



Interamerican University of Puerto Rico
Aguadilla Campus
Department of Science Technology

Sequential Bachelor of Applied Science in Computer Science

Effective Date: 2018

FIRST YEAR – FIRST SEMESTER

CODE	COURSE	CRS.
COMP 2120	Programming Logic	3
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		15

FIRST YEAR – SECOND SEMESTER

CODE	COURSE	CRS.
COMP 2025	Web Page Development	3
COMP 2315	Structured Programming (requirement COMP 2120)	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-calculation (GEMA 1200 requirement)	5
TOTAL		17

SECOND YEAR – FIRST SEMESTER

CODE	COURSE	CRS.
COMP 2400	Object-Oriented Programming (requirement COMP 2315)	3
COMP 2501	Discrete Computational Structures I (MATH 1500 or MAEC 2140 requirement)	3
COMP 2800	Databases	3
GEEN 1103 GEEN 1203 GEEN 2313	English III (One of them according to the results of the College Board)	3
MATH 2251	Calculus I (MATH 1500 or MATH 1512 requirement)	5
TOTAL		17

SECOND YEAR – SECOND SEMESTER

CODE	COURSE	CRS.
COMP 2502	Discrete Computation Structures II	3
COMP 2900	Data Structure (COMP 2400 and 2501 requirement)	3
COMP 3015	WEB Programming with Databases (COMP 2800 requirement)	3
GEFC 1010	Introduction to the Christian Faith	3
GESP 2203	Literature and World view	3
TOTAL		15

THIRD YEAR – FIRST SEMESTER

CODE	COURSE	CRS.
COMP 3300	Computer Organization and Architecture (requirement COMP 2900)	3
COMP 3900	Visual Computing (COMP 3015 requirement)	3
GEPE 3010 GEPE 3020 GEPE 3030	Art Appreciation Music Appreciation Theatre Appreciation (Select one of three courses)	3
GEST 2020	The Natural Environment and the Human Being	3
PHYS 3001	General Physics I (MATH 1500 or MATH 1512 requirement)	4
TOTAL		16

THIRD YEAR – SECOND SEMESTER

CODE	COURSE	CRS.
COMP 3400	Software Engineer (requirement COMP 2800 and COMP 2900)	3
COMP 3500	Operating Systems (COMP 3300 requirement)	3
GEEC 2000	Entrepreneurial Culture	3
GEHS 2010	Historical Process of Contemporary Puerto Rico	3
TOTAL		12

FOURTH YEAR – FIRST SEMESTER

CODE	COURSE	CRS.
COMP 4200	Remote Processing and Networking (requirement COMP 2502 and COMP 3300)	3
COMP 4400	Systems Development and Implementation (requirement COMP 3400)	3
COMP 4410	Computer Security (requirement COMP 3300 or ADEV 2500)	3
GEHP 3000	Integral Health and Quality of Life	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)	
TOTAL		15

FOURTH YEAR – SECOND SEMESTER

CODE	COURSE	CRS.
COMP 4910	Practice and Professional Ethics	3
Prescribed distributive course	(Select a course from the prescribed Computer Science)	3
Prescribed distributive course	(Select a course from the prescribed Computer Science)	3
Elective course	Elective Course (Choose a course)	3
GEPE 4040	Ethics and social responsibility	3
TOTAL		15

REQUIREMENTS FOR THE BACHELOR

DEGREE REQUIREMENTS	CREDITS
General Education Requirements	48
Concentration requirements	65
Prescribed distributive requirements	6
Elective courses	3
TOTAL	122

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

PRESCRIBED DISTRIBUTIVES

COURSE CODE	COURSE NAME
COMP 2850 Mobile Computing	3
COMP 3600 Computer Graphics	3
COMP 3800 Programming Languages	3
COMP 397_ Special Topics	1-6
COMP 4160 Parallel Processing	3
COMP 4210 Cloud Computing	3
COMP 4415 Computer Forensics	3
COMP 4480 Artificial Intelligence	3
COMP 4580 Introduction to Robotics	3