SAMPLE DEGREE PLAN

Bachelor of Science, Mathematics, Data Science

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 3320 Linear Algebra	3
MATH 1497 Calculus II or MATH 2471 Calculus III	4	MATH 3311 Statistical Methods	3
LD UCA Core Course	3	MATH 2471 Calculus III (if not taken) or General Elective(s)	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 3392 Multivariate Analysis	3	MATH 4373 Regression Analysis	3
MATH 3381 Data Cleaning and Visualization	3	MATH Major Elective[3]	3
MATH Major Elective[3]	3	Minor Courses[4] or General Electives	9
Related Requirement (if needed) or Minor Course[4]	3-4		
General Elective	2-3		
Total	**15**	**Total**	**15**

Year 4

Fall — Semester 7		Spring — Semester 8	
Courses	**CH**	**Courses**	**CH**
MATH 4371 Introduction to Probability	3	MATH 4391 Machine Learning	3
Minor Courses[4] or General Electives	12	Minor Courses[4] (if needed) or General Electives	9
Total	**15**	**Total**	**12**

[3] At least one elective course must be selected from the following: MATH 3391, MATH 4372, MATH 4374, MATH 4392, or MATH 4381 when the topic is statistics.
[4] A minor in Computer Science is strongly encouraged.

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