Amherst College Statistics Major Overview

**Computer Science Courses**

- Intro to CS I: Cosc 111
- Intro to CS II: Cosc 112

**Mathematics Courses**

- Calc I: Math 111
- Calc II: Math 121

**Statistics Courses**

- Introductory Statistics: Stat 111 or **Stat 135**
- Intermediate Statistics: Stat 230
- Data Science: Stat 231
- Stat 200+ elec.
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- Probability: Stat 360
- Theoretical Statistics: Stat 370
- Advanced Data Analysis: Stat 495

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

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.

**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-reqs are met.

Statistics majors are encouraged to ensure that their course of study includes depth in an application area (e.g., sociology, psychology, or environmental science).

**Plan carefully.** Stat 495 has pre-requisites of Stat 370 (which requires Stat 360), Stat 230, and the computing requirement. For study away, you may need to complete the 360/370 sequence in your second year. Talk to a statistics faculty member to discuss planning and options!

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, in addition to the usual major requirements.

**Thesis course**

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