

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
MATH	3320	Linear Algebra (UD UCA Core: I)	3	
		LD UCA Core (Natural Sciences) ^{2, 5}	4	core link

Spring – Semester 4 (credit hours: 16)

SUBJ	NUM	TITLE	SCH	ACTS
		LD UCA Core ²	3	
MATH	2441	Mathematical Computation	4	
MATH	3331	Differential Equations (UD UCA Core: C)	3	
		LD UCA Core	3	
		Minor Field ^{3, 4}	3	

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

SUBJ	NUM	TITLE	SCH	ACTS
MATH	4371	Introduction to Probability (UD UCA Core: R)	3	
MATH	4315 4340 4373	Partial Differential Equations or Numerical Methods or Regression Analysis	3	
		LD UCA Core ²	3	core link
		Program Requirement (if needed) or General Elective ⁵	3 or 4	
		Minor Field ^{3, 4}	3	

Spring – Semester 6 (credit hours: 15)

SUBJ	NUM	TITLE	SCH	ACTS
MATH	3311	Statistical Methods	3	
		MATH Major Elective	3	
		LD UCA Core ²	3	core link
		Minor Field ^{3, 4}	3	
		Minor Field ^{3, 4}	3	

Year 4**Fall – Semester 7 (Credit hours: 15/16)**

SUBJ	NUM	TITLE	SCH	ACTS
		MATH Major Elective	3	
		LD UCA Core	4	
		Program Requirement ⁴ (if needed) or General Elective ⁵	3 or 4	
		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 and Simulation (UD UCA Core: Z)	3	
		General Electives ⁴	3	
		General Electives ^{4, 6}	1 or 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 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/>.

² See appropriate choices, alternatives, or substitutions under “LD UCA Core” in the *Undergraduate Bulletin*. Prior to completion of 30 semester hours, a student must complete a LD 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. See annotations in this Academic Map for courses in the major that will fulfill UD UCA Core requirements; for others, consult the *Undergraduate Bulletin* and your academic advisor.

³ This Academic Plan includes 24 credit hours in the Minor field of study. Minor requirements range from 15 to 26 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. Depending on 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 courses in the minor field and by additional math or general electives.

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

⁶ Students will need to adjust the number of general elective credit hours depending on the sequence chosen to meet the program requirements.