

Year 2**Fall – Semester 3 (credit hours: 16)**

SUBJ	NUM	TITLE	SCH	ACTS
MATH	2341	Mathematical Computations (Fall Only) (<i>Math Core</i>)	3	
MATH	2471	Calculus III (<i>Math Core</i>)	4	MATH2603
MATH	3320	Linear Algebra (UD UCA Core: I) (<i>Math Core</i>)	3	
		LD UCA Core.	3	core link
		Minor Field ^{3, 4}	3	

Spring – Semester 4 (credit hours: 15)

SUBJ	NUM	TITLE	SCH	ACTS
MATH	2335	Transition to Advanced Mathematics (Spring Only) (<i>Applied Re-quired</i>)	3	
MATH	3331	Differential Equations (UD UCA Core: C) (Spring Only) (<i>Math Core</i>)	3	
		LD UCA Core	3	core link
		LD UCA Core	3	core link
		Minor Field	3	

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

SUBJ	NUM	TITLE	SCH	ACTS
MATH	4315	Partial Differential Equations (Fall Only) (<i>Applied Restrictive Elec-tive</i>) or MATH Major Elective (<i>Applied Elective</i>)	3	
		MATH Major Elective (<i>Applied Elective</i>)	3	
		LD UCA Core	3	core link
		Minor Field	3	
		General Elective	3	

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

SUBJ	NUM	TITLE	SCH	ACTS
MATH	3311	Statistical Methods (<i>Applied Required</i>)	3	
MATH	4340 4373	Numerical Methods (Spring Only) (<i>Applied Restrictive Elective, if needed</i>) or Regression Analysis (Spring Only) (<i>Applied Restrictive Elective, if needed</i>) or MATH Major Elective (<i>Applied Elective</i>)	3	
		Program Related Requirement (if needed) or General Elective	3 or 4	
		General Elective	3	
		Minor Field	3	

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

SUBJ	NUM	TITLE	SCH	ACTS
MATH	4371	Introduction to Probability (UD UCA Core: R) (Fall Only) (<i>Applied Required</i>)	3	
		UD UCA Core (Diversity) (<i>Math 4350 suggested, Fall Only</i>)	3	
		Program Related Requirement (if needed) or General Elective	3 or 4	
		Minor Field	3	
		General Electives (Upper Division if needed)	3	

Spring – Semester 8 (Credit hours: 11-13)

SUBJ	NUM	TITLE	SCH	ACTS
MATH	4306	Modeling and Simulation (UD UCA Core: Z) (Spring Only) (<i>Applied Required</i>)	3	
		Minor Field	3	
		General Electives (Upper Division if needed)	3	
		General Electives (Upper Division if needed)	2-4	

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.