Mathematics and Statistics Double Major Checklist

Name: _____________________________
Year: _____________________________

Was Statistics Declared before May 7, 2016?    Yes    No

Math Background Courses: Must have all or have placed out.

Math 111 _____  Math 121 _____
Math 211 _____  Math 271 or 272 _____

Math Background Courses: ______/4

Statistics Courses: Must have all or have placed out.

Stat 111 or 135 _____  Stat 230 _____
Stat 360 _____  Stat 370 _____ (formerly Stat 430)
Stat 495 _____ (pre-reqs 230, 370, computing req)

Statistics Courses: ______/5

Mathematics Courses: Must have both or have placed out.

Math 350 _____  Math 355 _____

Math Courses: ______/2

Elective Courses for Statistics:
For class of 2016 and 2017 majors, and all others who declared statistics before May 7, 2016:
Two additional courses are required to complete the statistics major - one from each row below.

(Computing Requirement) Math 140 _____ OR Cosc 111 _____ OR another approved elective _____

(Depth Requirement) Any Stat elective 200+ _____ OR another approved statistics elective _____

Total Statistics Elective Courses: ______/2

For class of 2018 or later majors who declared statistics after May 7, 2016:
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 Statistics Elective Courses: ______/4

Elective Courses for Mathematics:
Four additional electives are required to complete both majors, as one course listed above, not in the background or mathematics courses sections, may be applied to the mathematics major (total 5 electives are required). By default, we count this course as Stat/Math 360: Probability.

Course being applied to mathematics major: __Stat/Math 360__

Two electives in mathematics are required, numbered 135 or higher.

Math _____  Math _____
Two additional electives are required which can be electives in math or courses from the approved list below.

\[ \text{Math } ____ \quad \text{Math } ____ \]

**Approved List:**

Computer Science:  Physics (any >= 116 except 227)  Philosophy  Economics  
COSC 201 ____  PHYS ____  PHIL 350 ____  ECON 300 ____  
COSC 301 ____  PHYS ____  ECON 301 ____  
COSC 401 ____  ECON 361 ____  
(Note that a COSC course cannot be used here if it is used for Statistics above)  ECON 420 ____

Students who declared a major in mathematics before May 17, 2014 may count a pre-requisite from an outside discipline in conjunction with a course on the approved list as their allowed two outside electives.

\[ \text{Check here if the math major was declared before May 17, 2014. } ______ \]

List pre-req here: ________________________  
**Total Mathematics Elective Courses:** _____/4

\[ \text{Overall Progression: } _____/17 (or 19) \]
\[ (19 \text{ for class of 2018+ who declared statistics after May 7, 2016}) \]

**Placement:**

List the courses you placed out of:

For the statistics major:
Statistics majors may place out of up to three courses without having to replace those courses. Students placing out of more than 3 courses must replace each course beyond the third placed out of with additional courses approved by the Department to complete the major.

For the mathematics major:
Beginning with the class of 2016, students placing out of Math 271/272, 350, or 355 must take an additional math elective for each of those courses they place out of.

**Mathematics Honors Qualifying Status:** Qualified  Not Qualified  
(qualifying for honors satisfies the comprehensive evaluation in mathematics)

**Mathematics Comprehensive Evaluation Status:** Completed  Not Completed

**Statistics Honors Qualifying Status:** Qualified  Not Qualified  
(qualifying for honors does not satisfy the comprehensive evaluation in statistics)

**Statistics Comprehensive Evaluation Status:** Completed  Not Completed

**Mathematics Honors Program Checklist:**
Math 345 ____  
Math 450 ____ OR Math 455 ____  
(Note these count as electives above).