Ɛ Salem | STATE UNIVERSITY

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

☐ ♦ Basic College Math	
☐ ♦ 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			☐
W-III	Written Communication - Level III			☐
DPDS	Diversity, Power Dynamics and Social Justice			☐

♥ 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	

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 (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: 9/2020**