

## UMBC UGC Program Changes & Other Request: Statistics Major

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Proposed Effective Date: retroactive

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### Specifics (see instructions):

Many courses at UMBC have been updated/changed since the upper level electives for Statistics majors was written, and this proposal addresses those changes by updating the set of courses that Statistics majors may take to satisfy the major requirements.

Statistics majors must take 9 upper level electives for their major, and 3-5 of them may be taken in other departments, from a specific list of appropriate classes.

Here is the current list of classes from other departments that count toward the major, with proposed changes in bold:

CMSC 201 or 202

CMSC 331

CMSC 341

ECON 421

ECON 422

ECON 423

IS 410

IS 420

IS 427

IS 444

**PSYC 331 -> PSYC 311**

**PSYC 332 -> PSYC 312**

SOCY 419

Here is the proposed list of classes from other departments that we would like to have count toward the major, with explanations beside each change:

CMSC 201 or 202

CMSC 331

CMSC 341

ECON 421

ECON 422

ECON 423

IS 410

IS 420

IS 427

IS 444

**PSYC 311** (Psych 331 has been retired, and Psyc 311 is the newer version of the course)

**PSYC 312** (Psych 332 has been retired, and Pysc 312 is the newer version of the course)

SOCY 419

In addition, there have been several new courses created within the Department of Mathematics and Statistics that we would like to have count toward a Statistics Major. Here is a current list of upper level Math and Stat courses that will count as an upper level elective for the Statistics major:

MATH 301  
MATH 302  
MATH 341  
MATH 381  
MATH 430  
MATH 441  
MATH 452  
STAT 405  
STAT 414  
STAT 417  
STAT 418  
STAT 419  
STAT 455  
STAT 432 + MATH 426  
STAT 496  
STAT 499

Here are the additional courses we would like to add to the list of available courses that can count toward a Statistics major:

MATH 355: Biomathematics

STAT 365: Financial Mathematics for Actuaries

**Rationale (see instructions):**

The list of courses that are available for Statistics majors to take and have count as upper level electives has not been updated in many years, and in that time there have been many changes in the course catalog. These changes mean the current list of upper level electives available for Stat majors is outdated. The proposed changes update the list to reflect courses that are currently available for students to take, and also reflect additional courses now available in our own department. There is no change to the total number of courses or credits required for the major, only to the list of courses that can count. The changes in other departments will not increase any student load for those departments, since the actual number of courses from each department has not changed.

Letter of support from the department of Psychology attached.

We would like these changes to be listed in the Fall 2018 catalog if possible.