

**BS in Biological Sciences  
Health Professions Concentration  
(Effective Fall 2019)**

				<b>Freshman Spring Semester</b>			
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	
<b>ENGL-101</b>	<b>English Composition I</b>	3		<b>ENGL-102</b>	<b>English Composition II</b>	3	
<b>PSYC-201</b>	<b>General Psychology</b>	3		<b>MTSC-122</b>	<b>Trigonometry</b>	3	
<b>BIOL-191</b>	<b>University Seminar I</b>	1		<b>BIOL-192</b>	<b>University Seminar II</b>	1	
	Total Credits	15			Total Credits	15	
<b>Sophomore Fall Semester</b>				<b>Sophomore Spring Semester</b>			
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	
<b>MVSC-101</b>	<b>Fitness and Wellness</b>	2			<b>Literature<sup>#</sup></b>	3	
MTSC-261	Calculus for Life Sciences	4		<b>ENGL-200</b>	<b>Speech</b>	3	
SCCJ-101	Introduction to Sociology	3		BIOL-399	Professional Scientific Writing	1	
	Total Credits	17			Total Credits	15	
<b>Summer Research / Clinical Experience</b>							
<b>Junior Fall Semester</b>				<b>Junior Spring Semester</b>			
Course	Course Name	Cr	Grade	Course	Course Name	Cr	Grade
BIOL-310	Molecular Biology*	4		CHEM-403	Biochemistry <b>OR</b>	--	
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-451	Capstone I (research/internship)**	2	
	Total Credits	15			Total Credits	14	
<b>Summer Research / Clinical Experience</b>							
<b>Senior Fall Semester</b>				<b>Senior Spring Semester</b>			
Course	Course Name	Cr	Grade	Course	Course Name	Cr	Grade
	<b>Arts and Humanities<sup>#</sup></b>	3		<b>PHIL-xxx</b>	<b>Philosophy course (Humanities)</b>	3	
BIOL-xxx	Biology Elective	4		BIOL-xxx	Biology Elective	4	
BIOL-xxx	Biology Elective	4		<b>GLOB-395</b>	<b>Global Societies</b>	3	
	<b>History<sup>#</sup></b>	3			Open Elective	4	
KINE-212	Medical Terminology	3		BIOL-499	Senior Seminar ( <b>Capstone II</b> ) <sup>§</sup>	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.

**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 (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 Biology and other CAST courses (not bolded).

All Biology majors must complete an independent research project or internship. Those who have completed a research project with a faculty member (e.g. BIOL-301 for credit, or via a paid stipend) prior to the beginning of their senior year can be exempted from the required Senior Capstone I course. If the project was an internship at another institution, this must be approved by the advisor/Department Chair in advance. If they have not completed a research project, or their internship is inadequate, then they 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.

**General Note:** The minimum University requirement for graduation is 121 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  
Medical Microbiology  
BIOL 411 Pharmacology  
BIOL 407 Biology of Cancer  
BIOL 408 Pathophysiology  
BIOL 429 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.