

VASSAR COLLEGE

Requirements for Mathematics and Statistics Majors

Beginning 2019-2020, those majoring in Mathematics and Statistics will follow the program pictured below.

Foundation Courses

Math 126/127 or its equivalent* (Calculus II)
Math 220 (Multivariable Calculus)
Math 221 (Linear Algebra)

*For example, AP credit for Calculus BC. If you have AP credit for Calculus AB, you should take Math 127. If you took Calculus in high school but did not take the AP exams, then you can obtain credit for the course through a test the department gives. Permission from the department to enroll in Math 220 is also advanced placement.

Gateway Courses

Two of Math 261 (Number Theory)
Math 228 (Methods of Applied Mathematics)
Math 240 (Introduction to Statistics)**

**or credit for AP Statistics

With an advisor, choose a pathway in the major.

Pathway in Core Mathematics

Math 321 (Real Analysis)
Math 361 (Modern Algebra)
plus three courses, two at the 300-level

Pathway in Mathematics with emphasis on applications

Math 321 (Real Analysis)
Math 315 (Advanced Topics in Applied Mathematics)
plus three courses, two at the 300-level

Pathway in Mathematics with emphasis on statistics

Math 241 (Probability)
Math 242 (Applied Statistical Modeling)
Math 341 (Statistical Inference)
plus two courses at the 300-level

Intensives

In the senior year, every major will complete at least one[†] intensive course.

[†]may be 0.5 or 1.0 unit.

Recommendations: The Department recommends that majors take a programming course in Computer Science. Students following pathways in applied mathematics and in statistics should take courses in related fields in which mathematics and statistics are applied.