

Academic Map: Middle-Level Education, Math + Science

Department: Teaching and Learning **Degree:** BSE
Program/Major: Middle-Level Education
Track/Emphasis: Math + Science
Does this program require a minor? (Yes/No) No

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: <http://uca.edu/ubulletin/colleges-departments-programs/college-of-education/department-of-teaching-and-learning/>
Course Descriptions: <http://uca.edu/ubulletin/courses/>

This degree program requires a total of **122 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/) (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](http://uca.edu/academicbulletins/acts/) 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: 16)

SUBJ	NUM	TITLE	SCH	ACTS
MATH	1390	College Algebra (Critical Inquiry: Quantitative)	3	MATH1103
WRTG	1310	Introduction to College Writing (Communication: Writing Foundation)	3	ENGL1013
EDUC	1300	Education as a Profession ¹	3	
BIOL	1400	Exploring Concepts in Biology or Approved alternative (LD UCA Core: Life Science) ²	4	BIOL1004 core link
		LD UCA Core: Inquiry/Analysis: Fine Arts/Humanities	3	core link

Spring – Semester 2 (credit hours: 16)

SUBJ	NUM	TITLE	SCH	ACTS
WRTG ENGL	1320 1320	Academic Writing & Research or Interdisciplinary Writing & Research or Other approved alternative (LD UCA Core: Research/Writing)	3	ENGL1023 ENGL1023 core link
MATH	3352	Number Systems for Elementary and Middle School Teachers: Reals	3	
COMM	1300	Principles of Communication [formerly SPCH 1300] ³ (LD UCA Core: Oral Communication)	3	SPCH1003
PHYS	1400	Physical Science for General Education (LD UCA Core: Physical Science)	4	PHSC1004
		LD UCA Core: Inquiry/Analysis: American History/Government	3	core link

Year 2**Fall – Semester 3 (credit hours: 16)**

SUBJ	NUM	TITLE	SCH	ACTS
MATH	3364	Concepts of Geometry	3	
MATH	4320	Concepts of Calculus (fall only)	3	
PHYS	1401	Descriptive Astronomy	4	PHSC1204
		LD UCA Core: Responsible Living	3	core link
		LD UCA Core: Diversity/World Cultures	3	core link

Spring – Semester 4 (credit hours: 16)

SUBJ	NUM	TITLE	SCH	ACTS
MATH	3354	Concepts of Discrete Mathematics (spring only)	3	
CHEM	1450	College Chemistry I	4	CHEM1004
MSIT	3310	Development and Learning ⁴ (UD UCA Core: D, R)	3	
		LD UCA Core: Inquiry/Analysis, Social Science	3	core link
		LD UCA Core: Diversity/Creative Works ²	3	core link

Year 3**Fall – Semester 5 (credit hours: 16)**

SUBJ	NUM	TITLE	SCH	ACTS
MATH	4314	Applications of Middle Level Mathematics (fall only)	3	
SCI	3320	Advanced Science Concepts I (fall only)	3	
SCI	3410	Earth Science	4	
HIST	4355	The Role of Arkansas in the Nation	3	
MSIT	3320	Introduction to Teaching at the Middle Level ⁴ (must be completed prior to Level 1 admission to teacher education)	3	

Spring – Semester 6 (credit hours: 15)

SUBJ	NUM	TITLE	SCH	ACTS
MATH	4335	Concepts of Advanced Mathematics (spring only)	3	
SCI	4420	Advanced Science Concepts II (spring only)	4	
MSIT	4325	Disciplinary Literacy (UD UCA Core: C)	3	
EDUC	3322	Diverse Learners in Inclusive Settings ⁵	3	
EDUC	4210	Integration of Technology into Teaching and Learning ⁶	2	

Year 4**Fall – Semester 7 (Credit hours: 15)⁷**

SUBJ	NUM	TITLE	SCH	ACTS
MSIT	4305	Classroom Management	3	
MSIT	4312	Strategies for Reading and Writing Assessment and Instruction	3	
MSIT	4321	Classroom Assessment (UD UCA Core: I)	3	
MSIT	4328	Advanced Strategies for Teaching and Learning in Middle Level Content-Specific Classrooms	3	
MSIT	4311	Internship I	3	

Spring – Semester 8 (Credit hours: 12)⁸

SUBJ	NUM	TITLE	SCH	ACTS
MSIT	4612	Internship II (UD UCA Core: Z)	6	
MSIT	4613	Internship II (UD UCA Core: Z)	6	

Notes

¹ Field experience hours required. See admission to teacher education requirements. Take Praxis I. Pass technology competency exam or take EDUC 1240 during the first year.

² See appropriate choices, alternatives, or substitutions under "UCA Core" in the *Undergraduate Bulletin*. During the first year, a student must complete a UCA Core course designated as a First-Year Seminar (FYS) in Critical Inquiry, Diversity, or Responsible Living. 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.

³ COMM 1300 and SPCH 1300 are the same course. Take only one of them.

⁴ Field experience hours required.

⁵ Must be admitted to teacher education and field experience hours required.

⁶ Must be admitted to teacher education and field experience hours required.

⁷ Must be admitted to teacher education to enroll in courses listed in this semester and field experience hours required in some courses. Take required Praxis II content exam(s).

⁸ Must be admitted to teacher education to enroll in courses listed in this semester and field experience hours required. Take required Praxis II pedagogy exam.