

**COMBINED BACHELOR OF SCIENCE IN MATHEMATICS  
 WITH A MAJOR IN SECONDARY EDUCATION  
 AND  
 MASTER OF EDUCATION IN SECONDARY EDUCATION  
 TEACHER LICENSURE FOR MATHEMATICS EDUCATION: GRADES 5-8 OR 8-12**

**GENERAL EDUCATION REQUIREMENTS**

**Competencies**

<input type="checkbox"/>	◆ Basic College Math
<input type="checkbox"/>	◆ Reading Comprehension

**◆ General Education Categories - 34-35 credits**

◆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"/>	

**▼ Required Support Courses for Secondary Ed (6 credits)**

PSY	252	Adolescent Psychology	3	
HST	204	U.S. History and Constitutional Gov't I	3	

**Required Major: (Secondary Education):\***  
 Required (33 Credits; courses with asterisk carry graduate and undergraduate credit)

EDC	115	Exploring Education	3	
EDC	404	Intro to Teaching and Assessment	3	
EDC	405	Culturally Responsive Teaching	3	
EDC	415	Teaching Exceptional Learners	3	
EDC	461	Fieldwork Seminar I	1.5	
EDC	416	Assessment Methods	3	
EDC	462	Fieldwork Seminar II	1.5	
*EDC	774	Methods of Teaching Mathematics I	3	
*EDC	760	Adolescent Literacy in the Disciplines	3	
*EDC	762	Technology Methods	1.5	
*EDS	775	Methods of Teaching Mathematics II	3	
*EDS	860	Sheltering Content for ELLs	3	
*EDS	763	Classroom Mgmt and Community Bldg	1.5	

**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	240	Linear Algebra	3	
MAT	303A	Abstract 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)**

**Choose one of the following to complete a sequence:**

MAT	306	Theory of Numbers	3	
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)**

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.


**5<sup>th</sup> Year Courses (M.Ed.): (18 credits)**

EDC	884PS	Practicum Seminar Tchg Math	3	
EDC	884P	Stu Tchg Pract. Math (8-12)	3	
EDC	885P	Stu Tchg Pract. Math (5--8)	3	
EDC	804	School-Based Internship	3	
EDC	805	Professional Lives of Teachers	3	
		Elective	3	
		Elective	3	

▼ 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**

**The additional credits listed above are required for Graduate graduation**

**Effective: 9/2018**