



Interamerican University of Puerto Rico
Aguadilla Campus
Department of Science Technology

Sequential Bachelor of Science in Microbiology

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
TOTAL		13

SECOND YEAR – FIRST SEMESTER

CODE	COURSE	CRS.
BIOL 3010	Genetics (requirement BIOL 1102 and GEMA 1200)	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 1500	Pre-calculus (requirement GEMA 1200)	5
TOTAL		18

SECOND YEAR – SECOND SEMESTER

CODE	COURSE	CRS.
BIOL 3105	General Microbiology (requirement BIOL 1102, BIOL 1104 and CHEM 1111)	4
GEEC 2000	Entrepreneurial Culture	3
PRESCRIBED DISTRIBUTIVE COURSE	(Select one course from the prescribed Microbiology courses)	3/4
CHEM 2212	General Chemistry II (requirement MATH 1500 or MATH 1511 and CHEM 1111)	4
TOTAL		14/15

THIRD YEAR – FIRST SEMESTER

CODE	COURSE	CRS.
CHEM 2221	Organic Chemistry I (requirement CHEM 2212)	4
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
GEPE 3010 GEPE 3020 GEPE 3030	Art Appreciation Music Appreciation Theatre Appreciation (Select one of the three courses)	3
MICR 3211	Microbial Physiology (requirement BIOL 3105)	3
PHYS 3001	General Physics I (requirement MATH 1500 or MATH 1512)	4
TOTAL		17

THIRD YEAR – SECOND SEMESTER

CODE	COURSE	CRS.
BIOL 3405	Immunology (requirement BIOL 3105)	3
CHEM 2222	Organic Chemistry II (requirement CHEM 2221)	4
GEHP 3000	Comprehensive Health and Quality of Life	3
MICR 4010	Microbial Ecology (requirement MICR 3211)	3
PHYS 3002	General Physics II (requirement PHYS 3001)	4
TOTAL		17

FOURTH YEAR – FIRST SEMESTER

CODE	COURSE	CRS.
BIOL 4305	Medical Microbiology (requirement BIOL 3105)	3
BIOL 4433	Industrial Microbiology (requirement BIOL 3105 and CHEM 2212)	3
PRESCRIBED DISTRIBUTIVE COURSE	(Select one course from the prescribed Microbiology courses)	3/4
GEHS 2010	Historical Process of Contemporary Puerto Rico	3
MICR 4505	Microbiological Application Techniques (requirement MICR 4010)	2
TOTAL		14/15

FOURTH YEAR – SECOND SEMESTER

CODE	COURSE	CRS.
BIOL 4303	Mycology (requirement BIOL 3105)	3
BIOL 4604	Cell and Molecular Biology (requirement BIOL 3010 and CHEM 2221)	3 4
CHEM 4220	Biochemistry (requirement CHEM 2222 and CHEM 3320) (Select one of the two courses)	
ELECTIVE COURSE	Elective course (Choose one course)	3
GEPE 4040	Ethics and Social Responsibility	3
MICR 4955	Integrative Seminar in Microbiology (Must have completed 30 concentration credits in the Bachelor's Program in Microbiology, including at least 6 credits in MICR)	1
TOTAL		13/14

REQUIREMENTS FOR THE BACHELOR'S DEGREE

DEGREE REQUIREMENTS	CREDITS
General Education Requirements	45
Concentration requirements	68 – 69
Prescribed distributive requirements	6 – 9
Elective courses	3
TOTAL	122-126

CHEM 4220: Students who take CHEM 4220 as a concentration requirement must take CHEM 3320 as a prescribed distributive course

PRESCRIBED DISTRIBUTIONS

COURSE NAME	CREDITS
BIOL 2153 Biostatistics	3
BIOL 3106 Human Anatomy and Physiology	4
BIOL 3213 Parasitology	3
BIOL 3309 Food Microbiology	3
BIOL 4306 Virology	3
CHEM 3320 Analytical Chemistry	4
MATH 2251 Calculus I	5
MICR 4910 Practicum	2