

## 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:** <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/ce/teaching-learning/>  
**Course Descriptions:** <https://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](https://uca.edu/academicbulletins/ld-uca-core/) (https://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](https://uca.edu/academicbulletins/acts/) 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 <sup>1</sup>.

### Year 1

#### Fall – Semester 1 (credit hours: 16)

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

#### Spring – Semester 2 (credit hours: 16)

SUBJ	NUM	TITLE	SCH	ACTS
WRTG	1320	Academic Writing & Research or	3	<a href="#">ENGL1023</a> <a href="#">ENGL1023</a> <a href="#">core link</a>
ENGL	1320	Interdisciplinary Writing & Research or Other approved alternative (LD UCA Core: Research/Writing)		
MATH	3352	Number Systems for Elementary and Middle School Teachers: Reals	3	

SUBJ	NUM	TITLE	SCH	ACTS
COMM	1300	Principles of Communication [formerly SPCH 1300] <sup>4</sup> (LD UCA Core: Oral Communication)	3	SPCH1003
PHYS	1400	Physical Science for General Education (LD UCA Core: Physical Sci)	4	PHSC1004
		LD UCA Core: Inquiry/Analysis: American History/Government	3	<a href="#">core link</a>

**Year 2****Fall – Semester 3 (credit hours: 17)**

SUBJ	NUM	TITLE	SCH	ACTS
MATH	3364	Concepts of Geometry	3	
CHEM	1450	College Chemistry I	4	CHEM1004
PHYS	1401	Descriptive Astronomy	4	PHSC1204
		LD UCA Core: Responsible Living (suggest EDUC 2330)	3	<a href="#">core link</a>
		LD UCA Core: Diversity/World Cultures	3	<a href="#">core link</a>

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

SUBJ	NUM	TITLE	SCH	ACTS
MATH	3354	Concepts of Discrete Mathematics (spring only)	3	
SCI GEOG	3410 1400	Earth Science or Earth Systems Science	4	PHSC1104
MSIT	3310	Learning and Development <sup>5</sup> (UD UCA Core: D, R)	3	
		LD UCA Core: Inquiry/Analysis, Social Science	3	<a href="#">core link</a>
		LD UCA Core: Diversity/Creative Works	3	<a href="#">core link</a>

**Year 3****Fall – Semester 5 (credit hours: 15)**

SUBJ	NUM	TITLE	SCH	ACTS
MATH	4314	Applications of Middle Level Mathematics (fall only)	3	
MATH	4320	Concepts of Calculus (fall only)	3	
SCI	3320	Advanced Science Concepts I (fall only)	3	
HIST	3310	Social Science Concepts in Arkansas History	3	
MSIT	3320	Introduction to Teaching at the Middle Level <sup>5</sup> (must be completed prior to Gate 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 <sup>6</sup>	3	
EDUC	4210	Integration of Technology into Teaching and Learning <sup>7</sup>	2	

**Year 4****Fall – Semester 7 (Credit hours: 15)<sup>8</sup>**

SUBJ	NUM	TITLE	SCH	ACTS
MSIT	4305	Classroom Management	3	
MSIT	4311	Internship I	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	

**Spring – Semester 8 (Credit hours: 12)<sup>9</sup>**

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

**Notes**

<sup>1</sup> 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/>.

<sup>2</sup> Field experience hours required. Refer to College of Education Office of Candidate Services website ([uca.edu/ocs](http://uca.edu/ocs)) for teacher education admission requirements.

<sup>3</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>4</sup> COMM 1300 and SPCH 1300 are the same course. Take only one of them.

<sup>5</sup> Field experience hours required.

<sup>6</sup> Must be admitted to teacher education and field experience hours required.

<sup>7</sup> Must be admitted to teacher education.

<sup>8</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>9</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.