



Interamerican University of Puerto Rico
Aguadilla Campus
Department of Science Technology

Sequential Bachelor of Science in Biotechnology

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
CHEM 1111	General Chemistry I (requirement GEMA 1200)	4
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 (requirement GEMA 1200)	5
TOTAL		18

SECOND YEAR – FIRST SEMESTER

CODE	COURSE	CRS.
BIOL 2013	Biology Skills Laboratory II (requirement BIOL 1103 and CHEM 1111)	1
BIOL 3010	Genetics (requirement BIOL 1102 and GEMA 1200)	3
BIOL 3105	General Microbiology (requirement BIOL 1102, BIOL 1104 and CHEM 1111)	4
CHEM 2212	General Chemistry II (requirement MATH 1500 or 1511 and CHEM 1111)	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
TOTAL		18

SECOND YEAR – SECOND SEMESTER

CODE	COURSE	CRS.
BIOL 2153	Biostatistics (requirement MATH 1500 or MATH 1512 and BIOL 1102)	3
BIOT 3250	Molecular Biotechnology (requirement BIOL 3010 and BIOL 3105)	3
CHEM 2221	Organic Chemistry I (requirement CHEM 2212)	4
GEHS 2010	Historical Process of Contemporary Puerto Rico	3
PHYS 3001	General Physics I (requirement MATH 1500 or MATH 1512)	4
TOTAL		17

THIRD YEAR – FIRST SEMESTER

CODE	COURSE	CRS.
BIOL 3405	Immunology (requirement BIOL 3105)	3
BIOL 4604	Cell and Molecular Biology (requirement BIOL 3010 or BMSC 2010 and CHEM 2221)	3
CHEM 2222	Organic Chemistry II (requirement CHEM 2221)	4
GEHP 3000	Comprehensive Health and Quality of Life	3
GEPE 3010	Art Appreciation	3
GEPE 3020	Music Appreciation	
GEPE 3030	Theatre Appreciation (Select one of the three courses)	
TOTAL		16

THIRD YEAR – SECOND SEMESTER

CODE	COURSE	CRS.
BIOT 3750	Recombinant DNA Technology (requirement BIOL 3010 and BIOT 3250)	3
BIOT 4620	Tissue Culture and Technical Applications (requirement BIOL 4604)	3
CHEM 3320	Analytical Chemistry (requirement CHEM 2212 and MATH 1500 or MATH 1512)	4
GEEC 2000	Entrepreneurial Culture	3
PHYS 3002	General Physics II (requirement PHYS 3001)	4
TOTAL		17

FOURTH YEAR – FIRST SEMESTER

CODE	COURSE	CRS.
BIOL 4433	Industrial Microbiology (requirement BIOL 3105 and CHEM 2212)	3
BIOT 4954	Research Methods (requirement: 15 credits in natural sciences in biology, chemistry, or biotechnology and authorization from the Department Director)	3
CHEM 4220	Biochemistry (requirement CHEM 2222 and CHEM 3320)	4
GEHS 3020	Global Society	3
GEHS 3050	Human Development, Society and Culture	
GEHS 4020	Ancient and Medieval Western Civilization	
GEHS 4030	Modern and Contemporary Western Civilization (Select one of the four courses)	
TOTAL		13

FOURTH YEAR – SECOND SEMESTER

CODE	COURSE	CRS.
BIOT 4710	Agricultural and Environmental Biotechnology (requirement BIOT 3750 and BIOL 4433)	3
BIOT 4928	Protein Purification and Analysis (requirement BIOL 4604 and CHEM 4420)	3
FREE ELECTIVE	Elective course (Choose one course)	3
GECF 1010	Christian Faith	3
GEPE 4040	Ethics and Social Responsibility	3
TOTAL		15

REQUIREMENTS FOR THE BACHELOR'S DEGREE

DEGREE REQUIREMENTS	CREDITS
General Education Requirements	45
Concentration requirements	45
Related requirements	37
Elective courses	3
TOTAL	130

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 Biotechnology (BIOT) courses that are part of the Concentration Requirements.

Students must maintain a minimum concentration GPA of 2.50.