Salem | STATE UNIVERSITY

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) and Diversity, Power Dynamics and Social Justice

W-II	Written Communication - Level II			☐
W-III	Written Communication - Level III			☐
DPDS	Diversity, Power Dynamics and Social Justice			☐

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

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

Total credits for graduation: 120

Effective: 9/2022