

Name:
Student ID:
Date Admitted Into Major:

BACHELOR OF SCIENCE

MATHEMATICS GENERAL EDUCATION REQUIREMENTS

◆ Reading Comprehension **♣General Education Categories (34-35 credits total)** First Year Seminar **♦FYS** Written Communication - Level I ♦W-I 3 ♦OC Oral Communication 3 **PGR** Personal Growth & Responsibility 3 Creative Expression & Appreciation 3 CEA 3 WC World Cultures HP The Human Past 3 CS 3 Contemporary Society 3-4 # Any SR course Scientific SR Reasoning: # SR Lab course 4 QR Quantitative Reasoning 3 **‡ Written Communication (Level II and Level III)** W-II Written Communication - Level II W-III Written Communication - Level III

Competencies

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	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)

(T)							
(Three courses numbered above 300 with at most 3 credits							
from N	from MAT572.)						
MAT							
MAT							
MAT							
(The above major courses must satisfy <i>one</i> of the following							
seque	sequences.)						
Algebra sequence			MAT303A, MAT306 or 403				
Analysis sequence			MAT409, MAT411	or 41	2		
Discrete Mathematics			MAT314, MAT316	6			
seque	sequence						
Geometry sequence			MAT406, MAT412	2			
Probability & Statistics			MAT407, MAT417	,			
seque	nce						

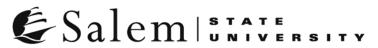
Note: A course may count as both a major core course and as part of a sequence.

Effective: 9/2017

- ▼ 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.

♦ COMPETENCIES - TO BE COMPLETED WITHIN THE FIRST 30 CREDITS ♦ GENERAL EDUCATION CATEGORIES - TO BE COMPLETED WITHIN THE FIRST 30 CREDITS

Special Application Process Required



Name:	
Student ID:	
Date Admitted Into Major:	

COMBINED BACHELOR OF SCIENCE IN MATHEMATICS AND

MASTER OF EDUCATION IN SECONDARY EDUCATION WITH A MINOR IN TEACHER EDUCATION

TEACHER LICENSURE FOR MATHEMATICS EDUCATION: GRADES 5-8 OR 8-12

GENERAL EDUCATION REQUIREMENTS Competencies Basic College Math

♣General Education Categories - 34-35 credits

◆FYS	First Year Ser			3		
♦W-I	Written Comn	nunication - Level I			3	
♦OC	Oral Commun	ication			3	
PGR	Personal Grov	Personal Growth & Responsibility			3	
CEA	Creative Expr			3		
WC	World Culture			3		
HP	The Human P	The Human Past			3	
CS	Contemporary	Contemporary Society			3	
SR	Scientific	# Any SR course			3-4	
SK	Reasoning:	# SR Lab course			4	
QR	Quantitative F	Reasoning			3	

‡ Written Communication (Level II and Level III)

W-II	Written Communication - Level II		
W-III	Written Communication - Level III		

▼ Required Support Courses for the Teacher Education Minor (6 credits)

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)

115	Exploring Education	3	
404	Intro to Teaching and Assessment	3	
405	Culturally Responsive Teaching	3	
415	Teaching Exceptional Learners	3	
416	Assessment Methods	3	
774	Methods of Teaching Mathematics I	3	
760	Adolescent Literacy in the Disciplines	3	
762	Technology Methods	1.5	
775	Methods of Teaching Mathematics II	3	
860	Sheltering Content for ELLs	3	
763	Classroom Mgmt and Community Bldg	1.5	
	405 415 416 774 760 762 775 860	404 Intro to Teaching and Assessment 405 Culturally Responsive Teaching 415 Teaching Exceptional Learners 416 Assessment Methods 774 Methods of Teaching Mathematics I 760 Adolescent Literacy in the Disciplines 762 Technology Methods 775 Methods of Teaching Mathematics II 860 Sheltering Content for ELLs	404 Intro to Teaching and Assessment 3 405 Culturally Responsive Teaching 3 415 Teaching Exceptional Learners 3 416 Assessment Methods 3 774 Methods of Teaching Mathematics I 3 760 Adolescent Literacy in the Disciplines 3 762 Technology Methods 1.5 775 Methods of Teaching Mathematics II 3 860 Sheltering Content for ELLs 3

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 (12 credits)

5th Year Courses (M.Ed.): (18 credits)

EDC	884PS	Practicum Seminar Tchg Math	3	
EDC	884P	Stu Tchg Pract. Math (8-12)		
	OR		3	
EDC	885P	Stu Tchg Pract. Math (58)		
EDC	804	School-Based Internship	3	
EDC	805	Professional Lives of Teachers	3	
		Elective	3	
		Elective	3	

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- # These Scientific Reasoning General Education Category courses do not have to be a sequence or be from the same discipline
- t 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.

♦ COMPETENCIES - TO BE COMPLETED WITHIN THE FIRST 30 CREDITS

♦ GENERAL EDUCATION CATEGORIES - TO BE COMPLETED WITHIN THE FIRST 30 CREDITS

Effective: 9/2017