



**Interamerican University of Puerto Rico
Guayama Campus
Natural Science Department and Technology**

**Curriculum Sequence
Requirements for the Bachelor of Science Degree in Biology (CODE 180)**

General Education Requirements	42 credits
Major Requirements	36 credits
Credits Related Requirement	29-30 credits
Prescribed Distributive	12 credits
Elective Course	3 credits
Total	122-123 credits

First Year								
Semester I	A	P	Cr.	Semester II	A	P	Cr.	
BIOL 1103 Biology Skills Laboratory I			1	BIOL 1102 - General Biology II			3	
GEMA 1200 – Fundamental of algebra			3	BIOL 1104 - Biology Skills Lab II			1	
BIOL 1101 - General Biology I			3	MATH1500 - Pre-calculus I			5	
GESP 1101- English as Second Language I Oral Communication				GESP 1102- English as Second Language II Reading				
GESP 1101- Literature and Communication: Narrative and Poetry			3	GEEN 1102 - Literature and Communication: Essay and Theatre			3	
GECF 1010 - Introduction to the Christian Faith			3	GEIC1010- Information and Computing Technologies			3	
Total Credits			16	Total Credits			18	
Second Year								
Semester I	A	P	Cr.	Semester II	A	P	Cr.	
BIOL 2103 - Zoology			3	GEPE 3010 o GEPE 3020 o GEPE 3030 (select one course)			3	
CHEM 1111- General Chemistry			4	CHEM 2212 – General Chemistry II			4	
BIOL 3105 - General Microbiology			4	GEEN 1103 - English as Second Language III: Writing			3	
GESP 2203 - Literature and World View			3	BIOL 2104 - Botany			3	
				BIOL _____ Prescribed Distributive			3	
Total Credits			14	Total Credits			17	

Third Year								
Semester I	A	P	Cr.	Semester II	A	P	Cr.	
BIOL 3010 - Genetic			3	BIOL 3106 - Human Anatomy and Physiology			4	
CHEM 2221- Organic Chemistry I			4	BIOL 3503 - Ecology			3	
Select one course: GEHS 3020 Global Society GEHS 3050 Human Formation, Society, and Culture GEHS 4020 Ancient and Medieval Western Civilization GEHS 4030 Modern and Contemporary Western Civilization			3	GEHS 2010 – Historical Process of Contemporary Puerto Rico			3	
GEEC 2000 Entrepreneurial Culture			3					
Elective Course			3	CHEM 2222 - Organic Chemistry II			4	
Total Credits			14	Total Credits			14	

Fourth Year								
Semester I	A	P	Cr.	Semester II	A	P	Cr.	
BIOL _____ Prescribed Distributive			3	PHYS 3002 - General Physics II			4	
PHYS 3001- General Physics I			4	BIOL 4604 - Cellular and Molecular Biology			3	
BIOL _____ Prescribed Distributive			3	BIOL 4605 - Cellular and Molecular Biology Skills Laboratory			2	
Select one course: GEHS 3020 Global Society GEHS 3050 Human Formation, Society, and Culture GEHS 4020 Ancient and Medieval Western Civilization GEHS 4030 Modern and Contemporary Western Civilization			3	BIOL _____ Prescribed Distributive			3	
BIOL 2153 - Biostatistics			3	GEPE 4040 – Ethics and Social Responsibility			3	
Total Credits			16	Total Credits			15	

* Courses Prescribe Distributive- in the *next page*

Prescribe Distributive

Students will select 12 credits from the following courses:

<u>BIOL 2800</u>	Astrobiology	3
<u>BIOL 3100</u>	Foundations of Animal Science	3
<u>BIOL 3200</u>	Foundations of Animal Nutrition	3
<u>BIOL 3213</u>	Parasitology	3
<u>BIOL 3214</u>	Entomology	3
<u>BIOL 3216</u>	Animal Behavior	3
<u>BIOL 3219</u>	Biology of Invertebrates	3
<u>BIOL 3220</u>	Biochemistry	3
<u>BIOL 3309</u>	Food Microbiology	3
<u>BIOL 3405</u>	Immunology	3
<u>BIOL 3504</u>	Environmental Health	3
<u>BIOL 3505</u>	Environmental Laws, Policies and Regulations	3
<u>BIOL 3601</u>	Comparative Anatomy and Physiology I	3
<u>BIOL 3602</u>	Comparative Anatomy and Physiology li	3
<u>BIOL 3904</u>	Toxicology	3
<u>BIOL 4105</u>	Fundamentals of Geographic Information Systems (GIS)	3
<u>BIOL 4109</u>	General Physiology	3
<u>BIOL 4303</u>	Mycology	3
<u>BIOL 4304</u>	Medical Mycology	3
<u>BIOL 4305</u>	Medical Microbiology	3
<u>BIOL 4306</u>	Virology	3
<u>BIOL 4307</u>	Microtechniques	2

<u>BIOL 4403</u>	Evolution	3
<u>BIOL 4405</u>	Embryology	3
<u>BIOL 4407</u>	Human Anatomy	3
<u>BIOL 4433</u>	Industrial Microbiology	3
<u>BIOL 4494</u>	Pharmacology	3
<u>BIOL 4503</u>	Conservation and Management Of Natural Resources	3
<u>BIOL 4600</u>	Histology	3
<u>BIOL 4905</u>	Introduction to Pathology	3
<u>BIOL 4909</u>	Public Health	3
<u>BIOL 4912</u>	Practicum in Biology	3
<u>BIOL 4953</u>	Research Methods	3
<u>BIOL 4955</u>	Integration Seminar	1
<u>BIOL 4960</u>	Bioethics	3
<u>CHEM 3320</u>	Analytical Chemistry	4
<u>CHEM 4220</u>	Biochemistry	4
<u>MASC 3600</u>	Marine Biology	3
<u>MASC 3603</u>	Marine Biology Laboratory	1
<u>MASC 3620</u>	Ichthyology	3
<u>MASC 4030</u>	Coral Reef Ecology	3
<u>MASC 4040</u>	Biology of Marine Mammals, Birds and Turtles	3
<u>MATH 2251</u>	Calculus I	5