Amherst College Statistics Major Overview

**Mathematics Background**
- Calc I: Math 111
- Calc II: Math 121
- Linear Algebra: Math 271 or 272

**Statistics Courses**
- Introductory Statistics: Stat 111 or **Stat 135**
- Intermediate Statistics: Stat 230
- Stat 200+ elec.
- Stat 200+ elec.

Note: It is **strongly recommended** that students interested in the Statistics major begin with Stat 135, rather than Stat 111.

**Computer Science Courses**
- Intro to CS I: Cosc 111
- Intro to CS II: Cosc 112

Students need two courses in Cosc to satisfy the computing requirement for the major. By default, this is Cosc 111 and 112.

**Plan carefully.** Stat 495 has pre-requisites of Stat 370 (which requires Stat 360, which in-turn requires Math 121), Stat 230, and the computing requirement (CS courses).

Prospective majors are expected to take Stat 230 before declaring the major in statistics.

Recently offered electives include:
- Statistical Communication
- Bayesian Statistics
- Multivariate Data Analysis
- Spatial Statistics
- Nonparametric Statistics

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

Honors Students should take Calc III: Math 211 to prepare for the honors qualifying exam, and will also take two thesis courses in statistics their senior year.

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.