

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

SUBJ	NUM	TITLE	SCH	ACTS
MATH	2335	Transition to Advanced Mathematics	3	
MATH	2471	Calculus III	4	MATH2603
EDUC	1301	Knowing and Learning (UCA STEMteach) ²	3	
		LD UCA Core (Natural Sciences) ^{1, 3}	4	core link
		General Elective ³	3	

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

SUBJ	NUM	TITLE	SCH	ACTS
MATH	2441	Mathematical Computation	4	
MATH	3320	Linear Algebra (UD UCA Core: I)	3	
		LD UCA Core ¹	3	core link
		Program Requirement ⁴	3 or 4	
EDUC	2301	Classrooms Interactions (UCA STEMteach) ²	3	

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

SUBJ	NUM	TITLE	SCH	ACTS
MATH	4371	Introduction to Probability (UD UCA Core: R)	3	
MATH	3331	Differential Equations (UD UCA Core: C)	3	
		LD UCA Core ¹	3	core link
		LD UCA Core ¹	3	core link
EDUC	3300	Project-Based Instruction (UCA STEMteach) ²	3	

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

SUBJ	NUM	TITLE	SCH	ACTS
MATH	4372	Introduction to Statistical Inference	3	
MATH	4345	College Geometry	3	
		LD UCA Core ¹	3	core link
		Program Requirement ⁴	3 or 4	
MATH	4306	Modeling and Simulation (UD UCA Core: Z)	3	

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

SUBJ	NUM	TITLE	SCH	ACTS
MATH	4315 4340 4373	Introduction to Partial Differential Equations or Numerical Methods or Regression Analysis	3	
MATH	4305 4340 4373	Ordinary Differential Equations II Numerical Methods or Regression Analysis	3	
		General Elective ³	3	

SUBJ	NUM	TITLE	SCH	ACTS
MATH	4313	Function and Modeling	3	
STEM	3310	Research Method in Mathematics and Science (UCA STEMteach) ²	3	

Spring – Semester 12 (Credit hours: 12)

SUBJ	NUM	TITLE	SCH	ACTS
STEM	3305	Perspectives on Mathematics and Science (UCA STEMteach) ³	3	
		General Electives ³	3	
STEM	4305	Apprentice Teaching Seminar (UCA STEMteach) ²	3	
STEM	4600	Apprentice Teaching (UCA STEMteach) ²	6	

 SIGNED – DEPARTMENT CHAIR

 DATE

 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 X Yes

If “yes,” specify: UCA STEMteach

Notes

¹ 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.

² This Academic Map includes the 26 credit hours of the UCA STEMteach minor.

³ Students will need to adjust the number of general elective credit hours depending on the sequence chosen to meet the program requirements.

⁴ 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 UCA Lower Division Core Critical Inquiry requirement (Physical Science or Social Science) will take an additional general elective instead of the program requirement in their fifth semester.