

Atlanta Metropolitan State College

Bachelor of Science in Biological Science

Freshman Year													
Fall Semester				Spring Semester				Freshman Year Total Credit Hours					
Areas	Course #	Course Name	Credit Hours	PREQ	Course #	Course Name	Credit Hours		PREQ				
Area A Essential Skills	ENGL 1101	English Composition I	3		ENGL 1102	English Composition II	3						
	MATH 1113	Pre-Calculus	3										
Area B AMSC Institutional Requirement					AMIR 1001	Thinking, Learning and Communicating in Contemporary Society	4						
Area C Humanities & Fine Arts										MATH 2201	Analytic Geometry and Calculus I	4	
Area D Science, Math. & Technology													
Area E Social Sciences	POLS 1101	American Government	3		HIST 2111 or 2112	United States History I or II	3						
Area F Program of Study Courses	BIOL/BLAB 1107	Principles of Biology I + Laboratory	4		BIOL/BLAB1108	Principles of Biology II + Laboratory	4						
Total Hours			13		Total Hours			18	31				

Sophomore Year									
Fall Semester				Spring Semester				Sophomore Year Total Credit Hours	
Course #	Course Name	Credit Hours	PREQ	Course #	Course Name	Credit Hours	PREQ		
Area A Essential Skills									
Area B AMSC Institutional Requirement									
Area C Humanities & Fine Arts	Fine Arts	Elective	3		Humanities	Elective	3		
Area D Science, Math. & Technology	PHYS/PLAB1111	Introductory Physics I+ Lab	4		PHYS/PLAB1112	Introductory Physics II + Laboratory	4		
Area E Social Sciences	PSYC 1101	Introduction to Psychology	3		Social Science	Elective	3		
Area F Program of Study Courses	CHEM /CLAB 1211	Principles of Chemistry I + Laboratory	4		CHEM/CLAB1212	Principles of Chemistry II + Laboratory	4		
Total Hours			14		Total Hours			14	28

Note: *This program map is to be used as a general guide—it does not guarantee course availability.*

- Must take prerequisite before enrolling
 Course serves as a prerequisite
 + Minimum grade of "C" required
 * Recommended Elective
 ** Elective selected in consultation with Academic Advisor

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Junior Year								
	Fall Semester				Spring Semester			
	Course #	Course Name	Credit Hours	Prereq	Course #	Course Name	Credit Hours	Prereq
Area G 3000 & 4000 Level Courses	CHEM2241/CLAB 2241	Organic Chemistry I + Lab	4		BIOL 4001 or 4002	Undergraduate Research I or Biology Seminar I	1	
	BIOL 3011	Principles of Microbiology	4		BIOL 4011	Vertebrate Physiology	4	
	BIOL 3245	Research Design and Instrumentation	3		BIOL 4201	Cell Biology	4	
	BIOL 3009	Comparative Anatomy	4		CHEM2242/CLAB224 2	Organic Chemistry II + Lab	4	
	BIOL 3205	Biostatistics	3			Biological Science Elective (Choose ONE)		
					BIOL 2225	Invertebrate Zoology	4	
					BIOL 3111	Field Ecology	4	
	Total Hours		18		Total Hours		17	
								Junior Year Total Credit Hours
								35

Note: *This program map is to be used as a general guide—it does not guarantee course availability.*

Senior Year								
	Fall Semester				Spring Semester			
	Course #	Course Name	Credit Hours	Prereq	Course #	Course Name	Credit Hours	Prereq
Area H 3000 & 4000 Level Courses	BIOL 4003/4004	Undergraduate Research II or Biology Seminar II	1		BIOL 4005/4006	Undergraduate Research III or Biology Seminar III	1	
	BIOL 4205	Biochemistry	3		BIOL 4211	Genetics	3	
	BIOL 4000	Molecular Biology	4			Restricted Electives (Choose ONE)		
		Biological Science Elective (Choose TWO)	3		Biol 4207	Medical Microbiology	4	
	BIOL 4203	Neurobiology	3		BIOL 4209	Biotechnology	4	
	BIOL 3117	Virology	3		BIOL 3007	Embryology	4	
	BIOL 4010	Evolution	3			Biological Science Elective (Choose ONE)		
	BIOL 2203	Plant Science	3		BIOL 3114	Principles of Immunology	3	
					BIOL 3003	Marine Biology	3	
					BIOL 3113	Nutrition	3	
	Total Hours		14		Total Hours		12	
								Senior Year Total Credit Hours
								26

Must take prerequisite before enrolling
 Course serves as a prerequisite
 + Minimum grade of "C" required
 * Recommended Elective
 ** Elective selected in consultation with Academic Advisor