PSYC 205           Statistics

QR 180            Statistical Analysis of Education Issues

STAT 101          Reasoning with Data: Elementary Applied Statistics

Statistical Theory:

STAT 221          Statistical Inference

Intermediate and Advanced Applied Statistics:

STAT 260/QR 260   Applied Data Analysis and Statistical Inference

STAT 309/QR 309   Causal Inference

STAT 318          Regression Analysis and Statistical Models

ECON 203          Econometrics

ECON 303          Advanced Econometrics

Other STAT courses when offered.

MIT Courses that Count Towards the Statistics Minor:

MIT 6.00 (Introduction to Computer Science and Programming) counts as CS 111

MIT 6.036 (Introduction to Machine Learning) counts as a 200-level elective

MIT 18.600 (Probability and Random Variables) counts as MATH/STAT 220

MIT 18.615 (Introduction to Stochastic Process) counts as a 300-level elective

MIT 18.655 (Mathematical Statistics) counts as a 300-level elective

The minor is open to students from any major, including mathematics, recognizing that no course may count toward both the major and the minor. Students whose majors overlap with these requirements should consult a statistics faculty advisor and a major advisor. A certificate from the Quantitative Analysis Institute Summer Program meets requirement (C), but does not count toward the five units for the statistics minor; students should take either STAT 318 from (C), or three courses from (D) instead of two with one more STAT course. A student may count both STAT 260/QR 260 and STAT 318, one toward the modeling requirement and the other as an elective. Note that MATH 205 is a prerequisite for STAT 220 but does not count toward the minor; other courses listed above similarly have prerequisites that cannot be counted.

### Entry Points:

- Students should complete calculus through MATH 205 in order to take STAT 220. Only STAT 221 requires 220 as a prerequisite.
- The computing requirement can be met at any time.
- A student who completes MATH 205 before taking any of the courses listed under (D) is encouraged to begin the applied courses with STAT 218.
- A student who completes an introductory statistics course other than STAT 218 can begin the applied courses with STAT 260.
- A student who completes a QR Overlay course other than introductory statistics may enroll in STAT 260 but is encouraged to complete MATH 205 early enough to begin with STAT 218.

### Sequence of Courses

