MANAGEMENT INFORMATION SYSTEMS (BBA) - CYBERSECURITY MANAGEMENT CONCENTRATION

Program Overview

The BBA in Management Information Systems – Cybersecurity Management Concentration provides students with career-ready skills and knowledge to help organizations defend and protect organizational assets against cyber threats. The Cybersecurity Management concentration is designed to build a specific knowledge domain for students who are interested in information security or infrastructure protection positions in government, non-profit, and private industry with a focus on topics including cybersecurity risk management, cybersecurity policies, and practices, digital forensics, information security assurance, and cybersecurity strategy.

Potential Careers include IT Auditor, Risk Analyst, Cybersecurity Analyst, and Cybersecurity Consultant.

Code	Title	Credit Hours
Core IMPACTS Area : Institutional Priorities [1]		**4-5**
Choose one of the following communication options		3
COMM 1110	Public Speaking	
Foreign Language Course Options		
AMSL, ARAB, CHIN, FREN, GERM, GREK, ITAL, JAPN, KREN, LATIN, PORT, SPAN - 1001, 1002, 2001, 2002; SWAH - 1001, 1002.		
Take one of the following 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 Area : 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 Area : 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 Area : Arts, Humanities, and Ethics		**6**
Select one Fine 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	
MUSC 1100	Music Appreciation	
THEA 1100	Theatre Appreciation	
ITDS 1145	Comparative Arts [2]	
Select one Humanities 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 Area : Communicating in Writing		**6**
ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
Core IMPACTS Area : 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 & 1151L	Survey of Chemistry I and Survey of Chemistry I Lab	4
CHEM 1152 & 1152L	Survey of Chemistry II and Survey of Chemistry II Lab	4
CHEM 1211 & 1211L	Principles of Chemistry I and Principles of Chemistry I Lab	4
CHEM 1212 & 1212L	Principles of Chemistry II and Principles of Chemistry II Lab	4
CPSC 1105	Introduction to Computing Principles and Technology	3
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 Systems	3
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 & PHYS 1311	Introductory Physics I and Introductory Physics I Lab	4
PHYS 1112 & PHYS 1312	Introductory Physics II and Introductory Physics II Lab	4
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 & PHYS 2312	Principles of Physics II and Principles of Physics II Lab	4
Core IMPACTS Area : Social Sciences		**6**
Select one Behavioral 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 Cultures course		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	
Core IMPACTS Total Hours		**42**
Health and Wellness		**3**
KINS 1106	Lifetime Wellness	2
or PHED 1205	Concepts of Fitness	
Select one of the following		1
Any PEDS course		
MUSC 1206	Body Mapping (Music Majors Only)	

[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.

Code	Title	Credit Hours
Core Requirements		
Complete the core requirements for this program		45
Core Total		45
Field of Study Requirements		
Minimum grade of C is required		
ACCT 2101	Principles of Accounting I (Core Requirements)	3
ACCT 2102	Principles of Accounting II	3
BUSA 2100	Introduction to Information Systems in Business	3
BUSA 2115	Introduction to Business	3
ECON 2105	Principles of Macroeconomics	3
ECON 2106	Principles of Microeconomics	3
Field of Study Requirements Total		18
BBA Program Requirements		
Minimum grade of C is required in your major's prerequisite course		
BUSA 3115	Business Analytics I	3
BUSA 3126	Business Law	3
BUSA 3135	International Business	3
BUSA 4000	Business Professional Exit Requirement	0
BUSA 4185	Strategic Management	3
FINC 3105	Principles of Finance	3
MGMT 3115	Principles of Management	3
MISM 3115	Principles of Information Systems Management	3
MISM 3116	Business Analytics II	3
or BUSA 3116	Managerial Decision Making	
MKTG 3115	Principles of Marketing	3
BBA Program Requirements Total		27
Major Requirements		
Minimum grade of C required		
CPSC 1301K	Computer Science I	4
CYBR 2159	Fundamentals of Computer Networks	3
CYBR 2160	Intro to Information Security	3
CYBR 3106	Cybersecurity Risk Management	3
MISM 3136	Database Design	3
MISM 4168	Systems Analysis & Design	3
MISM 4165	Project Management	3
Major Requirements Total		22
Major Electives		
Minimum grade of C is required in each of the following courses		
Select one of the following options		3
CYBR 3119	Fundamentals of Digital Forensics	
CYBR 3135	Infrastructure Security	
MISM 4899	Independent Study	
Select 6 credits of electives from ACCT/BUSA/ MISM/ECON/ ENTR/FINC/FTA/ MGMT/MKTG	Elective	6
Major Electives Total		9
General Electives		
Unrestricted Electives 1***/2***/3***/4***	Elective	2
General Electives Total		2
Total Credit Hours		**123**

Program Map

Course	Title	Credit Hours
First Year		
Fall		
ENGL 1101	English Composition I (minimum grade of C)	3
MATH 1111	College Algebra (minimum grade of C)	3
AREA D	Non-lab Science	3
HIST 2111 or HIST 2112	U. S. History to 1865 or U. S. History since 1865	3
BUSA 2115	Introduction to Business (minimum grade of C)	3
	Credit Hours	**15**
Spring		
ENGL 1102	English Composition II (minimum grade of C)	3
ECON 2105	Principles of Macroeconomics (minimum grade of C)	3
AREA D	Lab Science	4
AREA B2	ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2)	2
CPSC 1301K	Computer Science I	4
By the end of spring, students should have 30 or more hours and have completed Area A requirements.		
	Credit Hours	**16**
Second Year		
Fall		
AREA B1	COMM 1110 Public Speaking or Foreign Language 1001, 1002, 2001, 2002	3
AREA E	Behavioral Science	3
ACCT 2101	Principles of Accounting I (minimum grade of C)	3
ECON 2106	Principles of Microeconomics (minimum grade of C)	3
AREA C	Fine Arts Elective	3
PEDS Elective		1
	Credit Hours	**16**
Spring		
AREA C	Humanities Elective	3
AREA E	World Culture Elective	3
ACCT 2102	Principles of Accounting II (minimum grade of C)	3
BUSA 2100	Introduction to Information Systems in Business (minimum grade of C)	3
POLS 1101	American Government	3
KINS 1106 or PHED 1205	Lifetime Wellness or Concepts of Fitness	2
At the end of spring, 63 hours (Areas A-F plus Wellness) should be complete.		
	Credit Hours	**17**
Third Year		
Fall		
BUSA 3115	Business Analytics I (minimum 2.0 GPA)	3
BUSA 3135	International Business (minimum 2.0 GPA)	3
CYBR 2159	Fundamentals of Computer Networks (minimum grade of C)	3
MISM 3115	Principles of Information Systems Management (minimum grade of C) (minimum 2.0 GPA)	3
BUSA 3126	Business Law (minimum 2.0 GPA)	3
	Credit Hours	**15**
Spring		
BUSA 3116 or MISM 3116	Managerial Decision Making (minimum 2.0 GPA) or Business Analytics II	3
FINC 3105	Principles of Finance (minimum 2.0 GPA)	3
MGMT 3115	Principles of Management (minimum 2.0 GPA)	3
MISM 3136	Database Design (minimum grade of C)	3
CYBR 2160	Intro to Information Security	3
	Credit Hours	**15**
Fourth Year		
Fall		
MKTG 3115	Principles of Marketing (minimum 2.0 GPA)	3
MISM 4168	Systems Analysis & Design (minimum grade of C)	3
CYBR 3106	Cybersecurity Risk Management (minimum grade of C)	3
AREA I	Business Elective (minimum 2.0 GPA)	3
AREA I	Business Elective (minimum 2.0 GPA)	3
	Credit Hours	**15**
Spring		
BUSA 4185	Strategic Management (minimum grade of C) (minimum 2.0 GPA)	3
BUSA 4000	Business Professional Exit Requirement (minimum 2.0 GPA)	0
MISM 4165	Project Management (minimum grade of C)	3
AREA H	Elective (minimum grade of C)	3
AREA I	General Elective (minimum 2.0 GPA)	3
AREA I	General Elective (minimum 2.0 GPA)	2
	Credit Hours	**14**
	Total Credit Hours	**123**

Admission Requirements

There are no program specific admission requirements.

Additional Program Requirements

All students must earn C or better in Area F, C average in Area G, C or better in Area H and a C average in Area I business electives.