

## 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/ubulletin2015/general-policies-information/uca-core/>  
**LD Core Check Sheet:** <http://uca.edu/ubulletin/ldcore/>  
**Degree Requirements:** <http://uca.edu/ubulletin2015/general-policies-information/degree-requirements/>  
**Program Description:** <http://uca.edu/ubulletin2015/colleges-departments-programs/college-of-education/department-of-teaching-and-learning/>  
**Course Descriptions:** <http://uca.edu/ubulletin2015/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/ubulletin/ldcore/) (http://uca.edu/ubulletin/ldcore/) 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/ubulletin/arkansas-course-transfer-system/) takes the user to the *Undergraduate Bulletin's* ACTS page (http://uca.edu/ubulletin/arkansas-course-transfer-system/) 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 <sup>1</sup>	3	
BIOL	1400	Exploring Concepts in Biology or Approved alternative (LD UCA Core: Life Science) <sup>2</sup>	4	BIOL1004 <a href="#">core link</a>
		LD UCA Core: Inquiry/Analysis: Fine Arts/Humanities <sup>2</sup>	3	<a href="#">core link</a>

#### 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) <sup>2</sup>	3	ENGL1023 ENGL1023 <a href="#">core link</a>
MATH	3352	Number Systems for Elementary and Middle School Teachers: Reals	3	
COMM	1300	Principles of Communication (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 <sup>2</sup>	3	<a href="#">core link</a>

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

SUBJ	NUM	TITLE	SCH	ACTS
MATH	3364	Concepts of Geometry	3	
MATH	3354	Concepts of Discrete Mathematics	3	
PHYS	1401	Descriptive Astronomy	4	PHSC1204
		LD UCA Core: Responsible Living <sup>2</sup>	3	<a href="#">core link</a>
		LD UCA Core: Diversity/World Cultures <sup>2</sup>	3	<a href="#">core link</a>

**Spring – Semester 4 (credit hours: 16)**

SUBJ	NUM	TITLE	SCH	ACTS
MATH	4320	Concepts of Calculus	3	
CHEM	1450	College Chemistry I	4	CHEM1004
MSIT	3310	Development and Learning <sup>3</sup> (UD UCA Core: D, R)	3	
		LD UCA Core: Inquiry/Analysis, Social Science <sup>2</sup>	3	<a href="#">core link</a>
		LD UCA Core: Diversity/Creative Works <sup>2</sup>	3	<a href="#">core link</a>

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

SUBJ	NUM	TITLE	SCH	ACTS
MATH	4314	Applications of Middle Level Mathematics	3	
SCI	3320	Advanced Science Concepts I	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 <sup>3</sup>	3	

**Spring – Semester 6 (credit hours: 15)**

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

**Year 4****Fall – Semester 7 (Credit hours: 15)<sup>6</sup>**

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)<sup>7</sup>**

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

**Notes**

<sup>1</sup> 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.

<sup>2</sup> 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.

<sup>3</sup> Field experience hours required.

<sup>4</sup> Must be admitted to teacher education and field experience hours required.

<sup>5</sup> Must be admitted to teacher education and field experience hours required.

<sup>6</sup> 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).

<sup>7</sup> 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.