

Name: _____
 Student ID: _____
 Date Admitted Into Major: _____

BACHELOR OF SCIENCE MATHEMATICS

GENERAL EDUCATION REQUIREMENTS

Competencies

♦ Basic College Math

♦ Reading Comprehension

General Education Categories (34-35 credits total)

| | | | | | |
|------|------------------------------------|-----------------|--|-----|--|
| ♦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)

| | | | | | |
|-------|-----------------------------------|--|--|--|--------------------------|
| W-II | Written Communication - Level II | | | | <input type="checkbox"/> |
| W-III | Written Communication - Level III | | | | <input type="checkbox"/> |

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 | 303A | Abstract Algebra I | 3 | |
| MAT | 304A | Linear Algebra | 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.)

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

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

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|-----------------------------------|------------------------|
| Algebra sequence | MAT303A, MAT306 or 403 |
| Analysis sequence | MAT409, MAT411 or 412 |
| Discrete Mathematics sequence | MAT314, MAT316 |
| Geometry sequence | MAT406, MAT412 |
| Probability & Statistics sequence | MAT407, MAT417 |

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

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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♥ 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 and Level III Written Communications 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.

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| ♦ COMPETENCIES - TO BE COMPLETED WITHIN THE FIRST 30 CREDITS | ♦ GENERAL EDUCATION CATEGORIES - TO BE COMPLETED WITHIN THE FIRST 30 CREDITS |
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Exceptions in the timing of courses will be made for transfer students

Total credits for graduation: 120

Effective: 9/2015

**COMBINED BACHELOR OF SCIENCE IN MATHEMATICS
AND
MASTER OF EDUCATION IN SECONDARY EDUCATION
WITH A MINOR IN TEACHER EDUCATION
MATHEMATICS
TEACHER LICENSURE FOR MATHEMATICS EDUCATION: GRADES 5-8 OR 8-12**

| GENERAL EDUCATION REQUIREMENTS | | | | |
|--|------------------------------------|---|--|--------------------------|
| Competencies | | | | |
| <input type="checkbox"/> ♦ Basic College Math | | | | |
| <input type="checkbox"/> ♦ Reading Comprehension | | | | |
| ◆ General Education Categories - 34-35 credits | | | | |
| ◆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) | | | | |
| W-II | Written Communication - Level II | | | <input type="checkbox"/> |
| W-III | Written Communication - Level III | | | <input type="checkbox"/> |
| ▼ Required Support Courses for the Teacher Education Minor | | | | |
| PSY | 252 | Adolescent Psychology | | 3 |
| HST | 204 | U.S. History and Constitutional Gov't I | | 3 |
| Minor (Teacher Education):* | | | | |
| Required (30 Credits; courses with asterisk carry graduate and undergraduate credit) | | | | |
| EDC | 115 | Exploring Education | | 3 |
| EDC | 404 | Intro to Teaching and Assessment | | 3 |
| EDC | 405 | Culturally Responsive Teaching | | 3 |
| EDC | 415 | Teaching Exceptional Learners | | 3 |
| EDC | 416 | Assessment Methods | | 3 |
| *EDC | 774 | Methods of Teaching Mathematics I | | 3 |
| *EDC | 760 | Adolescent Literacy in the Disciplines | | 3 |
| *EDC | 762 | Technology Methods | | 1.5 |
| *EDS | 775 | Methods of Teaching Mathematics II | | 3 |
| *EDS | 860 | Sheltering Content for ELLs | | 3 |
| *EDS | 763 | Classroom Mgmt and Community Bldg | | 1.5 |

| COURSES IN MAJOR (37 credits total) | | | | |
|--|--------------------|------------------------------------|--|---|
| Required (34 credits total) | | | | |
| 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 | 303A | Abstract Algebra | | 3 |
| MAT | 304A | Linear Algebra | | 3 |
| MAT | 320 | Calculus III | | 4 |
| MAT | 406 | Modern Geometry | | 3 |
| MAT | 407 | Probability and Math. Statistics I | | 3 |
| MAT | 411 | Real Analysis | | 3 |
| MAT | 490 | Senior Seminar | | 3 |
| Mathematical Sequence Elective (3 credits total) | | | | |
| One of the following: | | | | |
| MAT | 403 | Abstract Algebra II | | 3 |
| MAT | 409 | Complex Variables | | 3 |
| MAT | 412 | Topology | | 3 |
| MAT | 414 | Linear Algebra II | | 3 |
| MAT | 417 | Probability and Statistics II | | 3 |
| Free Electives | | | | |
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| 5th Year Courses (M.Ed.): (18 credits) | | | | |
| EDC | 884PS | Practicum Seminar Tchg Math | | 3 |
| EDC | 884P OR 885P | Stu Tchg Pract. Math (8-12) | | 3 |
| EDC | 885P | Stu Tchg Pract. Math (5--8) | | 3 |
| EDC | 804 | School-Based Internship | | 3 |
| EDC | 805 | Professional Lives of Teachers | | 3 |
| | | Elective | | 3 |
| | | Elective | | 3 |

▼ 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 and Level III Written Communications 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.
- * Students accepting into the combined undergraduate/graduate program who choose not to continue in the combined program must complete an educational studies minor in lieu of the teacher education minor.

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| ◆ 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

The additional credits listed above are required for Graduate graduation

Effective: 9/2015