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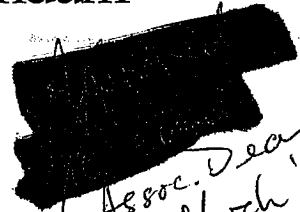
Department of Mathematics Memorandum

Date: 3/20/2007

To: Ian Evans, Associate Dean, NS&M

From: Charles Peters, Director of Undergraduate Studies

RE: Degree Program Changes



Assoc. Dean
21 March '07

APPROVED APR 18 2007

The Department of Mathematics seeks approval for the following catalog changes and program changes. Revised suggested programs which show 120 hours of requirements for both degrees are attached for inclusion in the next catalog.

1. MATH 4389: *Survey of Undergraduate Mathematics* will be a requirement for both the B.A. and B.S. degrees.
2. The number of hours in MATH at the 4000 level will increase from 9 to 12.
3. MATH 4320: *Introduction to Stochastic Processes* with MATH 4380: *A Mathematical Introduction to Options* will be recognized as a senior sequence.
4. The punctuation of the course sequence MATH 3396-4396: *Senior Research Project* will be changed to a semicolon. The course description is unchanged.

Mathematics requirements for the Bachelor of Arts and Bachelor of Science degree in Mathematics on p. 284 of the current Undergraduate Catalog should be changed to read as follows:

Students who choose to major in mathematics must complete the following requirements in addition to the special requirements for the Bachelor of Arts degree:

Requirements
Mathematics

Hours

At least 30 advanced semester hours in mathematics which must include:

MATH 3330, 3331, 3333, one of MATH 3334, 3335, or 3364, and MATH 4389

A minimum of 12 semester hours of 4000-level mathematics

One of the following sequences: MATH 4331-4332, 4335-4336, 4350-4351, 4364-4365, 4377-4378, 4320-4380.

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Students who choose to major in mathematics must complete the following requirements in addition to the special requirements for the Bachelor of Science degree:

Requirements

Hours

Mathematics

At least 30 advanced semester hours in mathematics which must include:

MATH 3330, 3331, 3333, one of MATH 3334, 3335, or 3364, and MATH 4389

A minimum of 12 semester hours of 4000-level mathematics

One of the following sequences: MATH 4331-4332, 4335-4336, 4350-4351, 4364-4365, 4377-4378, 4320-4380.

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**Bachelor of Arts in Mathematics
Suggested Program**

First Year

Fall Semester	Hours
MATH 1431	4
ENGL 1303	3
HIST 1376 or 1377	3
Foreign Language*	<u>5</u>
Total	15

Spring Semester	Hours
MATH 1432	4
ENGL 1304	3
HIST 1378 or 1379	3
Foreign Language*	<u>5</u>
Total	15

*If 1000 level foreign language is not a prerequisite, students may begin with 2000 level foreign language and choose elective courses to fulfill the required number of hours.

Second Year

Fall Semester	Hours
MATH 2433	4
MATH 2331	3
Natural Science*	3
Foreign Language	3
Social Science Core	<u>3</u>
Total	16

Spring Semester	Hours
MATH 3330	3
MATH 3331	3
Natural Science with lab*	4
Foreign Language	3
Writing Intensive Core	<u>3</u>
Total	16

*Must be approved for majors in the discipline.

Third Year

Fall Semester	Hours
MATH 3333	3
MATH Elective (3000 level)	3
POLS 1336	3
Electives*	4
Humanities Core	<u>3</u>
Total	16

*COSC 1410 is strongly recommended.

Spring Semester	Hours
MATH 3334, 3335, or 3364	3
MATH Elective (3000 or 4000 level)	3
POLS 1337	3
Visual and Performing Arts Core	3
Free Elective	<u>3</u>
Total	15

Fourth Year

Fall Semester	Hours
MATH Electives (4000 level)*	6
NSM Capstone**	3
Free Electives	<u>6</u>
Total	15

Spring Semester	Hours
MATH 4389	3
MATH Elective (4000 level)	3
NSM Capstone	3
Free Elective	<u>3</u>
Total	12

*Students must complete at least 12 hours of 4000-level MATH courses, which must include MATH 4389 and 6 hours approved as a Senior sequence.

** The NSM Capstone requirement may be met by completing a minor in another discipline, completing a Senior Honors Thesis, completing MATH 3396;4396: Senior Research Project, or by completing MATH 3396 and MATH 4389. Most students should plan on taking a minor.

**Bachelor of Science in Mathematics
Suggested Program**

First Year

Fall Semester	Hours
MATH 1431	4
ENGL 1303	3
HIST 1376 or 1377	3
Natural Science with lab*	<u>4</u>
Total	14

Spring Semester	Hours
MATH 1432	4
ENGL 1304	3
HIST 1378 or 1379	3
Social Science Core	3
Natural Science with lab*	<u>4</u>
Total	17

*Must be approved for majors in the discipline. Students must have two labs in the same subject.

Second Year

Fall Semester	Hours
MATH 2433	4
MATH 2331	3
POLS 1336	3
Natural Science*	3
Humanities Core	<u>3</u>
Total	16

Spring Semester	Hours
MATH 3330	3
MATH 3331	3
POLS 1337	3
Natural Science*	3
Writing Intensive Core	<u>3</u>
Total	15

*Must be approved for majors in the discipline.

Third Year

Fall Semester	Hours
MATH 3333	3
MATH Electives (3000 level)	3
COSC 1410	4
Visual and Performing Arts Core	3
Elective	<u>3</u>
Total	16

Spring Semester

Spring Semester	Hours
MATH 3334, 3335, or 3364	3
COSC 1320	3
MATH Elective (3000 or 4000 level)	3
Electives	<u>6</u>
Total	15

Fourth Year

Fall Semester	Hours
MATH Electives (4000 level)*	6
NSM Capstone **	3
Electives	<u>6</u>
Total	15

Spring Semester

Spring Semester	Hours
MATH 4389	3
MATH Elective (4000 level)	3
NSM Capstone	3
Elective	<u>3</u>
Total	12

*Students must complete at least 12 hours of 4000-level MATH courses, which must include MATH 4389 and 6 hours approved as a Senior sequence.

**The NSM Capstone requirement may be met by completing a minor in another discipline, completing a Senior Honors Thesis, completing MATH 3396;4396: Senior Research Project, or by completing MATH 3396 and MATH 4389. Most students should plan on taking a minor.