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
Area B1	COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002	3
CPSC 1301K	Computer Science I (minimum grade of C)	4
Area C	Fine Arts	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
Area D	Science Elective with Lab	4
Area B2	ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2)	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
AREA C	Humanities Elective	3
AREA D	Science Elective with Lab	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**
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
AREA E	Social Sciences Elective (Behavioral Science)	3
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
AREA H	CYBR or CPSC 3000 and above course (minimum grade of C)	3
CYBR 3119	Fundamentals of Digital Forensics (minimum grade of C)	3
AREA E	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
AREA H	CYBR or CPSC 3000 above course (minimum grade of C)	3
Area I	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
AREA H	CYBR or CPSC 3000 and above course (minimum grade of C)	3
AREA I	General Electives	3
AREA I	General Electives	3
	Credit Hours	**13**
	Total Credit Hours	**123**