CYBERSECURITY (BS)

Program Map

Course	Title	Credit Hours
First Year		
Fall		
ENGL 1101	English Composition I (minimum grade of C)	3
MATH 1113	Pre-Calculus (minimum grade of C)	4
Institutional Priorities	COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 [1]	3
CPSC 1301K	Computer Science I (minimum grade of C)	4
Arts, Humanities, and Ethics	Fine Arts [2]	3
	Credit Hours	**17**
Spring		
ENGL 1102	English Composition II (minimum grade of C)	3
MATH 2125	Introduction to Discrete Mathematics (minimum grade of C)	3
CPSC 1302K	Computer Science II (minimum grade of C)	4
Technology, Mathematics, and Sciences	Science Elective with Lab [1,3]	4
Institutional Priorities	ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) [1]	1
	Credit Hours	**15**
Second Year		
Fall		
CYBR 2159	Fundamentals of Computer Networks (minimum grade of C)	3
CPSC 2105	Computer Organization (minimum grade of C)	3
CPSC 2108	Data Structures (minimum grade of C)	3
Arts, Humanities, and Ethics	Humanities Elective [2]	3
Technology, Mathematics, and Sciences	Science Elective with Lab [1,3]	4
	Credit Hours	**16**
Spring		
CYBR 2160	Intro to Information Security (minimum grade of C)	3
CPSC 3131	Database Systems I (minimum grade of C)	3
STAT 1401	Elementary Statistics	3
HIST 2111 or HIST 2112	U. S. History to 1865 or U. S. History since 1865	3
CPSC 3125	Operating Systems (minimum grade of C)	3
KINS 1106 or PHED 1205	Lifetime Wellness or Concepts of Fitness	2
	Credit Hours	**17**

Course	Title	Credit Hours
Third Year		
Fall		
CYBR 3136	Wireless, IoT and Mobile Security (minimum grade of C)	3
CPSC 4157	Computer Networks (minimum grade of C)	3
CYBR 3106	Cybersecurity Risk Management (minimum grade of C)	3
POLS 1101	American Government	3
Social Sciences	Social Sciences Elective (Behavioral Science)	3
Health and Wellness	PEDS Elective	1
	Credit Hours	**16**
Spring		
CPSC 3165	Professionalism in Computing (minimum grade of C)	2
CYBR 3108	Defensive Programming (minimum grade of C)	3
Program Elective	CYBR or CPSC 3000 and above course (minimum grade of C)	3
CYBR 3119	Fundamentals of Digital Forensics (minimum grade of C)	3
Social Sciences	Social Science Elective (World Culture)	3
	Credit Hours	**14**
Fourth Year		
Fall		
CYBR 4160	Applied Cryptography (minimum grade of C)	3
CYBR 4127	Computer and Network Security (minimum grade of C)	3
CYBR 4128	Penetration Testing and Countermeasures (minimum grade of C)	3
Program Elective	CYBR or CPSC 3000 above course (minimum grade of C)	3
General Electives	General Electives	3
	Credit Hours	**15**
Spring		
CYBR 4416	Cybersecurity Practicum (minimum grade of C)	1
CPSC 4000	Baccalaureate Survey	0
CYBR 4166	Intrusion Detection and Prevention (minimum grade of C)	3
Program Electives	CYBR or CPSC 3000 and above course (minimum grade of C)	3
General Electives	General Electives	3
General Electives	General Electives	3
	Credit Hours	**13**
	Total Credit Hours	**123**

[1] The hours applied in the Institutional Priorities; Mathematics & Quantitative Skills; and Technology, Mathematics, and Sciences areas must add to 18 credit hours.

[2] ITDS 1145 Comparative Arts, though listed under both Fine Arts and Humanities, may be taken only once.

[3] At least 4 of the credit hours in this area must be in a lab science course.