



SUBJ	NUM	TITLE	SCH	ACTS
		LD UCA Core (Natural Sciences) <sup>2, 4</sup>	4	<a href="#">core link</a>
STEM	1101	Inquiry Based Lesson Design (UCA STEMteach)	1	

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

SUBJ	NUM	TITLE	SCH	ACTS
MATH	2335	Transition to Advanced Mathematics	3	
MATH	2441	Mathematical Computation	4	
		General Elective <sup>4</sup>	3	
MATH	2471	Calculus III	4	MATH2603
		LD UCA Core <sup>2</sup>	3	<a href="#">core link</a>

**Spring – Semester 4 (credit hours: 16/17)**

SUBJ	NUM	TITLE	SCH	ACTS
MATH	3320	Linear Algebra (UD UCA Core: I)	3	
		Program Requirement <sup>5</sup>	3 or 4	
STEM	1301	Knowing and Learning (UCA STEMteach)	3	STEM
MATH	3331	Differential Equations	3	MATH
		LD UCA Core (Natural Sciences)	4	

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

SUBJ	NUM	TITLE	SCH	ACTS
MATH	4371	Introduction to Probability (UD UCA Core: R)	3	
		LD UCA Core <sup>2</sup>	3	<a href="#">core link</a>
		LD UCA Core <sup>2</sup>	3	<a href="#">core link</a>
MATH	4313	Functions and Modeling	3	
		LD UCA Core	3	

**Spring – Semester 6 (credit hours: 15/16)**

SUBJ	NUM	TITLE	SCH	ACTS
MATH	3311	Statistical Methods	3	
MATH	4345	College Geometry	3	
		Program Requirement <sup>5</sup>	3 or 4	
MATH	4306	Modeling and Simulation (UD UCA Core: Z)	3	
STEM	2301	Classroom Interactions (UCA STEMteach)	3	

**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	

SUBJ	NUM	TITLE	SCH	ACTS
MATH		Math Elective—Recommended one of the following courses: Math 4315 Introduction to Partial Differential Equations or Math 4340 Numerical Methods or Math 4373 Regression Analysis	3	
		General Elective <sup>4</sup>	3	
STEM	3310	Research Method in Mathematics and Science (UCA STEMteach)	3	
STEM	3300	Project-Based Instruction (UCA STEMteach)	3	

**Spring – Semester 12 (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	

March 22, 2016

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SIGNED – DEPARTMENT CHAIR

DATE

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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  Yes

If “yes,” specify: UCA STEMteach

**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> See appropriate choices, alternatives, or substitutions under “UCA Lower Division Core” in the *Undergraduate Bulletin*. Prior to completion of 30 semester hours, a student must complete a UCA Lower Division 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. See annotations in this Academic Map for courses within the major that fulfill these requirements; for others, consult the *Undergraduate Bulletin* and your academic advisor.

<sup>3</sup> This Academic Map includes the 26 credit hours of the UCA STEMteach minor.

<sup>4</sup> Students will need to adjust the number of general elective credit hours depending on the sequence chosen to meet the program requirements.

<sup>5</sup> Program Requirement: PHYS 1441 and PHYS 1442 OR PHYS 1410 and PHYS 1420 OR CHEM 1450 and PHYS 1451 OR ECON 2320 and ECON 2321. Students who use the first course of the sequence for a lower-division UCA Core Critical Inquiry requirement (Physical Science or Social Science) will take an additional general elective instead of the program requirement in their fifth semester.