

Year 2**Fall – Semester 3 (credit hours: 14)**

SUBJ	NUM	TITLE	SCH	ACTS
MATH	2335	Transition to Advanced Mathematics	3	
MATH	2471	Calculus III	4	MATH2603
		UCA Lower Division Core ¹	3	core link
		UCA Lower Division Core (Natural Sciences) ^{1,2}	4	core link

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

SUBJ	NUM	TITLE	SCH	ACTS
MATH	2441	Mathematical Computation	4	
MATH	3320	Linear Algebra [UCA Upper Core: I]	3	
MATH	3331	Differential Equations [UCA Upper Core: C]	3	
		Program Requirement ²	3 or 4	
		Minor Field ^{3,4}	3	

Year 3**Fall – Semester 5 (credit hours: 15 or 16)**

SUBJ	NUM	TITLE	SCH	ACTS
MATH	4371	Introduction to Probability [UCA Upper Core: R]	3	
		Require major course (MATH 4315 or 4340 or 4373)	3	
		UCA Lower Division Core ¹	3	core link
		Program Requirement (if needed) or General Elective ²	3 or 4	
		Minor Field ^{3,4}	3	

Spring – Semester 6 (credit hours: 15)

SUBJ	NUM	TITLE	SCH	ACTS
MATH	4372	Introduction to Statistical Inference	3	
		MATH Major Elective	3	
		UCA Lower Division Core ¹	3	core link
		Minor Field ^{3,4}	3	
		Minor Field ^{3,4}	3	

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

SUBJ	NUM	TITLE	SCH	ACTS
		MATH Major Elective	3	
		General Elective ⁴	4	
		General Elective ⁴	3	
		Minor Field ^{3,4}	3	
		Minor Field ^{3,4}	3	

Spring – Semester 8 (Credit hours: 13 - 15)

SUBJ	NUM	TITLE	SCH	ACTS
MATH	4306	Modeling & Simulation [UCA Upper Core: Z]	3	
		General Electives ⁴	3	
		General Electives ^{4, 5}	1 - 3	
		Minor Field ^{3, 4}	3	
		Minor Field ^{3, 4}	3	

 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 _____ Yes

If "yes," specify: _____

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 Lower Division Core .

² PHYS1441 and PHYS1442 **OR** PHYS1410 and PHYS1420 **OR** CHEM1450 and PHYS1451 **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) would take an additional general elective instead of the program requirement in their fifth semester.

³ This Academic Plan includes 24 credit hours in the Minor field of study. Minor requirements range from 15 - 31 credit hours, so the student will need to adapt the number of general elective and minor elective credit hours in this plan as needed, depending upon the chosen minor field. Given a student's choice of minor and special degree requirements, the total number of credit-hours taken may exceed the total number of credit hours required to complete the program.

⁴ The applied mathematics major requires 24 hours of upper-division courses. The additional 16 upper division credit hours needed to complete the degree may be met by minor field courses and additional math or general electives.

⁵ Students will need to adjust the number of general elective credit hours depending on the sequence chosen to meet the program requirements.