

Biology, B.S. Pre-Professional Concentrations 2023–24 Catalog

This example plan is designed to provide a blueprint for students to complete their degrees within four years. It includes recommended sequences of courses. Individual plans will vary based on previously earned credit, such as Dual Enrollment and AP credit, as well as the student's academic goals. Students will work with an academic advisor to develop a more individualized plan to complete their degree.

This example four-year plan is applicable to students admitted during the 2023–24 academic year.

Total Credits Required: 120 credits

Required GPA for Graduation: 2.0 (institutional)

Courses requiring a C or better are denoted with an asterisk (*). Legend is available on the last page of this document.

	Year 1							
	Fall	Spring						
Course	Title	Hours	Area	Course	Title	Hours	Area	
BIOL 0001	First-Year Academic Seminar	1		BIOL 1108* BIOL 1108L*	Principles of Biology II & Lab (pre-reqs to BIOL 2800 and 3700)	4	F	
ENGL 1101*	English Composition I (pre-req to ENGL 1102)	3	А	ENGL 1102	English Composition II	3	А	
BIOL 1107* BIOL 1107L*	Principles of Biology I & Lab (pre-reqs to BIOL 2100, 2800, 3400, and 3700)	4	F	MATH 1113*	Precalculus (pre-req to MATH 1261, MATH 1401, and PHYS 1112)	4	А	
CHEM 1211K*	Principles of Chemistry I & Lab (pre-req to CHEM 1212K and 3361)	4	D	CHEM 1212K*	Principles of Chemistry II & Lab	4	D	
GC1Y 1000	Critical Thinking (pre-req to GC2Y 2000)	3	В					
	Semester Hours	15			Semester Hours	15		
Area A and GC1Y 1000 must be completed by 30 earned hours.Notes:First-Year Academic Seminar is a graduation requirement and impacts a student's GPA; however, it does not count toward the minimum of 120 semester hours required for a degree. MATH 1113 or higher, passed with a C or better, is required for Area A Math for biology majors.								

Year 2							
	Fall	Spring					
Course	Title	Hours	Area	Course	Title	Hours	Area
BIOL 2100*	Genetics (pre-req to BIOL 3200)	4	F	BIOL 2800*	Ecology	4	F
CHEM 3361* CHEM 3361L*	Organic Chemistry I & Lab (pre-reqs to CHEM 3362)	4	Cognate	CHEM 3362* CHEM 3362L*	Organic Chemistry II & Lab (pre-reqs to CHEM 3711)	4	Elective
Core Area C	Humanities and Ethics (student's choice)	3	С	GC2Y 2000	Global Perspectives	4	В
Core Area E	Social Science (student's choice)	3	E	Core Area E	Social Science (student's choice)	3	E
Gen Elective	Any general elective course	3	Elective				
	Semester Hours	17			Semester Hours	15	
Summer Consider study abroad over summer to complete requirements (e.g., GC2Y 2000)							
Notes:	s: BIOL 2100, BIOL 2800, and GC2Y 2000 must be taken between 30–59 earned hours. General electives can be in any discipline and any level (1000–4999).						

Year 3										
	Fall	Spring								
Course	Title	Hours	Area	Course	Title	Hours	Area			
BIOL 3200*	Cellular & Molecular Physiology	3	Major	BIOL 3000*	Seminar	2	Major			
MATH 1261	Calculus I									
or	or	4	D	CHEM 3711*	Biochemistry	3	Elective			
MATH 1401	Elementary Statistics									
PHYS 1111*	Intro to Physics I & Lab	4	Cognate	PHYS 1112*	Intro to Physics II & Lab	4	F			
PHYS 1111L*	(pre-reqs to PHYS 1112)	4		PHYS 1112* PHYS 1112L*						
Lang 1001*	World Language I (1001-level)	3		Lang 1002*	World Language II (1002-level)	3	Foreign Lang			
BIOL 3700*	Evolution	3	Major	BIOL 3400*	Organismal Physiology	3	Major			
	Semester Hours	17			Semester Hours	15				
Summer	Summer Consider completing capstone intership or study abroad. Consider interships, shadowing, and volunteering.									
MATH 1401 is a 3 credit hour course. Students who choose that option will earn 16 credit hours for fall semester, not 17.							ot 17.			
	BIOL 3000 should be taken after at least 59 hours earned.									
Notes:	Students must complete a world language course at the 1002 level or higher. Complete the WebCAPE exam to determine									
	placement for first course.									

Year 4								
Fall				Spring				
Course	Title	Hours	Area	Course	Title	Hours	Area	
BIOL Course*	3000- or 4000-level BIOL course	4	Major	BIOL Course*	3000- or 4000-level BIOL course	4	Major	
BIOL Course*	3000- or 4000-level BIOL course	4	Major	BIOL Course*	3000- or 4000-level BIOL course	4	Major	
Capstone*	Capstone	3	Capstone	BIOL Course*	3000- or 4000-level BIOL course	4	Major	
Core Area E	Social Science (student's choice)	3	E	Core Area C	Fine Arts (student's choice)	3	С	
	Semester Hours	14			Semester Hours	15		
Notes:	Capstone options: Course, internship, study abroad (with chair approval), or research (this option is two semesters).							
	Begin applying to professional school programs.							

	Legend				
Area	This section of the plan references the area of the curriculum the course fulfills.				
A	Core Area A: Essential Skills				
В	B Core Area B: Institutional Options				
С	Core Area C: Humanities, Ethics, and Fine Arts				
D	D Core Area D: Science, Technology, and Math				
E	Core Area E: Social Sciences				
F	Core Area F: Major Directed Core Requirements				
Major	Biology Major Requirements				
Elective Course(s) a student selects. Hours are needed to meet overall graduation hours. Number of electives varies pe					
Elective Electives can be used toward professional school pre-requisites, GC Journeys, or minors, or to take course					
Cognete	Cognate courses are required courses within a student's curriculum. These courses are connected to the major but may be				
Cognate	from other academic disciplines.				