

### Biology Major (48 credit hours)

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Through the integration of faith and learning, the Department of Biology strives to give students a breadth of foundational knowledge that will serve them, whether they plan to teach or to continue their own education in medical or dental school or other graduate degree programs. The biology department is dedicated to providing students with a well-rounded background in the field of biology. Students can concentrate their studies in various areas of biology by taking courses such as anatomy, physiology, histology, mammalian physiology, molecular biology, plant science, and environmental ecology.

If continuing to medical school, graduate school, or pursuing an industry career the student should speak with a Biology advisor for additional recommended classes.

#### **Major Requirements:**

BIOL 2230, 3800, and 4700 do not apply toward the major.

28 credit hours from:

- BIOL 2210, Foundations of Modern Biology I, 4 credit hours
- BIOL 2220, Foundations of Modern Biology II, 4 credit hours
- BIOL 2240, Cell Biology, 4 credit hours
- BIOL 3030, Microbiology, 4 credit hours
- BIOL 3510, Bioethics OR BIOL 3920, Integration of Faith and Science, 2 credit hours
- BIOL 4050, Genetics, 4 credit hours
- BIOL 4070, Ecology and Evolutionary Biology, 4 credit hours
- BIOL 4910, Science Seminar I, 1 credit hour
- BIOL 4920, Science Seminar II, 1 credit hour

8 credit of upper-division BIOL courses:

- Completion of both BIOL 2410 and 2420 will substitute for 4 credit hours of upper division biology
- CHEM 2110, General Chemistry I, 4 credit hours
- CHEM 2120, General Chemistry II, 4 credit hours
- CHEM 2210, Organic Chemistry I, 4 credit hours
- At least one course from CHEM 2120, 2220, 3100

Additional CHEM courses, especially CHEM 2220 and 3100 are strongly recommended.

If continuing to medical or graduate school, or pursuing an industry career, the student should speak with a Biology advisor for additional recommended classes.

**NOTE:** All students must complete 120 total credit hours to graduate from Anderson University.

Questions? Please contact the [Department of Biology](#).

Proposed 4-year course sequence:

- Freshman: BIOL 2210, CHEM 2110; BIOL 2220, CHEM 2120
- Sophomore: BIOL 3030, CHEM 2210; BIOL 2240, CHEM 2120/2220/3100
- Junior: BIOL 4050; BIOL 4070, BIOL 3510 or 3920
- Senior: BIOL 4910, Major Elective; BIOL 4920, Major Elective

Biology Major (BA) 4 Year Suggested Course Sequence

SEMESTER 1		SEMESTER 2	
BIOL 2210	4 Hours	BIOL 2220	4 Hours
CHEM 2110	4 Hours	CHEM 2120	4 Hours
ENGL 1100/ENGL 1110	3-4 Hours	ENGL 1120	3 Hours
LART 1050	1 Hour	Quantitative Reasoning	3 Hours
Foreign Language	4 Hours		

SEMESTER 3		SEMESTER 4	
BIOL 3030	4 Hours	BIOL 2240	4 Hours
CHEM 2210	4 Hours	CHEM 2120/2220/3100	4 Hours
Global/Intercultural	3 Hours	Social & Behavioral Ways of Knowing	3 Hours
BIBL 2000	3 Hours	COMM 1000	3 Hours
		Additional Class	3 Hours

SEMESTER 5		SEMESTER 6	
BIOL 4050	4 Hours	BIOL 4070	4 Hours
Christian Ways of Knowing	3 Hours	BIOL 3510 or 3920	2 Hours
Aesthetic Ways of Knowing	3 Hours	Civic Ways of Knowing	3 Hours
Personal Wellness	2 Hours	Additional Class	3 Hours
Additional Class	3 Hours	Additional Class	3 Hours

SEMESTER 7		SEMESTER 8	
BIOL 4910	1 Hour	BIOL 4920	1 Hour
Major Elective	4 Hours	Major Elective	4 Hours
Additional Class	3 Hours	Additional Class	3 Hours
Additional Class	3 Hours	Additional Class	3 Hours
Additional Class	3 Hours	Additional Class	3 Hours
Additional Class	3 Hours		

Questions? Please contact the [Department of Biology](#).

Proposed 3-year course sequence:

Freshman: BIOL 2210, CHEM 2110; BIOL 2220, CHEM 2120

Sophomore: BIOL 3030, CHEM 2210; BIOL 2240; BIOL 3510/3920, CHEM 2120/2220/3100

Junior: BIOL 4050, BIOL 4910, Major Elective; BIOL 4920, BIOL 4070, Major Elective

**Biology Major (BA) 3 Year Suggested Course Sequence**

SEMESTER 1		SEMESTER 2	
BIOL 2210	4 Hours	BIOL 2220	4 Hours
CHEM 2110	4 Hours	CHEM 2120	4 Hours
ENGL 1100/ENGL 1110	3-4 Hours	ENGL 1120	3 Hours
LART 1050	1 Hour	Social & Behavioral Ways of Knowing	3 Hours
MATH 2010	4 Hours	Personal Wellness	2 Hours

SUMMER 1	
COMM 1000	3 Hours
Additional Class	3 Hours
Additional Class	3 Hours

SEMESTER 3		SEMESTER 4	
BIOL 3030	4 Hours	BIOL 2240	4 Hours
CHEM 2210	4 Hours	BIOL 3510 or 3920	2 Hours
Foreign Language	4 Hours	CHEM 2120/2220/3100	4 Hours
Additional Class	3 Hours	Aesthetic Ways of Knowing	3 Hours
Additional Class	3 Hours	Additional Class	3 Hours

SUMMER 2	
Global Ways of Knowing	3 Hours
Civic Ways of Knowing	3 Hours
Additional Class	3 Hours

SEMESTER 5		SEMESTER 6	
BIOL 4050	4 Hours	BIOL 4070	4 Hours
BIOL 4910	1 Hour	BIOL 4920	1 Hour
Major Elective	4 Hours	Major Elective	4 Hours
BIBL 2000	3 Hours	Christian Ways of Knowing	3 Hours
Additional Class	3 Hours	Additional Class	3 Hours
Additional Class	3 Hours	Additional Class	3 Hours

Questions? Please contact the [Department of Biology](#).