Academic Map: Mathematics, STEMteach Mathematics Education

Department:	Mathematics	3	Degree:	BS	
Program/Major:	Mathematics	3			
Track/Emphasis: _	STEMteach Mathematic	s Education			
Does this program r	equire a minor? (Yes/No)	Yes			

Important program information in the online Undergraduate Bulletin:

UCA Core Requirements: http://uca.edu/ubulletin/general-policies-information/uca-core/

LD Core Check Sheet: http://uca.edu/academicbulletins/ld-uca-core/

Degree Requirements: http://uca.edu/ubulletin/general-policies-information/degree-requirements/

Program Description: <a href="http://uca.edu/ubulletin/colleges-departments-programs/college-of-natural-sciences-and-departments-programs/

mathematics/department-of-mathematics/

Course Descriptions: http://uca.edu/ubulletin/courses/

This degree program requires a total of $\underline{120}$ semester credit hours, including at least 40 upper-division credit hours.

Comparable courses in the Arkansas Course Transfer System (ACTS) are cross-referenced in the ACTS column of each semester block below; a core-link (http://uca.edu/academicbulletins/ld-uca-core/) takes the user to the Undergraduate Bulletin's UCA Lower-Division Core check sheet, where UCA Core options and ACTS course numbers are listed in full; an acts link takes the user to the Undergraduate Bulletin's ACTS page (http://uca.edu/academicbulletins/acts/) for additional information and a UCA-ACTS crosswalk.

Year 1

Fall - Semester 1 (credit hours: 14)

SUBJ	NUM	TITLE	SCH	ACTS
MATH	1496	Calculus I	4	MATH2405
WRTG	1310	Introduction to College Writing or Approved alternative (LD UCA Core: Writing Foundation) ¹	3	ENGL1013 core link
		LD UCA Core ¹	3	core link
		LD UCA Core ¹	3	core link
STEM	1100	Inquiry Approaches to Teaching (UCA STEMteach) ²	1	

Spring – Semester 2 (credit hours: 15)

SUBJ	NUM	TITLE	SCH	ACTS
MATH	1497	Calculus II	4	MATH2505
WRTG ENGL	1320 1320	Academic Writing and Research or Interdisciplinary Writing and Research or Other approved alternative (LD UCA Core: Research/Writing) ¹	3	ENGL1023 ENGL1023 core link
		LD UCA Core ¹	3	core link
		LD UCA Core (Natural Sciences) ¹	4	core link
STEM	1101	Inquiry Based Lesson Design (UCA STEMteach) ²	1	

Form AMAP8S Version: 2018–2019 Page 1 of 3

Year 2

Fall – Semester 3 (credit hours: 17)

SUBJ	NUM	TITLE	SCH	ACTS
MATH	2441	Mathematical Computation	4	
		General Elective	3	
MATH	2471	Calculus III	4	MATH2603
MATH	3354 2330	Concepts of Discrete Math or Discrete Structures I	3	
		LD UCA Core	3	

Spring - Semester 4 (credit hours: 16)

SUBJ	NUM	TITLE	SCH	ACTS
MATH	3320	Linear Algebra (UD UCA Core: I)	3	
		LD UCA Core ¹	3	core link
STEM	1301	Knowing and Learning (UCA STEMteach) ²	3	
		General Elective	3	
		LD UCA Core (Natural Sciences) ¹	4	core link

Year 3

Fall – Semester 5 (credit hours: 15)

SUBJ	NUM	TITLE	SCH	ACTS
		LD UCA Core ¹	3	core link
		LD UCA Core ¹	3	core link
MATH	4313	Function and Modeling	3	
MATH	3360	Introduction to Rings and Fields	3	
MATH	3370	Mathematics in Secondary Schools	3	

Spring - Semester 6 (credit hours: 15)

SUBJ	NUM	TITLE	SCH	ACTS
MATH	4372 3311	Introduction to Statistical Inference Statistical Methods II	3	
MATH	4345	College Geometry	3	
MATH	4301	Secondary Mathematics Methods (UD UCA Core: C)	3	
STEM	2301	Classrooms Interactions (UCA STEMteach) ²	3	
		General Elective	3	

Year 4

Fall - Semester 7 (Credit hours: 16)

SUBJ	NUM	TITLE	SCH	ACTS
STEM	3310	Research Method and Math and Science (UCA STEMteach) ²	3	
		General Elective	4	
MATH	4305	Introduction to the History of Mathematics (UD UCA Core: D)	3	
MATH	4371	Introduction to Probability	3	

SUBJ	NUM	TITLE	SCH	ACTS
STEM	3300	Project-Based Instruction (UCA STEMteach)	3	

Spring – Semester 8 (Credit hours: 12)

SUBJ	NUM	TITLE	SCH	ACTS
STEM	4600	Apprentice Teaching (UCA STEMteach) (UD UCA Core: Z)	6	
STEM	4605	Apprentice Teaching Seminar (UCA STEMteach)	6	

SIGNED – DEPARTMENT CHAIR	DATE
SIGNED COLLEGE DEAN	DATE

To be completed by the advisor when an Eight-Semester plan is accepted by the student:

If applicable, has	student selected a minor? Type "x" as appropriate.	No	X	Yes
If "yes," specify:	UCA STEMteach			

Notes

The student will also need to complete major, minor, or general elective courses designated as fulfilling the upper-division and capstone requirements of the UCA Core. See annotations in this Academic Map for courses in the major that will fulfill these requirements; for others, consult the *Undergraduate Bulletin* and your academic advisor.

Form AMAP8S Version: 2018–2019 Page 3 of 3

¹ See appropriate choices, alternatives, or substitutions under "UCA Core" in the *Undergraduate Bulletin*. Prior to completion of 30 semester hours, a student must complete a UCA Core course designated as a First-Year Seminar (FYS) in Critical Inquiry, Diversity, or Responsible Living.

² This Academic Map includes the 26 credit hours of the UCA STEMteach minor.