

CLEMSON UNIVERSITY EUGENE T. MOORE SCHOOL OF EDUCATION
SECONDARY EDUCATION
TEACHING AREA: MATHEMATICS Grades 9 – 12, BACHELOR OF ARTS
CURRICULUM PLAN 2009-2010

The Bachelor of Arts degree in Secondary Education is available to students preparing to teach mathematics on the secondary school level (grades 9–12). The teaching field should be selected as early as possible so that appropriate freshman and sophomore courses may be taken. Each curriculum requires a major concentration in the teaching field. Specific courses and sequences have been designated to meet requirements for those planning to teach. Students who have elective courses in the teaching area should consult their advisors prior to scheduling these courses. The professional education courses should be completed in sequence.

FRESHMAN YEAR

<u>Fall Semester</u>			<u>Spring Semester</u>		
ED 105	Orientation to Education	2	MTHSC 108	Calculus of One Variable II	4
ENGL 103	Accelerated Composition	3	MTHSC 129	Problem Solving in Discrete Math.	3
MTHSC 106	Calculus of One Variable I	4	PHIL 102	Introduction to Logic	3
	Foreign Language Requirement ¹	3	PHYS 122	Physics with Calculus I	3
	Natural Science Requirement ²	4	PHYS 124	Physics Laboratory I	1
LIB 100	Clemson Connect	<u>0</u>		Foreign Language Requirement ¹	<u>3</u>
		16			17

SOPHOMORE YEAR

<u>Fall Semester</u>			<u>Spring Semester</u>		
ECON 200	Economic Concepts OR	3	ED F 302	Educational Psychology	3
ECON 211	Principles of Microeconomics		ED F 315	Technology Skills for Learning	1
HIST 102	History of the United States	3	MTHSC 208	Intro. to Ordinary Diff. Equations	4
MTHSC 206	Calculus of Several Variables	4	MTHSC 311	Linear Algebra	3
MTHSC 250	Intro. to Mathematical Sciences	1		Arts & Humanities (Literature) Require ⁴	3
	Computer Science Requirement ³	3		Science & Tech. in Society Require ²	<u>3</u>
	Cross-Cultural Awareness Requirement ²	<u>3</u>			
		17			17

JUNIOR YEAR

<u>Fall Semester</u>			<u>Spring Semester</u>		
ED F 301	Principles of American Education	3	ED F 335	Adolescent Growth and Development	3
EDSEC 326	Practicum in Secondary Mathematics	3	ED SP 370	Introduction to Special Education	3
ENGL 314	Technical Writing	3	EDSEC 437	Technology in Secondary Mathematics	3
MTHSC 302	Statistics for Science & Engr.	3	MTHSC 308	College Geometry	3
MTHSC 400	Theory of Probability	<u>3</u>	MTHSC 412	Introduction to Modern Algebra	<u>3</u>
		15			15

SENIOR YEAR

<u>Fall Semester</u>			<u>Spring Semester</u>		
COMM 250	Public Speaking	3	EDSEC 446	Teaching Intern. in Secondary Math. ⁶	9
ED F 425	Instructional Technology Strategies ⁵	1	EDSEC 456	Secondary Math. Capstone Seminar ⁶	<u>3</u>
EDSEC 426	Teaching Secondary Mathematics ⁵	3			
MTHSC 408	Topics in Geometry	3			
MTHSC 453	Advanced Calculus I	3			
READ 498	Secondary Content Area Reading ⁵	<u>3</u>			
		16			12

TOTAL HOURS – 125

¹Two semesters (through 202) in any modern foreign language (including American Sign Language) are required.

²See General Education Requirements.

³CP SC 101, 111, or 120

⁴ENGL 212, 213, 214, or 215

⁵ED F 425, EDSEC 426, and READ 498 must be taken concurrently prior to the teaching internship. **Offered fall semester only.**

⁶EDSEC 446 and 456 must be taken concurrently. **Offered spring semester only.**

This program offers a double major in (1) Secondary Education Mathematics (BA) and (2) Mathematical Sciences (BA)