

## 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)

◆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.


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

**Total credits for graduation: 120**

**Effective: 9/2021**