

SAMPLE DEGREE PLAN

Bachelor of Science, Mathematics, Applied Mathematics

This degree program requires a total of **120** credit hours (CH), including 38 credit hours of the lower-division (LD) UCA Core and 40 credit hours of upper-division (3000- and 4000-level) courses. This sample degree plan demonstrates how a first-time entering freshman with no college credit can earn the degree in eight semesters. The upper-division UCA Core must be met using major, minor, or general elective courses. For general and specific degree requirements, please see the *Undergraduate Bulletin* at <https://uca.edu/ubulletin>. Consult your academic advisor for appropriate substitutions and additional information.

This degree is offered as an eight-semester degree completion program. Eligible students who follow this degree plan and complete all general and specific degree requirements in the *Undergraduate Bulletin* of the year in which they were admitted will earn this degree in eight semesters. For eligibility requirements, see <https://uca.edu/ubulletin/degreeplans/> for more information.

Year 1

Fall — Semester 1		Spring — Semester 2	
Courses	CH	Courses	CH
MATH 1486 Calculus Preparation ¹ or MATH 1496 Calculus I ²	4	MATH 1496 Calculus I or MATH 1497 Calculus II	4
WRTG 1310 Introduction to College Writing or Other approved Writing Foundation alternative	3	WRTG 1320 Academic Writing & Research or ENGL 1320 Interdisciplinary Writing & Research or Other approved Research and Writing alternative	3
LD UCA Core First Year Seminar	3	LD UCA Core Lab Science	4
LD UCA Core Course	3	LD UCA Core Lab Science	4
LD UCA Core Course	3		
Total	16	Total	15

Year 2

Fall — Semester 3		Spring — Semester 4	
Courses	CH	Courses	CH
MATH 2341 Mathematical Computations	3	MATH 2335 Transition to Advanced Mathematics	3
MATH 1497 Calculus II or MATH 2471 Calculus III	4	MATH 3331 Ordinary Differential Equations	3
MATH 3320 Linear Algebra	3	MATH 2471 Calculus III (if not taken) or LD UCA Core Course	3-4
LD UCA Core Course	3	LD UCA Core Course	3
LD UCA Core Course	3	Related Requirement	3-4
Total	16	Total	16

¹ MATH 1486 requires an ACT of 21 or higher, or completion of MATH 1390 College Algebra with a grade of C or higher. Students who do not meet the prerequisites prior to the first semester are ineligible for the eight-semester degree completion program.

² MATH 1496 requires an ACT of 27 or higher, or a C or better in MATH 1486, or a C or better in both MATH 1390 and MATH 1392, or the equivalent of these prerequisites.

Year 3

Fall — Semester 5		Spring — Semester 6	
Courses	CH	Courses	CH
MATH 4315 Partial Differential Equations or MATH Major Elective	3	MATH 3311 Statistical Methods	3
MATH Major Elective	3	MATH 4340 Numerical Methods (if MATH 4315 not taken) or MATH 4373 Regression Analysis (if MATH 4315 not taken) or MATH Major Elective	3
LD UCA Core Course (if needed) or Minor Course	3	Related Requirement (if needed) or Minor Course	3-4
Minor Courses or General Electives	6	Minor Courses or General Electives	5-6
Total	15	Total	15

Year 4

Fall — Semester 7		Spring — Semester 8	
Courses	CH	Courses	CH
MATH 4371 Introduction to Probability	3	MATH 4306 Modeling and Simulation	3
Minor Courses (if needed) or General Electives	12	Minor Courses (if needed) or General Electives	9
Total	15	Total	12

This sample degree plan has been approved by the Department of Mathematics in the College of Science and Engineering.

Loi Booher

06/17/25

SIGNED – DEPARTMENT CHAIR / SCHOOL DIRECTOR

DATE

Stephen Addison

06/17/25

SIGNED – COLLEGE DEAN

DATE