

Your Four Year Plan

Year One

Get acquainted with the biology faculty. Complete Introductory Biology (BIOL A121 and A122), General Chemistry (CHEM A111 and A112), and math requirements. Join a club or organization. Get involved with the campus community.

Year Two

In the fall complete Fundamental Genetics (BIOL A350) and a general education course such as Communication. This is a good time to take a foreign language and begin your cognate (Geology, Organic chemistry, Physics). Those interested in geology should take GEOL A101 (Physical Geology) or A103 (Environmental Earth Science), which are pre-requisites for all upper level geology courses. In the spring complete Ecology and Evolution (BIOL A370) and a biology lab course at the 300-level. Complete the foreign language requirement, and take a second cognate course. Those interested in a strong research background should speak with their professors and advisor about our undergraduate research program. Arrange to enroll in Biological Research I (BIOL A199) or II (BIOL A299) for elective credit.

Year Three

In the fall complete Elementary Biostatistics (BIOL A305), another biology lab course at the 300-level, and complete the cognate requirement. Work in two general education courses such as a social behavioral science or history. In the spring, complete two 500-level courses and two or more general education courses. Enroll in Biological Research III (BIOL A399) to gain a deeper, richer research experience. In the spring complete biology courses at the 500-level, along with two or more general edu-

Year Four

In the fall complete two additional biology courses at the 300 or 500 level. Fill the remainder of your schedule with remaining general education courses. In the spring complete the research requirement, enroll in Applied Research (BIOL A499) and Senior Seminar (BIOL A490) or Research Design (BIOL A498 – spring only). Complete any remaining biology degree requirement.

Bachelor of Science

Biology

Molecular Biology Concentration



UofSC Aiken

Biology and Geology

Information about the Major

The Department of Biology and Geology is home to some 250 biology majors, who work with a dedicated and talented group of 15 faculty members, to develop expertise in their chosen field of study. Biology majors have a variety of degree choices, including a Bachelor of Science and Bachelor of Arts, as well as a more specialized Bachelor of Science degree with a concentration in Environmental Remediation and Restoration or Molecular Biology. Students pursuing a Bachelor of Science or Bachelor of Arts degree may do so using informal advisement tracks in Molecular/Cellular Biology, Environmental Science, pre-Medicine, pre-Dentistry, pre-Veterinary Medicine, or General Biology. Additionally, we offer a minor in Geology as well as transferable coursework into a Geology major.



The Biology experience at UofSC Aiken is grounded in coursework supplemented with the actual experience of putting biological concepts into practice in the laboratory.

- Dr. Bill Jackson, Department Chair

To learn more about the Biology program visit us online.



UofSC Aiken

Biology and Geology

<https://www.usca.edu/biology-geology>



Academic Advising

Collytte Medders

Professional STEM Academic Advisor

Connect with Collytte!

Email: Collyttec@usca.edu

Office Phone: 803-643-6819

Name: _____

VIP ID: _____

General Education:			
Course Requirement	Credit Hours	Semester	Grade
English (6 hrs.)			
ENGL A101– Composition *	3		
ENGL A102-Composition & Literature *	3		
History of Western Civilization (HIST A101 or A102)			
HIST A10__	3		
Foreign Language (6-8 hrs. of same language)			
*	3-4		
+	3-4		
Oral Communication (COMM A201 or A241)			
COMM A ____*	3		
Mathematics (6-7 hrs. —MATH A122 or A141 Required)			
+	3-4		
Additional hours to be taken from math/statistics/logic			
+*	3-4		
Social and Behavioral Sciences (6 hrs. —2 areas)			
	3		
	3		
Humanities (9 hrs.—two different areas)			
	3		
	3		
	3		
American Political Institutions (POLI A201, HIST A201, HIST A202)			
	3		
Natural Sciences (8 hrs.)			
CHEM A111 General Chemistry I *+	4		
CHEM A112 General Chemistry II*+	4		
<i>Three hours from Social & Behavioral Sciences or Humanities must be in Non-Western Studies</i>			

The Center for Student Achievement

The staff in the Center for Student Achievement want you to be successful in your experience at USC Aiken. If there is something you need assistance with, please contact our office. The Center for Student Achievement is located on the first floor of the Gregg Graniteville Library behind the Learning Commons in suite 106.

Course Requirements–B.S. Biology (Molecular Biology): 2022—2023

Major Requirements:			
Core Requirements (17 hours)	Credit Hours	Semester	Grade
BIOL A121 Biological Science I *	4		
BIOL A122 Biological Science II *	4		
BIOL A350 Fundamental Genetics I *+	3		
BIOL A318 or A370 *+	3		
BIOL A405 Elementary Biostatistics *+	3		
Choose one of the following Lab Designated Courses: BIOL A302, A312, A216, A320, A325, A330, A335,			
BIOL A __ *+	4		
Capstone Research Project and Senior Seminar			
BIOL A490 or GEOL A490 Senior Seminar	1		
BIOL A499 or GEOL A499 Research/Independent Study	3		
Cognate in Molecular Biology			
CHEM A331 and 331L Organic Chemistry I *+	4		
PHYS A201 General Physics I *+	4		
CHEM A332 & A332L, CHEM A550, or PHYS A202 *+	4		
Concentration in Molecular Biology			
BIOL A330 Microbiology *+	4		
BIOL A340 Virology *+	4		
BIOL A325 Plant Physiology or A360 Animal Physiology *+	4		
BIOL A502 Advanced Cell/Molecular Biology *+	3		
BIOL A541 Principles of Biochemistry *+	4		
BIOL A550 Immunology *+	4		
Electives (7-14 hours)			

Inter-Curricular Events (ICE)		
Events for Graduation (16)		
1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16	Shade in as you go!	

WPP Date:	
WPP Score:	

Non-Western Course (1 course)	
Semester:	

Writing-Intensive Courses	
Required for Graduation (3)	
Semester:	
Semester:	
Semester:	
Mark as you go!	

*must pass course with "C" or better
+pre-rec required

Academic Advisors
Advisor One (Fill in below)
Advisor Two (Fill in below)