

BS in Biological Sciences
Health Professions Concentration
 (Effective Fall 2023)



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-121	Rhetoric and Composition I	2		ENGL-123	Rhetoric and Speech	3	
ENGL-122	Rhetoric and Composition II	2		ENGL-124	Rhetoric, Research, & Comp III	2	
UNIV-191	University Seminar I	1		MTSC-122	Trigonometry	3	
SCCJ-101	Introduction to Sociology	3					
	Total Credits	16			Total Credits	16	
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-210	Organic Chemistry I	4		CHEM-211	Organic Chemistry II	4	
MTSC-261	Calculus for Life Sciences	4			Literature#	3	
UNIV-291	Braven	3		PSYC-201	General Psychology	3	
				BIOL-399	Professional Scientific Writing	1	
	Total Credits	15			Total Credits	15	
Summer Research / Clinical Experience							
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-307	Principles of Physiology	4		BIOL-422	Biochemical Mechanisms	4	
PHYS-211	Fundamentals of Physics I	4		PHYS-212	Fundamentals of Physics II	4	
BIOL-321	Biostatistics	3		BIOL-370	Human Anatomy	4	
				BIOL-301 or 451	Capstone I (research/internship)**	2	
	Total Credits	15			Total Credits	14	
Summer Research / Clinical Experience							
Senior Fall Semester				Senior Spring Semester			
Course	Course Name	Cr	Grade	Course	Course Name	Cr	Grade
	Arts and Humanities#	3		PHIL-xxx	Philosophy course (Humanities)	3	
BIOL-xxx	Biology Elective	4		BIOL-xxx	Biology Elective	4	
BIOL-xxx	Biology Elective	4		GLOB-395	Global Societies	3	
	History#	3			Open Elective	4	
KINE-212	Medical Terminology	3		BIOL-499	Senior Seminar (Capstone II) [§]	1	
	Total Credits	17			Total Credits	15	

Total Credits: 123

** Pre-requisite (not co-requisite) for BIOL 499.

* 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

§ Registration for BIOL 499 requires approval of Chair of the Undergraduate Academics Committee, Department Chair, and Instructor.

A grade of C or better must be earned in all courses

BIOLOGY ELECTIVES: Students must take no fewer than 12 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 require written approval of advisor and Chair in advance.

REQUIREMENTS: Students must take each of the five biology core courses (101, 102, 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 in the Department of Biological Sciences, a grade of “C” or better is required for all courses.

All Biology majors must complete an independent research project or internship. Those who have completed a research project with a faculty member should register for BIOL 301. Students who have not completed a research project, or their internship is inadequate, must register for BIOL-451 to complete a Capstone research project.

All Biology majors are required to successfully complete Senior Seminar (Capstone II, BIOL-499), no waivers or substitutions. Registration for BIOL 499 requires completion of BIOL 301 or BIOL 451 (cannot co-register).

General Note: The minimum University requirement for graduation is 120 hours; in Biology you will usually complete between 121-125 hours depending on selections.

Health Professions

Biology Electives:

BIOL-311 Neuroscience
BIOL-315 Behavior
BIOL-316 Phys. of Reproduction and Devel
BIOL-317 Principles of Virology
BIOL-322 Microbiology
BIOL-324 Medical Microbiology
BIOL 407 Biology of Cancer
BIOL 408 Pathophysiology
BIOL 411 Pharmacology
BIOL 420 Immunology
BIOL 442 Biology of Aging

Open Electives:

PSYC-208 Health Psychology
PSYC-300 Neuropsychology
PSYC-316 Developmental Psychology
PSYC-402 Abnormal Psychology
KINE 302 Fundamentals of Kinesiology
KINE 319 Biomechanics

^ 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.