

## Mathematics, Secondary Education (9-12) (B.A. or B.S.)

### FRESHMAN YEAR

|                        |   |
|------------------------|---|
| <b>Fall Semester</b>   | <b>16 Credits</b>                       |
| FYE 10XX               | First Year Experience (R/IL).....3      |
| ENGL 1100              | Writing I (W).....3                     |
| MATH 1300              | Precalculus (QR) <b>OR</b>              |
| MATH 2300              | Calculus I (QR).....4                   |
|                        | (Gen. Ed./ exploration).....3           |
|                        | (Gen. Ed./exploration).....3            |
| <b>Spring Semester</b> | <b>16 Credits</b>                       |
| ENGL 1200              | Writing II (W/IL).....3                 |
| SPCH 1000              | Intro to Speech Communication <b>OR</b> |
| SPCH 1100              | Arg. and Debate (WS).....3              |
| MATH 1860              | Intro to Education (5-12).....3         |
| MATH 2300              | Calculus I <b>OR</b>                    |
| MATH 2400              | Calculus II.....4                       |
| MATH 2550              | Symbolic Comp. Mathematics <b>OR</b>    |
|                        | (Gen. Ed./exploration).....3            |

### JUNIOR YEAR

|                        |                                    |
|------------------------|------------------------------------|
| <b>Fall Semester</b>   | <b>15 Credits</b>                  |
| MATH 4200              | Probability and Statistics I.....3 |
| MATH XXXX              | Math Elective*.....3               |
| SPED 3800              | Inclusive Instruction.....3        |
|                        | (Gen. Ed./exploration).....3       |
|                        | (Gen. Ed./exploration).....3       |
| <b>Spring Semester</b> | <b>15 Credits</b>                  |
| MATH 3900              | Math Seminar.....1                 |
| MATH 3000              | Geometry.....3                     |
|                        | Math Modeling Elective** <b>OR</b> |
|                        | Math Elective* .....3              |
| MATH 3010              | Methods of Teaching Math I.....3   |
| CSC 1500               | Computer Science I.....3           |
|                        | Free Elective.....2                |

**General Education: Foundation**

- 3 credits Reading and Information Literacy (R and IL): First Year Experience
- 3 credits Writing (W): Writing I
- 3 credits Writing and Information Literacy (W and IL): Writing II
- 3 credits Quantitative Reasoning (QR) (MATH)
- 3 credits World Languages, Speaking and Listening (WS)

**Suggested 4-year plan of study. Completion of 120 credits required for graduation.**

**General Education: Exploration**

- 3 credits Civic Learning (CV)
- 3 credits Diverse Perspectives (DP)
- 3 credits Ethical Reasoning (ER)
- 3 credits Fine Arts Expression and Analysis (FA)
- 3 credits Historical Inquiry and Analysis (HI)
- 3 credits Literary Inquiry and Analysis (LI)
- 3 credits Personal Wellness (PW)
- 3 credits Procedural and Logical Thinking (PL)
- 3 credits Scientific Inquiry and Analysis (SI)

### SOPHOMORE YEAR

|                        |   |
|------------------------|---|
| <b>Fall Semester</b>   | <b>15 or 16 Credits</b>                   |
| MATH 2400              | Calculus II <b>OR</b>                     |
|                        | (Gen.Ed./exploration).....3 or 4          |
| MATH 2500              | Intro. to Math Thought (PL).....3         |
| MATH 2600              | Linear Algebra.....3                      |
| EDUC 2011              | Diversity in Education (5-12).....3       |
|                        | (Gen. Ed./exploration).....3              |
| <b>Spring Semester</b> | <b>16 Credits</b>                         |
| MATH 3350              | Multivariate Calculus.....4               |
| MATH 2550              | Symbolic Comp. Mathematics <b>OR</b>      |
| MATH XXXX              | Math Elective*.....3                      |
| EDUC 2012              | Teaching Adolescent Learners (5-12).....3 |
|                        | (Gen. Ed./exploration).....3              |
|                        | (Gen. Ed./integration).....3              |

### SENIOR YEAR

|                        |  |
|------------------------|--|
| <b>Fall Semester</b>   | <b>15 Credits</b>                        |
| MATH 4300              | Abstract Algebra.....3                   |
|                        | Math Modeling Elective** <b>OR</b>       |
|                        | Math Elective* .....3                    |
| EDUC 3122              | Sheltered English Immersion.....3        |
| EDUC4850               | Methods of Teaching Math II.....3        |
|                        | Free Elective.....3                      |
| <b>Spring Semester</b> | <b>12 Credits</b>                        |
| MATH 4012              | Practicum Seminar.....3                  |
| MATH 4860/4870         | Practicum in Secondary School I & II...9 |

\* These math electives (including the modeling elective) must be at the 3000/4000 level with 6 credits required at the 4000 level

\*\* The Mathematical Modeling elective is one of MATH 3003, 3550, 4400 OR 4450.

**General Education: Integration**

9 credits AIA (3 of which must be Integrative High Impact Practice - IHIP) OR  
 Minor (professional majors completing a minor or second major must include at least 9 credits in LA&S disciplines for that minor)

**General Education: MAJ**

There may be major courses that have been approved to fulfill up to 3 General Education requirements (at least 9 credits). Varies by major and concentration.