



Interamerican University of Puerto Rico
Aguadilla Campus
Department of Science Technology

Sequential Bachelor of Science in Biology

Effective Date: 2018

FIRST YEAR – FIRST SEMESTER

CODE	COURSE	CRS.
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
TOTAL		16

FIRST YEAR – SECOND SEMESTER

CODE	COURSE	CRS.
BIOL 1102	General Biology II (requirement BIOL 1101 and 1103)	3
BIOL 1104	Biology Skills Laboratory II (requirement BIOL 1101 and BIOL 1103, concurrent BIOL 1102)	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 MATH 1511	Pre-calculus Pre-calculus I (Select one of the two courses, requirement GEMA 1200)	5 3
TOTAL		16-18

SECOND YEAR – FIRST SEMESTER

CODE	COURSE	CRS.
BIOL 2103	Zoology (requirement BIOL 1102 and BIOL 1104)	3
CHEM 1111	General Chemistry I (requirement GEMA 1200)	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 Vision	3
MATH 1512	Pre-calculus II (requirement MATH 1511) (If MATH 1500 was taken, this course is not required)	3
TOTAL		13-16

SECOND YEAR – SECOND SEMESTER

CODE	COURSE	CRS.
BIOL 2104	Botany (requirement BIOL 1102 and 1104)	3
BIOL 2153	Biostatistics (requirement MATH 1500 or MATH 1512 and BIOL 1102)	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 the three courses)	3
TOTAL		16

THIRD YEAR – FIRST SEMESTER

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

THIRD YEAR – SECOND SEMESTER

CODE	COURSE	CRS.
BIOL 3106	Human Anatomy and Physiology (requirement BIOL 1102 and BIOL 1104)	4
BIOL 3503	Ecology (requirement BIOL 2103 and BIOL 2104 or BIOL 2010)	3
CHEM 2222	Organic Chemistry II (requirement CHEM 2221)	4
PRESCRIBED DISTRIBUTIVE	Select one course from the prescribed Biology courses	3
GEHS 2010	Historical Process of Contemporary Puerto Rico	3
TOTAL		17

FOURTH YEAR – FIRST SEMESTER

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

FOURTH YEAR – SECOND SEMESTER

CODE	COURSE	CRS.
PRESCRIBED DISTRIBUTIVE	Select one course from the prescribed Biology courses	3
PRESCRIBED DISTRIBUTIVE	Select one course from the prescribed Biology courses	3
GEPE 4040	Ethics and Social Responsibility	3
PHYS 3002	General Physics II (requirement PHYS 3001)	4
TOTAL		13

REQUIREMENTS FOR THE BACHELOR'S DEGREE

DEGREE REQUIREMENTS	CREDITS
General education requirements	42
Concentration requirements	36
Related requirements	29-30
Prescribed distributive requirements	12
Elective courses	3
TOTAL	122-123

NOTES:

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

Level 1 – Elementary: PAA score up to 440

Level 2 – Intermediate: PAA score from 441–580

Level 3 – Advanced: PAA score of 581 or higher

Students must obtain a minimum grade of C in Biology (BIOL) courses that are part of the Concentration Requirements and the Prescribed Distributive Requirements.

PRESCRIBED DISTRIBUTIVE REQUIREMENTS

COURSE NAME	CREDITS
BIOL 2800 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 3220 Biochemistry	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 Biology Practicum	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