



Interamerican University of Puerto Rico  
Aguadilla Campus  
Department of Science Technology

## Sequential Bachelor of Science in Biology

Effective Date: 2018

### FIRST YEAR – FIRST SEMESTER

<b>CODE</b>	<b>COURSE</b>	<b>CRS.</b>
BIOL 1101	General Biology I (concurrent requirement BIOL 1103)	3
BIOL 1103	Biology Skills Laboratory I (concurrent requirement BIOL 1101)	1
GEEN 1101 GEEN 1201 GEEN 2311	English I (One of them according to the results of the College Board)	3
GEIC 1010	Information and Computer Technologies	3
GEMA 1200	Fundamentals of Algebra	3
GESP 1101	Literature and Communication: Narrative and Poetry	3
<b>TOTAL</b>		<b>16</b>

### FIRST YEAR – SECOND SEMESTER

<b>CODE</b>	<b>COURSE</b>	<b>CRS.</b>
BIOL 1102	General Biology II (BIOL requirement 1101 and 1103)	3
BIOL 1104	Biology Skills Laboratory II (BIOL 1101 and BIOL 1103 concurrent BIOL 1102 requirement)	1
GECF 1010	Introduction to the Christian Faith	3
GEEN 1102 GEEN 1202 GEEN 2312	English II (One of them according to the results of the College Board)	3
GESP 1102	Literature and Communication: Essay and Theatre	3
MATH 1500	Pre-calculus (GEMA 1200 requirement)	3
MATH 1511	Pre-calculus I (Select one of two courses, GEMA 1200 requirement)	5
<b>TOTAL</b>		<b>16-18</b>

**SECOND YEAR – FIRST SEMESTER**

<b>CODE</b>	<b>COURSE</b>	<b>CRS.</b>
BIOL 2103	Zoology (BIOL 1102 and BIOL 1104 requirement)	3
CHEM 1111	General Chemistry I (GEMA 1200 requirement)	4
GEEN 1103 GEEN 1203 GEEN 2313	English III (One of them according to the results of the College Board)	3
GESP 2203	Literature and World View	3
MATH 1512	Pre-Calculus II (If you took the MATH 1500 course, you do not take this course, MATH 1511 requirement)	3
<b>TOTAL</b>		<b>16</b>

**SECOND YEAR – SECOND SEMESTER**

<b>CODE</b>	<b>COURSE</b>	<b>CRS.</b>
BIOL 2104	Botany (BIOL requirement 1102 and 1104)	3
BIOL 2153	Biostatistics (MATH 1500 or MATH 1512 and BIOL 1102 requirement)	3
CHEM 2212	General Chemistry II (requirement MATH 1500 or MATH 1511 and CHEM 1111)	4
GEEC 2000	Entrepreneurial Culture	3
GEPE 3010 GEPE 3020 GEPE 3030	Art Appreciation Music Appreciation Theatre Appreciation (Select one of three courses)	3
<b>TOTAL</b>		<b>16</b>

**THIRD YEAR – FIRST SEMESTER**

<b>CODE</b>	<b>COURSE</b>	<b>CRS.</b>
BIOL 3010	Genetics (BIOL 1102 and GEMA 1200 requirement)	3
BIOL 3105	General Microbiology (BIOL 1102, BIOL 1104 and CHEM 1111 requirement)	4
CHEM 2221	Organic Chemistry I (requirement CHEM 2212)	4
ELECTIVE COURSE	Elective Course (Choose a course)	3
<b>TOTAL</b>		<b>14</b>

**THIRD YEAR – SECOND SEMESTER**

<b>CODE</b>	<b>COURSE</b>	<b>CRS.</b>
BIOL 3106	Human Anatomy and Physiology	4
BIOL 3503	Ecology	3
CHEM 2222	Organic Chemistry II	4
Prescribed distributive	Select a course from the prescribed Biology	3
GEHS 2010	Historical Process of Contemporary Puerto Rico	3
<b>TOTAL</b>		<b>17</b>

FOURTH YEAR – FIRST SEMESTER

CODE	COURSE	CRS.
BIOL 4604	Cellular and Molecular Biology (BIOL 3010 and CHEM 2221 requirement)	3
BIOL 4605	Cellular and Molecular Biology Skills Laboratory (BIOL 2153, BIOL 3105 and CHEM 2221 requirement, concurrent with BIOL 4604)	2
Prescribed distributive	Select a course from the prescribed Biology	3
GEHS 3020	Global Society	3
GEHS 3050	Human Formation, Society and Culture	
GEHS 4020	Ancient and Medieval Western Civilization	
GEHS 4030	Modern and Contemporary Western Civilization (Select one of four courses)	
PHYS 3001	General Physics I (MATH 1500 or MATH 1512 requirement)	4
<b>TOTAL</b>		<b>15</b>

FOURTH YEAR – SECOND SEMESTER

CODE	COURSE	CRS.
Prescribed distributive	Select a course from the prescribed Biology	3
Prescribed distributive	Select a course from the prescribed Biology	3
GEPE 4040	Ethics and Social Responsibility	3
PHYS 3002	General Physics II (PHYS 3001 requirement)	4
<b>TOTAL</b>		<b>13</b>

REQUIREMENTS FOR THE BACHELOR

DEGREE REQUIREMENTS	CREDITS
General Education Requirements	42
Concentration requirements	36
Related requirements	29-30
Prescribed distributive requirements	12
Elective courses	3
<b>TOTAL</b>	<b>122-123</b>

NOTES:

In the English curriculum, the student will take one of the following sequences according to PAA score:

Level 1 – Elementary: PAA score up to 440

Level 2 – Intermediate: PAA score up to 441-580

Level 3 – Advanced: PAA score 581 or higher

You will need to obtain a minimum grade of C in the Biology (BIOL) courses that are part of the Concentration Requirements and Prescribed Distributive Requirements

**PRESCRIBED DISTRIBUTIVES**

<b>COURSE NAME</b>	<b>CREDITS</b>
BIOL 2800 Introduction to Astrobiology	3
BIOL 3100 Fundamentals of Animal Science	3
BIOL 3200 Fundamentals of Animal Nutrition	3
BIOL 3213 Parasitology	3
BIOL 3214 Entomology	3
BIOL 3216 Animal Behavior	3
BIOL 3219 Invertebrate Biology	3
BIOL 3309 Food Microbiology	3
BIOL 3405 Immunology	3
BIOL 3504 Environmental Health	3
BIOL 3505 Environmental Laws, Policy and Regulation	3
BIOL 3601 Comparative Anatomy and Physiology I	3
BIOL 3602 Comparative Anatomy and Physiology II	3
BIOL 3904 Toxicology	3
BIOL 4105 Fundamentals of Geographic Information Systems	3
BIOL 4109 General Physiology	3
BIOL 4303 Mycology	3
BIOL 4304 Medical Mycology	3
BIOL 4305 Medical Microbiology	3
BIOL 4306 Virology	3
BIOL 4307 Microtechnique	2
BIOL 4403 Evolution	3
BIOL 4405 Embryology	3
BIOL 4407 Human Anatomy	3
BIOL 4433 Industrial Microbiology	3
BIOL 4494 Pharmacology	3
BIOL 4503 Conservation and Management of Natural Resources	3
BIOL 4600 Histology	3
BIOL 4905 Pathology	3
BIOL 4909 Public Health	3
BIOL 4912 Internship in Biology	3
BIOL 4953 Research Methods	3
BIOL 4955 Integrative Seminar	3
BIOL 4960 Bioethics	3
CHEM 3320 Analytical Chemistry	4
CHEM 4220 Biochemistry	4
MASC 3600 Marine Biology	3
MASC 3603 Marine Biology Laboratory	1
MASC 3620 Ichthyology	3
MASC 4030 Coral Reef Ecology	3
MASC 4040 Biology of Mammals, Birds and Turtles	3
MATH 2251 Calculus I	5