

SAMPLE DEGREE PLAN

Bachelor of Science, Chemistry, ACS Certified: Biochemistry

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
CHEM 1450 College Chemistry I ¹	4	CHEM 1451 College Chemistry 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
MATH 1486 Calculus Preparation ¹ or MATH 1496 Calculus I ²	4	MATH 1496 Calculus I or MATH 1497 Calculus II	4
LD UCA Core First Year Seminar	3	BIOL 1440 Principles of Biology I	4
General Elective	1		
Total	15	Total	15

Year 2

Fall — Semester 3		Spring — Semester 4	
Courses	CH	Courses	CH
CHEM 2401 Organic Chemistry I	4	CHEM 3411 Organic Chemistry II	4
BIOL 1441 Principles of Biology II	4	PHYS 1441 University Physics 1	4
MATH 1497 Calculus II or MATH 2471 Calculus III	4	CHEM 3211 Organic Spectroscopy	2
LD UCA Core Course	3	MATH 2471 Calculus III (if not taken) or LD UCA Core Course	3-4
		General Elective(s)	1-2
Total	15	Total	15

¹ CHEM 1450 and MATH 1486 require 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 for these courses 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
CHEM 3520 Quantitative Analysis	5	CHEM 4335 Biochemistry II	3
CHEM 4320 Biochemistry I	3	CHEM 4121 Biochemistry Lab	1
PHYS University Physics 2	4	LD UCA Core Course	3
LD UCA Core Course	3	LD UCA Core Course	3
		BIOL 2490 Genetics	4
		LD UCA Core Course (if needed) or General Elective	3
Total	15	Total	17

Year 4

Fall — Semester 7		Spring — Semester 8	
Courses	CH	Courses	CH
CHEM Research	1	CHEM 4112 Seminar: Capstone	1
CHEM 4450 Physical Chemistry I	4	CHEM Research	1
CHEM 3360 Intermediate Inorganic Chemistry or General Elective	3	CHEM 4460 Physical Chemistry II	4
UD CHEM, BIOL, PHYS Elective	3	General Electives	4
General Elective(s)	4	CHEM 4380 Advanced Inorganic Chemistry (if CHEM 3360 not taken) or General Elective	3
Total	15	Total	13

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



06/03/26

SIGNED – DEPARTMENT CHAIR / SCHOOL DIRECTOR

DATE



06/04/26

SIGNED – COLLEGE DEAN

DATE