

# BA in Biological Sciences

(Effective Fall 2021)



Freshman Fall Semester				Freshman Spring Semester			
Course	Course Name	Cr	Grade	Course	Course Name	Cr	Grade
BIOL-101	General Biology I	4		BIOL-102	General Biology II	4	
CHEM-101	General Chemistry I	4		CHEM-102	General Chemistry II	4	
ENGL-101	English Composition I	3		ENGL-102	English Composition II	3	
	Social Science	3		MTSC-122	Trigonometry	3	
BIOL-191	University Seminar I	1		BIOL-192	University Seminar II	1	
	Total Credits	15			Total Credits	15	
Sophomore Fall Semester				Sophomore Spring Semester			
Course	Course Name	Cr	Grade	Course	Course Name	Cr	Grade
BIOL-215	Cell Biology	4		BIOL-210	Genetics*	4	
CHEM-301	Organic Chemistry I	4		CHEM-302	Organic Chemistry II	4	
MVSC-101	Fitness and Wellness	2			Literature#	3	
BIOL 321	Biostatistics	3			History#	3	
ENGL-200	Speech	3		BIOL-299	Applied Scientific Writing	1	
	Total Credits	16			Total Credits	15	
Junior Fall Semester				Junior Spring Semester			
Course	Course Name	Cr	Grade	Course	Course Name	Cr	Grade
BIOL-310	Molecular Biology*	4		CHEM-403	Biochemistry OR	--	
BIOL-xxx	Biology Elective	4		BIOL-422	Biochemical Mechanisms	4	
BIOL-xxx	Biology Elective	4		GLOB-395	Global Societies	3	
XXX	Open elective	4		XXX	Open Elective	4	
				BIOL-xxx	Biology Elective	4	
	Total Credits	16			Total Credits	15	
Senior Fall Semester				Senior Spring Semester			
Course	Course Name	Cr	Grade	Course	Course Name	Cr	Grade
	Arts and Humanities#	3			Arts and Humanities#	3	
BIOL-xxx	Biology Elective	4		BIOL-xxx	Biology Elective	4	
BIOL-xxx	Biology Elective	4			Open Elective	3	
	Open Elective	3			Open Elective	3	
				BIOL-452	Senior Capstone II <sup>§</sup>	1	
	Total Credits	14			Total Credits	15	

**Total Credits: 120**

\* Writing Intensive Course(s)

# One of these courses must be used to meet the African American Experience requirement and at least one of the others must meet the Multicultural Experience requirement

§ BIOL 452 is the culminating course for the BA in General Biology. Students will write a thesis paper on a topic related to one of their biology elective courses.

**BIOLOGY ELECTIVES:** Students must not take less than 18 credits of Biology courses from the course elective list below. These are the only ones that can satisfy the Biology elective requirement for this concentration. Substitutions can be requested, under special circumstances, but written approval of advisor and Chair is needed in advance.

**REQUIREMENTS:** Students must take each of the five biology core courses (201, 202, 215, 210 and 310) in order and earn a “C” or higher in each before being able to progress to the next in the sequence or to take any 300 or 400 level Biology Department course. These grade requirements take precedence over, and supersede any lesser specific prerequisites of all 300 or 400 level Biology electives.

**SPECIAL NOTES:**

**For all programs and concentrations, a grade of “C” or better is required for all courses on the BA Biology curricula.**

**The BA in Biological Sciences requires that students complete BIOL 452 during their senior year, no waivers or substitutions allowed. Students will write a mentored thesis paper on a topic related to a biology elective of their choice.**

**General Note:** The minimum University requirement for graduation is 121 hours; in Biology you will usually complete between 121-125 hours depending on selections.

**General Biology<sup>^</sup>**

**Recommended Biology Electives:**

BIOL-307 Principles of Physiology  
BIOL-315 Behavior  
BIOL-316 Phys Reprod Dev  
BIOL-322 Microbiology  
BIOL-370 Human Anatomy  
BIOL-407 Biology of Cancer  
BIOL-411 Pharmacology  
BIOL-420 Immunology

**Recommended Open Electives:**

AGRI-205 Plant Physiology  
AGRI-206 Intro Animal Science  
AGRI 375 Molec Genetics & Genomics  
NTRS-205 Ecology  
NTRS-314 Ichthyology  
PSYC-201 General Psychology  
PSYC-208 Health Psychology  
PSYC-300 Neuropsychology

<sup>^</sup> Electives not on the list require advisor / Chair written approval in advance. Non-majors biology courses are not suitable electives for Biology Majors, and will not be approved.