

BACHELOR OF SCIENCE MATHEMATICS

GENERAL EDUCATION REQUIREMENTS

Competencies

| | |
|--------------------------|-------------------------|
| <input type="checkbox"/> | ♦ Basic College Math |
| <input type="checkbox"/> | ♦ Reading Comprehension |

♣ General Education Categories (34-35 credits total)

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|------|------------------------------------|-----------------|--|--|-----|
| ♦FYS | First Year Seminar | | | | 3 |
| ♦W-I | Written Communication - Level I | | | | 3 |
| ♦OC | Oral Communication | | | | 3 |
| PGR | Personal Growth & Responsibility | | | | 3 |
| CEA | Creative Expression & Appreciation | | | | 3 |
| WC | World Cultures | | | | 3 |
| HP | The Human Past | | | | 3 |
| CS | Contemporary Society | | | | 3 |
| SR | Scientific Reasoning: | # Any SR course | | | 3-4 |
| | | # SR Lab course | | | 4 |
| QR | Quantitative Reasoning | | | | 3 |

‡ Written Communication (Level II and Level III) and Diversity, Power Dynamics and Social Justice

| | | | | | |
|-------|--|--|--|--|--------------------------|
| W-II | Written Communication - Level II | | | | <input type="checkbox"/> |
| W-III | Written Communication - Level III | | | | <input type="checkbox"/> |
| DPDS | Diversity, Power Dynamics and Social Justice | | | | <input type="checkbox"/> |

Free Electives/Minor (48 credits minimum)

May be necessary to take additional credits to attain the minimum 120 credits required for graduation depending on choices made for general education or minor selection.

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COURSES IN MAJOR (37 credits total)

Major Core Courses (28 credits)

| | | | | |
|-----|------|----------------------------------|---|--|
| MAT | 218 | Intro. to Mathematical Computing | 1 | |
| MAT | 220 | Calculus I | 4 | |
| MAT | 221 | Calculus II | 4 | |
| MAT | 234 | Intro. to Mathematical Proof | 3 | |
| MAT | 240 | Linear Algebra | 3 | |
| MAT | 303A | Abstract Algebra I | 3 | |
| MAT | 320 | Calculus III | 4 | |
| MAT | 411 | Real Analysis | 3 | |
| MAT | 490 | Senior Sem. In Mathematics | 3 | |

Major Electives (9 credits minimum)

(Three courses numbered above 300 with at most 3 credits from MAT572.)

| | | | | |
|-----|--|--|--|--|
| MAT | | | | |
| MAT | | | | |
| MAT | | | | |

(The above major courses must satisfy *one* of the following sequences.)

| | |
|-----------------------------------|----------------------|
| Algebra Sequence A | MAT 303A and MAT 306 |
| Algebra Sequence B | MAT 303A and MAT 403 |
| Analysis Sequence A | MAT 409 and MAT 411 |
| Analysis Sequence B | MAT 411 AND MAT412 |
| Discrete Mathematics Sequence | MAT 314 and MAT 316 |
| Geometry Sequence | MAT 406 and MAT 412 |
| Linear Algebra Sequence | MAT 240 and MAT 414 |
| Probability & Statistics Sequence | MAT 407 and MAT 417 |

Note: A course may count as both a major core course and as part of a sequence.

♥ Students may choose to use support courses to satisfy general education categories, but may not be required to do so. **Note:** If a course is used to satisfy two or more requirements (for example, a support course and Scientific Reasoning requirement), the credits are counted in only one place. Using a course to satisfy more than one requirement does **not** reduce the credit total required for graduation.

♣ Courses used to satisfy the general education requirements of the university must be taken from a minimum of six different academic disciplines. First Year Seminar and Level I Written Communications courses are exempt from this restriction. Courses may not be used to fulfill both major discipline and general education requirements.

‡ These Scientific Reasoning General Education Category courses do not have to be a sequence or be from the same discipline.

‡ Level II, Level III Written Communications and Diversity, Power Dynamics and Social Justice Courses may be used to satisfy requirements anywhere else in a student's program of study where they may apply. The credits are counted only in one area.

♦ COMPETENCIES - TO BE COMPLETED WITHIN THE FIRST 30 CREDITS

♦ GENERAL EDUCATION CATEGORIES - TO BE COMPLETED WITHIN THE FIRST 30 CREDITS

Exceptions in the timing of courses will be made for transfer students

Total credits for graduation: 120

Effective: 9/2018