

Core Statistics Courses

Placing out of some courses is possible! Talk to a Statistics professor to learn how to place out and learn if you need to take a substitute course to complete the major.

Intro Stats: STAT 111, **STAT 135**, or **STAT 136**

Note: It is **strongly recommended** that students interested in the Statistics major start with STAT 135 or 136, rather than STAT 111. STAT 135 has a pre-req of MATH 111 or equivalent.

Intermediate Statistics: STAT 230

Data Science: STAT 231

200 level course notes: Prospective majors are expected to take STAT 230 before declaring the major in statistics. STAT 230, STAT 231, and other electives may be taken in any order, provided appropriate pre-requisites are met.

Probability: STAT 360

Theoretical Statistics: STAT 370

Requires Math 121

Requires STAT 360

Plan carefully. STAT 495 has pre-requisites of STAT 370 (which requires STAT 360), STAT 230, STAT 231, and at least one COSC course. For study away, you may need to complete the 360/370 sequence in your second year. Talk to a Statistics professor to discuss planning and options!

Advanced Data Analysis: STAT 495

Taking STAT 495 satisfies the comprehensive evaluation requirement for the Statistics Major.

Required Mathematics Courses

Calc I: MATH 111

Calc II: MATH 121

Elective Courses

Electives: Majors must complete 4 elective courses. Many combinations of electives are possible. Discuss options that may work for you with a statistics professor. Each major must complete at least one statistics elective at the 200 or higher level (group A) and one computer science core course (group B). Students may select the remaining 2 electives from groups A, B, and C with the restriction that in total, they are allowed at most 2 electives from group B, and 1 elective from group C.

Intro to CS I: COSC 111

STAT 200+ elec.

Elective Group Information:

- (A) Statistics courses numbered 200 or above
- (B) Computer Science courses: COSC 111 (typical), COSC 112, COSC 211, COSC 311
- (C) An approved domain application course or a course from the pre-approved list (check online for more details and course list)

Majors are encouraged to include depth in an application area (e.g., sociology, psychology, or environmental science) as part of their course of study, and can petition for one of these courses to count in group C.

Students interested in honors in statistics should look for details about qualifying in their junior year and expect to complete two thesis courses in statistics their senior year, and one further course related to their thesis topic (though this can be before senior year), in addition to the usual major requirements.

Thesis-related course

Senior Honors: STAT 498

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