CYBERSECURITY (BS)

Program of Study

Code		Credit Hours
Core IMPACTS A	rea : Institutional Priorities ¹	4-5
Choose one of th	e following communication options	3
COMM 1110	Public Speaking	
Foreign Langu	age Course Options	
	CHIN, FREN, GERM, GREK, ITAL, JAPN, KREN, LATI 1001, 1002, 2001, 2002; SWAH - 1001, 1002.	N,
Take one of the fo	ollowing courses	1-2
ITDS 1779	Scholarship Across the Disciplines	
LEAD 1705	Introduction to Servant Leadership	
PERS 1506	Perspectives 1-hour	
PERS 1507	Perspectives 2-hour	
Core IMPACTS A	ea : Mathematics & Quantitative Skills ¹	3-7
DATA 1501	Introduction to Data Science	3
MATH 1001	Quantitative Skills and Reasoning	3
MATH 1101	Introduction to Mathematical Modeling	3
MATH 1111	College Algebra	3
MATH 1113	Pre-Calculus	4
MATH 1125	Applied Calculus	3
MATH 1131	Calculus with Analytic Geometry I	4
MATH 1132	Calculus with Analytic Geometry II	4
MATH 1165	Computer-Assisted Problem Solving	3
MATH 1401	Introduction to Statistics	3
MATH 1501	Calculus I	4
MATH 2125	Introduction to Discrete Mathematics	3
STAT 1401	Elementary Statistics	3
Core IMPACTS A	rea : Political Science and U.S. History	6
HIST 2111	U. S. History to 1865	3
or HIST 2112	U. S. History since 1865	
POLS 1101	American Government	3
Core IMPACTS A	rea : Arts, Humanities, and Ethics	6
Select one Fine A	arts course	3
ARTH 1100	Art Appreciation	
ARTH 2125	Introduction to the History of Art I- Prehistoric through Gothic	
ARTH 2126	Introduction to the History of Art II— Renaissance through Modern	9
MUSC 1100	Music Appreciation	
THEA 1100	Theatre Appreciation	
ITDS 1145	Comparative Arts ²	
Select one Huma	nities course	3
ENGL 2111	World Literature I	
ENGL 2112	World Literature II	
ITDS 1155	The Western Intellectual Tradition	
ITDS 1774	Introduction to Digital Humanities	
PHIL 2010	Introduction to Philosophy	
ITDS 1145	Comparative Arts ²	
Core IMPACTS A	ea : Communicating in Writing	6

ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
Core IMPACTS Are	ea : Technology, Mathematics, and Sciences ^{1,3}	7-11
ANTH 1145	Human Origins	3
ASTR 1105	Descriptive Astronomy: The Solar System	3
ASTR 1106	Descriptive Astronomy: Stars and Galaxies	3
ASTR 1305	Descriptive Astronomy Lab	1
ATSC 1112	Understanding the Weather	3
ATSC 1112L	Understanding the Weather Lab	1
BIOL 1125	Contemporary Issues in Biology Non-Lab	3
BIOL 1215K	Introductory Biology	4
BIOL 1225K	Contemporary Issues in Biology with Lab	4
CHEM 1151	Survey of Chemistry I	4
& 1151L	and Survey of Chemistry I Lab	
CHEM 1152	Survey of Chemistry II	4
& 1152L	and Survey of Chemistry II Lab	4
CHEM 1211 & 1211L	Principles of Chemistry I and Principles of Chemistry I Lab	4
CHEM 1212	Principles of Chemistry II	4
& 1212L	and Principles of Chemistry II Lab	4
CPSC 1105	Introduction to Computing Principles and	3
0.001.00	Technology	Ü
CPSC 1301K	Computer Science I	4
ENVS 1105	Environmental Studies	3
ENVS 1105L	Environmental Studies Laboratory	1
ENVS 1205K	Sustainability and the Environment	4
GEOG 2215	Introduction to the Geographic Information	3
	Systems	
GEOL 1110	Natural Disasters: Our Hazardous Environment	3
GEOL 1121	Introductory Geoscience I: Physical Geology	3
GEOL 1121L	Introductory Geoscience I: Physical Geology Lab	1
GEOL 1122	Introductory Geo-sciences II: Historical Geology	3
GEOL 1322	Introductory Geo-sciences II: Historical Geology Lab	1
GEOL 2225	The Fossil Record	4
PHYS 1111	Introductory Physics I	4
& PHYS 1311	and Introductory Physics I Lab	
PHYS 1112	Introductory Physics II	4
& PHYS 1312	and Introductory Physics II Lab	
PHYS 1125	Physics of Color and Sound	3
PHYS 1325	Physics of Color and Sound Lab	1
PHYS 2211 & PHYS 2311	Principles of Physics I and Principles of Physics I Lab	4
PHYS 2212	Principles of Physics II	4
& PHYS 2312	and Principles of Physics II Lab	
	ea : Social Sciences	6
Select one Behavi	oral Science course	
ECON 2105	Principles of Macroeconomics	
ECON 2106	Principles of Microeconomics	
PHIL 2030	Moral Philosophy	
PSYC 1101	Introduction to General Psychology	
SOCI 1101	Introduction to Sociology	
Select one World		3
ANTH 1107	Discovering Archaeology	

	ANTH 1105	Cultural Anthropology	
	ANTH 2105	Ancient World Civilizations	
	ANTH 2136	Language and Culture	
	ENGL 2136	Language and Culture	
	GEOG 1101	World Regional Geography	
	HIST 1111	World History to 1500	
	HIST 1112	World History since 1500	
	ITDS 1156	Understanding Non-Western Cultures	
С	ore IMPACTS To	-	42
_	ore IMPACTS To	tal Hours	42 3
Н		tal Hours	
Н	ealth and Wellne	tal Hours ess	3
H K	ealth and Wellne	tal Hours ess Lifetime Wellness Concepts of Fitness	3
H K	ealth and Wellno INS 1106 or PHED 1205	tal Hours ess Lifetime Wellness Concepts of Fitness following	3
H K	ealth and Wellne INS 1106 or PHED 1205 elect one of the	tal Hours ess Lifetime Wellness Concepts of Fitness following	3

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

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

Credit

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

Major Requirements

Title

Code

ooue	ŀ	lours			
Core Requirements					
Complete the co	re requirements for this program	45			
Core Total		45			
Field of Study Requirements					
A grade of "C" or	better is required in each course.				
CPSC 1301K	Computer Science I	4			
CPSC 1302K	Computer Science II (1 Credit Hour to Required for the Major)	r 4			
CPSC 2105	Computer Organization	3			
CYBR 2159	Fundamentals of Computer Networks	3			
CYBR 2160	Intro to Information Security	3			
MATH 2125	Introduction to Discrete Mathematics (1 Credit Hour to Required for the Major)	3			
Field of Study Re	equirements Total	18			
Required for the Major					
A grade of "C" or better is required in each CPSC and CYBR course.					
CPSC 2108	Data Structures	3			
CPSC 3125	Operating Systems	3			
CPSC 3165	Professionalism in Computing	2			
CPSC 4157	Computer Networks	3			
CPSC 4000	Baccalaureate Survey	0			
CYBR 3106	Cybersecurity Risk Management	3			
CYBR 3108	Defensive Programming	3			
CYBR 3119	Fundamentals of Digital Forensics	3			
CYBR 3136	Wireless, IoT and Mobile Security	3			
CYBR 4416	Cybersecurity Practicum	1			

1 Credit Hour fro	om Core IMPACTS: Mathematics	1
1 Credit Hour fro	om Field of Study Requirements CPSC 1302K	1
1 Credit Hour fro	om Field of Study Requirements MATH 2125	1
Required for the	Major Total	27
Major Electives		
A grade of "C" or course.	r better is required in each CPSC, CYBR and FTA	
The five courses	s below are required	
CPSC 3131	Database Systems I	3
CYBR 4127	Computer and Network Security	3
CYBR 4128	Penetration Testing and Countermeasures	3
CYBR 4160	Applied Cryptography	3
CYBR 4166	Intrusion Detection and Prevention	3
Select 9 credit hours from any CPSC/CYBR/FTA 3000 and above course		
Major Electives Total		24
General Elective	es	
Select 9 credit hours of general electives		
General Electives Total		
Total Credit Hours		