CYBERSECURITY, BS

Campus: NYC, Westchester

Major Completion Summary

Requirement	Credits
University Core Requirements	56
Major Requirements	52
Open Electives	12

University Core Requirements (56)

See complete University Core (https://catalog.pace.edu/undergraduate/university-core-curriculum/) requirements.

Major Requirements (52)

Code	Title	Credits
Computing Core		
CS 113	Mathematical Structures for Computer Science	4
CS 121	Introduction to Computer Science	4
CIT 221	Global Networking Technology	4
CIT 241	Database Management	4
CYB 231	Operating Systems Concepts	4
Cybersecurity Core		
CYB 201	Introduction to Cybersecurity	4
CYB 211	Information Security Management	4
CYB 241	Secure Software Development and Analysis	4
CYB 323	Network Security and Defense	4
CYB 325	Ethical Hacking and Penetration Testing	4
CYB 491	Cybersecurity Capstone Project	4
Advanced Major Electives		
CYB 301	Applied Cyber Defense and Operations	4
CIT 361	Digital Forensics Overview	4
or CIT 363	Computer Forensics, Cyber Law and Evidence Admissibility	
or CIT 365	Mobile Device Forensics	
CIT 348	Data Mining	4
CIT 380	Applied AI with Deep Learning	4
CS 312	Research Methods in Computers and Society	3

Open Electives (12)

	Cradite	17
Learning Community		6
CYB 201	Introduction to Cybersecurity	4
or MAT 131	or Calculus I	•
MAT 104	Finite Mathematics	3
UNV 101	First-Year Seminar. Introduction to University Community	1
ENG 110	Composition	3
Fall		
First Year		
Course	Title	Credits
Open Electives		
Code	Title	Credits

Spring		
ENG 120	Critical Writing	4
CYB 211	Information Security Management	4
MAT 117	Elementary Statistics	4
or MAT 234	or Introduction to Probability and Statistical Analysis	
Area of Knowledge Course		3
	Credits	15
Second Year		
Fall		
CS 121	Introduction to Computer Science	4
CIT 221	Global Networking Technology	4
CYB 231	Operating Systems Concepts	4
COM 200	Public Speaking	3
	Credits	15
Spring		
CIT 241	Database Management	4
CYB 323	Network Security and Defense	4
Lab Science		3
Civic Engagement		3
	Credits	14
Third Year		
Fall		
CYB 211	Information Security Management	4
ENG 201	Writing in the Disciplines	3
CYB 241	Secure Software Development and Analysis	4
CS 113	Mathematical Structures for Computer Science	4
Language 1		3
	Credits	18
Spring		
CYB 325	Ethical Hacking and Penetration Testing	4
Language 2	3	
Advanced Major Elective		4
(2) Area of Knowledge		6
***	Credits	14
Fourth Year		
Fall		
CYB 491	Cybersecurity Capstone Project	4
Area of Knowledge	, , , ,	3
Open Elective		3
Advanced Major Elective		4
	Credits	14
Spring		
Advanced Major Elective		4
(2) Area of Knowledge		6
General Elective		3
	Credits	13
	Total Credits	
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