



INTERAMERICAN UNIVERSITY OF PUERTO RICO
GUAYAMA CAMPUS
NATURAL SCIENCES AND TECHNOLOGY

- **BACHELOR OF SCIENCE DEGREE IN COMPUTER TECHNOLOGY AND NETWORKS (COTN)
(CODE B523)**

General Education Requirements	48 credits
Major Requirements	66 credits
Elective Courses	6 credits
Total	120 credits

Curricular Sequence

FIRST YEAR

First Semester				
Code	Title	Credit	Req.	Passed
COTN 1120	Design of Computer Programs	3		
GEMA 1200	Fundamentals of Algebra	3		
GEIC 1010	Information and Computing Technologies	3		
¹ GEEN 1101	English as a Second Language I: Oral Communication	3		
² GESP 1101	Literature and Communication: Narrative and Poetry	3		
	Total	15		

Second Semester				
Code	Title	Credit	Req.	Passed
COTN 1131	Electronics I	3	GEMA 1200	
COTN 1210	Computer Mathematics	3		
COTN 1230	Microcomputer Operating Systems	3		
COTN 1220	Data Communication	3		
GEEN 1102	English as a Second Language II: Reading	3		
GESP 1102	Literature and Communication: Essay and Theater	3		
	Total	18		

SECOND YEAR

First Semester				
Code	Title	Credit	Req.	Passed
COTN 2121	Network Administration I	3	COTN 1220	
COTN 2132	Electronics II	3	COTN 1210 COTN 1131	
COTN 2210	Diagnostics and Maintenance of Computerized Systems	3	COTN 1131 COTN 1230	
BADM 1550	Business Management and Organization	3		
BADM 1900	Fundamentals of Business Management	3 <small>(un curso)</small>		
GEFC 1010	Introduction to the Christian Faith	3		
	Total	15		

Second Semester				
Code	Title	Credit	Req.	Passed
COTN 2122	Network Administration II	3	COTN 2121	
COTN 2150	Implementation of Network Applications	3	COTN 2121	
COTN 2160	Network Installation and Configuration of Routers and Switches	3	COTN 1230 COTN 2121	
COTN 2220	Design and Implementation of Web Applications	3	COTN 1120	
COTN 2230	Network Diagnosis, Maintenance and Service	3	COTN 2121	
	Total	15		

(L) Courses with laboratory

THIRD YEAR

First Semester				
Code	Title	Credit	Req.	Passed
COTN 3310	Database Analysis and Design	3	COTN 1120	
GEEN 1103	English As a Second Language III: Writing	3		
GEEC 2000	Entrepreneurial Culture	3		
GESP 2203	Literature and World View	3		
GEHS 2010	Historical Process of Contemporary Puerto Rico	3		
	Total	15		

Second Semester				
Code	Title	Credit	Req.	Passed
COTN 3300	Architecture of Computerized Systems	3	COTN 2210	
COTN 3315	Analysis and Design of Computerized Systems	3	COTN 3310	
GEHP 3000	Integral Health and Quality of Life	3		
GEST 2020	The Natural Environment and the Human Being	3		
GEST 2030	Technology and Environment			
GEHS 3020	Global Society	3		
GEHS 3050	Human Formation, Society, and Culture			
GEHS 4030	Modern and Contemporary Western Civilization			
	Total	15		

FOURTH YEAR

First Semester				
Code	Title	Credit	Req.	Passed
COTN 4150	Network Security	3	COTN 2122 COTN 2160	
COTN 4300	Information Systems Management	3	COTN 3315 BADM 1900 BADM 1550	
COTN 3971	Emerging Topics in Network Technology	3	COTN 2122 COTN 2160	
	Elective Courses	3		
	Elective Courses	3		
	Total	15		

Second Semester				
Code	Title	Credit	Req.	Passed
COTN 4910	Practicum	3	50 Concentration credit or more	
COTN 4200	Cryptography	3	COTN 4150	
GEPE 3010	Art Appreciation	3		
GEPE 3020	Music Appreciation			
GEPE 3030	Theatre Appreciation			
GEPE 4040	Ethics and Social Responsibility	3		
	Total	12		

(L) Courses with Laboratory

¹Three (3) consecutive English courses are required. Students will be placed in courses based on their CEEB English exam score or equivalent.

²Three (3) consecutive Spanish courses are required. Those students whose vernacular is not Spanish will require GESP 1021, 1022 and 2023.

This sequential does not replace the catalog of the year of entry.