Academic Map: Mathematics, Mathematics Education

Department:	Mathematics	Degree:	BS
Program/Major:	Mathematics	_	
Track/Emphasis: _	Mathematics Education	_	
Does this program	require a minor? (Yes/No) Yes – Math Education		

Important program information in the online *Undergraduate Bulletin*:

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

LD UCA Core Check Sheet: https://uca.edu/academicbulletins/ld-uca-core/
UD UCA Core Course List: https://uca.edu/academicbulletins/ud-uca-core/

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

Program Description: https://uca.edu/ubulletin/colleges-departments/cn/mathematics/

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

This degree program requires a total of <u>120</u> 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 Ld core link (https://uca.edu/academicbulletins/ld-uca-core/) takes the user to the *Undergraduate Bulletin's Lower-Division (LD) UCA Core check sheet, where LD UCA Core options and ACTS course numbers are listed in full; a ud core link (https://uca.edu/academicbulletins/ud-uca-core/) takes the user to the *Undergraduate Bulletin's list of Upper-Division (UD) UCA Core courses; an ucts link takes the user to the *Undergraduate Bulletin's ACTS page (https://uca.edu/academicbulletins/acts/) for additional information and a UCA-ACTS crosswalk.

Scholarship recipients: Please be aware of eligibility criteria for your scholarship(s). In particular, pay attention to (1) the enrollment requirements each semester for disbursement of your scholarship(s) and (2) the number of hours and GPA required each semester and/or year for renewal of your scholarship(s). Some Academic Maps may suggest enrollment in fewer hours than required for disbursement of your scholarship(s). In such cases, work with your academic advisor to adjust your schedule to meet requirements most efficiently. Contact the Office of Student Financial Aid at (501) 450-3140 with any questions regarding enrollment/renewal requirements of your scholarship(s). For online information resources, see endnote 1.

Year 1

Fall - Semester 1 (credit hours: 16)

SUBJ	NUM	TITLE	SCH	ACTS
MATH	1496	Calculus I (LD UCA Core: Quantitative) (Math Core)	4	MATH2405
WRTG	1310	Introduction to College Writing or Approved alternative (LD UCA Core: Writing Foundation) ²	3	ENGL1013
		LD UCA Core: First Year Seminar	3	ld core link
		LD UCA Core	3	ld core link
		LD UCA Core	3	Id core link

Spring - Semester 2 (credit hours: 16)

SUBJ	NUM	TITLE	SCH	ACTS
MATH	1497	Calculus II (Math Core)	4	MATH2505
WRTG ENGL	1320 1320	Academic Writing and Research or Interdisciplinary Writing and Research or Other approved alternative (LD UCA Core: Research/Writing)	3	ENGL1023 ENGL1023 Id core link
		LD UCA Core	3	Id core link

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SUBJ	NUM	TITLE	SCH	ACTS
		LD UCA Core	3	ld core link
EDUC	1300	Education as a Profession (required Math Education minor)	3	

Year 2

Fall - Semester 3 (credit hours: <u>15</u>)

SUBJ	NUM	TITLE	SCH	ACTS
MATH	2341	Introduction to Mathematical Computation (Fall Only) (Math Core)	3	
MATH	2471	Calculus III (Math Core)	4	MATH2603
MSIT	3310	Learning and Development (required Math Education minor)	3	
		LD UCA Core	3	ld core link
EDUC	4210	Integration of Technology in Teaching (required Math Education minor)	2	

Spring – Semester 4 (credit hours: <u>15/16</u>)

SUBJ	NUM	TITLE	SCH	ACTS
MATH	3320	Linear Algebra (UD UCA Core: I) (Math Core)	3	
MATH	2335	Transition to Advanced Mathematics (Spring Only) (Math Core)	3	
MATH	4200	Introduction to Educational Testing and Assessment in STEM (Spring even years only) or		
MSIT	4321	Classroom Assessment (MATH 4200 or MSIT 4321 is required for the Math Education minor) or	2 or 3	
MATH	4313	Functions and Modeling (Spring odd years only)		
		LD UCA Core (Lab Science)	4	ld core link
		General Elective	3	

Year 3

Fall - Semester 5 (credit hours: <u>15</u>)

SUBJ	NUM	TITLE	SCH	ACTS
MATH	3370 4301	Mathematics in Secondary Schools (Fall odd years only) or Secondary Mathematics Methods (Fall even years only)	3	
MATH		Elective	3	
EDUC	3322	Diverse Learners in Inclusive Settings (required Math Education minor)	3	
		LD UCA Core	3	ld core link
		UD UCA Core (Responsible Living)	3	ud core link

Spring - Semester 6 (credit hours: <u>15/16</u>)

SUBJ	NUM	TITLE	SCH	ACTS
MATH	4313	Functions and Modeling (if not taken Semester 4, Spring odd years only) or		
MSIT	4200	Introduction to Educational Testing and Assessment in STEM (Spring even years only) or	2 or 3	
MATH	4321	Classroom Assessment (MATH 4200 or MSIT 4321 is required for the Math Education minor)		
MATH	3311	Statistical Methods	3	

SUBJ	NUM	TITLE	SCH	ACTS
MSIT	4305	Classroom Management (required Math Education minor)	3	
MATH	4345	College Geometry	3	
		LD UCA Core (Lab Science)	4	core link

Year 4

Fall - Semester 7 (Credit hours: 15)

SUBJ	NUM	TITLE	SCH	ACTS
MATH	4350	Introduction to the History of Mathematics (UD UCA Core: D)	3	
MATH	3360	Rings and Fields (Fall only)	3	
MATIL	3370	Mathematics in Secondary Schools (Fall odd years only) or	3	
MATH	4301	Secondary Mathematics Methods (Fall even years only)	3	
MATH	4360	Teaching Internship I	3	
MATH		Elective	3	

Spring - Semester 8 (Credit hours: 12)

SUBJ	NUM	TITLE	SCH	ACTS
MATH	4T90	Teaching Internship II (UD UCA Core: Z)	12	

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 fulfill these upper-division requirements; for others, consult the *Undergraduate Bulletin* and your academic advisor.

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¹ See online information resources for UCA scholarships at https://uca.edu/scholarships/ and for state scholarships at https://scholarships.adhe.edu/scholarships-and-programs/a-z/.

² See appropriate choices, alternatives, or substitutions designated in the UCA Core Requirements and the lower-division (LD) UCA Core Check Sheet in the *Undergraduate Bulletin*. Prior to completion of 30 semester hours, a student must complete an LD UCA Core course designated as a First-Year Seminar (FYS) in Critical Inquiry, Diversity, or Responsible Living.