

## B.A. Mathematics

Remaining schedule each semester will be filled with general education courses and electives.

\* = counts for general education requirement

\*\* = only applies to candidates seeking secondary certification

\*\*\* = does not apply to candidates seeking secondary certification

<b>Freshman</b>			
<b>Fall</b>	<b>Hours</b>	<b>Spring</b>	<b>Hours</b>
FYE 1001 First Year Experience	1	ENGL 1023 Writing Studies II* (1A)	3
ENGL 1013 Writing Studies I* (1A)	3	MATH 2325 Analytic Geo. & Calc. II	5
MATH 2315 Analytic Geo. & Calc. I* (2A)	5	CIS/MATH 2713 Intro. to Comp. Science	3
MATH 2503 Discrete Mathematics	3		

<b>Sophomore</b>			
<b>Fall</b>	<b>Hours</b>	<b>Spring</b>	<b>Hours</b>
MATH 3314 Calculus III	4	MATH 3003 Linear Algebra	3
MATH 3153 Mathematics for 7th to 12th Grade Teachers**	3	MATH 3113 Geometry** <i>or</i> MATH elective***	3

<b>Junior</b>			
<b>Fall</b>	<b>Hours</b>	<b>Spring</b>	<b>Hours</b>
MATH 3203 Probability & Statistics <i>or</i> MATH 4403 Mathematical Modeling	3	MATH 3213 Introduction to Abstract Mathematics	3
		MATH 3323 Differential Equations <i>or</i> MATH 3333 Engineering Mathematics	3

<b>Senior</b>			
<b>Fall</b>	<b>Hours</b>	<b>Spring</b>	<b>Hours</b>
MATH 4113 Abstract Algebra I <i>or</i> MATH 4413 Foundations of Analysis I	3	MATH 4133 Abstract Algebra II*** <i>or</i> MATH 4423 Foundations of Analysis II*** <i>or</i> MATH 4503 Advanced Topics in Mathematics***	3

**Note:** This major provides fewer than the required 39 hours of 3000-4000 level coursework. Students will need to complete additional upper-level coursework to satisfy this graduation requirement.

### B.A. Mathematics Secondary Education 8-12

- Complete the mathematics major as outlined above.
- See *B.A. Education: Secondary Education 8-12* for required education courses.

## Bachelor's Degree Programs

### General Education – Bachelor's Degree

#### 1 – Effective Communication – 6-9 hours

##### 1A. Written Communication (3-6 hours)

- ENGL 1004\*       ENGL 1013\*
- ENGL 1023

*\*An ACT English sub-score of 25 or higher waives the ENGL 1004/ENGL 1013 requirement.*

##### 1B. Choose one additional course (3 hours)

- COMM 1203       COMM 2503
- THEA 1323

#### 2 – Critical Thinking – 9+ hours

*Students must take nine or more hours with at least one course from 2A and one course from 2B.*

##### 2A. Mathematics (3-5 hours)

- MATH 1003       MATH 2315
- MATH 1013       MATH 2403
- MATH 1124

*General education mathematics courses must be passed with a grade of C or higher.*

##### 2B. Science (3-4 hours)

- BIOL 1103       CHEM 1214/1210
- BIOL 1204/1200       CHEM 1224/1220
- BIOL 1214/1210       PHSC 1104
- BIOL 2614       PHSC 1204
- CHEM 1104/1100       SCI 1013\*

*\*SCI 1013 may count only once.*

##### 2C. Additional electives (0-3 hours)

- CIS 1003       ENGL 2103
- COMM 2003       PHIL 1003
- ECON 2023       SES 2123
- ECON 2033

#### 3 – Cultural Literacy – 18 hours

##### 3A. Religious Beliefs (3 hours)

- RELI 1003       RELI 1023
- RELI 1013       RELI 1203

##### 3B. Humanity & Behavior (3 hours)

- COMM/JRNL 1503       PSYC 1003
- HS 2203       SOCI 1003
- NUTR 1003       WS 1003
- POSC 1003

##### 3C. Artistic Appreciation (3 hours)

- ART 1003       MUSI 2003
- ART 2733       MUSI 2103
- ART 2743       THEA 1313

##### 3D. Historical Perspectives (3 hours)

- HIST 1033       HIST 2233
- HIST 1043       HIST 2243

##### 3E. Global Perspectives (3 hours)

- ENGL 2203       POSC 2213
- ENGL 2503       SPAN 1013
- GEOG 1003       SPAN 1023
- HUMN 2503       WS 1013

##### 3F. Additional elective (3 hours)

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*Students must choose one additional course from 3A-3E not already taken.*