

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

POLI 400 -> POLI 300

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

POLI 300 (Poli 400 is not listed in the course catalog and has been replaced with Poli 300 and Poli 301. Poli 300 is "Quantitative Analysis in Political Science" and is reasonable to count toward a major in Statistics).

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 Psyc 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 Political Science attached; letter of support from the department of Psychology to follow.

We would like these changes to take effect retroactively, and also to be listed in the Fall 2018 catalog if possible.