

**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	Introduction to Teaching	3
EDC	405	Culturally Responsive Teaching	3
EDC	415	Teaching Exceptional Learners	3
EDC	461	Fieldwork Seminar I	1.5
EDC	416	Introduction to Assessment	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

**◆ Required Programmatic Assessments**

EDA	901	Prog Assess for Initial Ed Lic I	0
EDA	902	Prog Assess for Initial Ed Lic II	0
EDA	903	Prog Assess for Initial Ed Lic III	0
EDA	904	Prog Assess for Initial Ed Lic IV	0
EDA	905	Prog Assess for Initial Ed Lic V	0

**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
		OR	
EDC	885P	Stu Tchg Pract. Math (5--8)	
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.
- ◆ Programmatic Assessments are required for all students pursuing educational licensure in a specified sequence. Results will be factored into gateway reviews for progression that occurs each term beginning Spring term of the Junior year.
- \*\* May be necessary to take additional free electives to attain the minimum 120 credits required for graduation

◆ 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: 120-135**
**The additional credits listed above are required for graduate degree**
**Effective: 9/2021**