Statistics Major Checklist

Name:
Year:

Students who declared the statistics major prior to May 3, 2019 may follow either the updated major guidelines (below) or the guidelines they declared under, which replaces the Data Science (STAT 231) requirement below with Linear Algebra (MATH 271 or 272). Majors under the prior guidelines may use STAT 231 as an elective course towards the major. Majors declared after May 3, 2019 must use the guidelines below. Please check here if using prior guidelines, and note the adjustment below*.

Math Background Courses: Must take or place out of each.

Math 111 ____  Math 121 ____  Total Math Background Courses: ____/2

Statistics Courses: Must take or place out of each.

Stat 111 ____  or Stat 135 ____
Stat 230 ____
Stat 231 ____  *or Math 271 or 272 ____ (only for those majors under prior guidelines)
Stat 360 ____
Stat 370 ____
Stat 495 ____ (pre-reqs: 230, 370, computing req)  Total Statistics Courses: ____/6

Elective Courses: Four additional courses are required to complete the statistics major.

(Computing Requirement) Two courses in Computer Science at the level of 111 or higher
   COSC 111 ____  COSC 112 ____  COSC ____  COSC ____

(Depth Requirement) Two Statistics electives 200+
   _____  _____
   OR other approved statistics electives (if not Amherst courses) _____  _____

   Total Elective Courses: ____/4

Placement: Students placing out of more than 3 courses must replace each such course beyond the third with additional courses approved by the Department.

# courses placed out of: _____  List of courses taken as replacements:

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

Chosen application area:

List of courses taken in application area:
**Course Planning** - Please use the semester outline below to help plan your progress through the major, in conjunction with your advisor. It is helpful to take notes about major events such as if you plan to study away, write a thesis (in Statistics or another major), etc. to craft a path that will work well for you.

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<th>Year</th>
<th>Fall Semester</th>
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**Honors Qualifying Status (Juniors):** Qualified Not Qualified

(Qualifying for honors does not satisfy the comprehensive evaluation in statistics.)

**Comprehensive Evaluation Status (Seniors):** Completed Not Completed

**Graduate School:** Students planning to attend graduate school in statistics are strongly advised to take MATH 211, MATH 271 or 272, MATH 355, and MATH 450 for more mathematical foundations, and additional courses with a focus on computation and algorithmic thinking.

**Double Majors:** Double majors in mathematics and statistics must complete a total of 20 courses (or 19, if statistics was declared prior to May 3, 2019). Math 111, Math 121, Math 271-or-272 (if required for their statistics major), and at most one other course (usually Math/Stat 360) can be counted towards both majors. Aside from this permitted overlap, statistics courses or computer science courses counted towards the statistics major may not also be counted towards the mathematics major. Double majors should fill out both major checklists and are encouraged to consult with faculty in the Department to verify that they have satisfied all requirements.