CYBERSECURITY (BS)

Program Overview

All graduates in the B.S. in Cybersecurity program offered by the Turner College of Business will learn the essential skills necessary to join the cybersecurity workforce.

Career Opportunities

Typical current cybersecurity positions include:

- · Cybersecurity Manager
- Cybersecurity Management Consultant
- · Cyber Security Analyst- Awareness and Education
- Cybersecurity Regulatory Governance Lead
- · Cyber Security Measures and Reporting Lead
- IT Cyber Security Controls Assessor

- · Information Security Governance Specialist
- · Cybersecurity Regulatory Compliance Instructor
- · Cybersecurity Policy and Compliance Analyst

Program of Study

Code	Title	Credit Hours	
Core IMPACTS A	rea : Institutional Priorities ¹	4-5	
COMM 1110	Public Speaking	3	
ITDS 1779	Scholarship Across the Disciplines	2	
LEAD 1705	Introduction to Servant Leadership	2	
PERS 1506	Perspectives 1-hour	1	
PERS 1507	Perspectives 2-hour	2	
Foreign Languag	e Course Options		
	REN, GERM, GREK, ITAL, JAPN, KREN, LATIN, PC 002, 2001, 2002)RT,	
SWAH 1001	Elementary Swahili I		
SWAH 1002	Elementary Swahili II		
Core IMPACTS A	rea : 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 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 Huma	anities course	3
ENGL 2111	World Literature I	
ENGL 2112	World Literature II	
ITDS 1774	Introduction to Digital Humanities	
PHIL 2010	Introduction to Philosophy	
ITDS 1145	Comparative Arts ²	
Core IMPACTS A	rea : Communicating in Writing	6
ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
Core IMPACTS A	rea : Technology, Mathematics, and Sciences ¹	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	Principles of Chemistry I	4
&1211L	and Principles of Chemistry I Lab	
CHEM 1212	Principles of Chemistry II	4
&1212L	and Principles of Chemistry II Lab	
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	Introductory Physics I	4
& PHYS 1311	and Introductory Physics I Lab	

PHYS 1112 & PHYS 1312	Introductory Physics II and Introductory Physics II Lab	4	MATH 2125	Introduction to Discrete Mathematics (1 Credit Hour to Area G)	3
PHYS 1125	Physics of Color and Sound	3	Field of Study B	Requirements Total	18
PHYS 1325	Physics of Color and Sound Lab	1	Required for the		10
PHYS 2211	Principles of Physics I	4		r better is required in each CPSC and CYBR course.	
& PHYS 2311	and Principles of Physics I Lab	-	CPSC 2108	Data Structures	3
PHYS 2212	Principles of Physics II	4	CPSC 3125	Operating Systems	3
& PHYS 2312	and Principles of Physics II Lab		CPSC 3165	Professionalism in Computing	2
Core IMPACTS A	rea : Social Sciences	6	CPSC 4157	Computer Networks	3
Select one Behav	ioral Science course		CPSC 4000	Baccalaureate Survey	0
ECON 2105	Principles of Macroeconomics		CYBR 3106	Cybersecurity Risk Management	3
ECON 2106	Principles of Microeconomics		CYBR 3108	Defensive Programming	3
PHIL 2030	Moral Philosophy		CYBR 3119	Fundamentals of Digital Forensics	3
PSYC 1101	Introduction to General Psychology		CYBR 3136	Wireless, IoT and Mobile Security	3
SOCI 1101	Introduction to Sociology		CYBR 4416	Cybersecurity Practicum	1
Select one World	Cultures course	3		om Math Area A	1
ANTH 1107	Discovering Archaeology			om Area F CPSC 1302K	1
ANTH 1105	Cultural Anthropology			om Area F MATH 2125	1
ANTH 2105	Ancient World Civilizations		Required for the		27
ANTH 2136	Language and Culture		Major Electives		
ENGL 2136	Language and Culture			r better is required in each CPSC, CYBR and FTA	
GEOG 1101	World Regional Geography		course.		
HIST 1111	World History to 1500		The five course	s below are required	
HIST 1112	World History since 1500		CPSC 3131	Database Systems I	3
ITDS 1155	The Western Intellectual Tradition		CYBR 4127	Computer and Network Security	3
ITDS 1156	Understanding Non-Western Cultures		CYBR 4128	Penetration Testing and Countermeasures	3
Core IMPACTS To	otal Hours	42	CYBR 4160	Applied Cryptography	3
Health and Welln	ess	3	CYBR 4166	Intrusion Detection and Prevention	3
KINS 1106	Lifetime Wellness	2	Select 9 credit h	nours from any CPSC/CYBR/FTA 3000 and above	9
or PHED 1205	Concepts of Fitness		course		
	course (https://catalog.columbusstate.edu/course-		Major Electives	Total	24
descriptions/ped	s/#peds)		General Elective	25	

 $^{1\,}$ 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.

Major Requirements

Code	Title	Credit Hours
Core Requireme	nts	
Complete the co	ore requirements for this program	45
Core Total		45
Field of Study R	equirements	
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 Area G)	4
CPSC 2105	Computer Organization	3
CYBR 2159	Fundamentals of Computer Networks	3
CYBR 2160	Intro to Information Security	3

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	

Select 9 credit hours of general electives

General Electives Total

Total Credit Hours

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 2108 Data Structures (minimum grade of C) 3 AREA C Humanities Elective 3 AREA D Science Elective with Lab 4 VERS 2160 Intro to Information Security (minimum grade of C) 3 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 INIST 2111 U. S. History to 1865 3 or HIST 2112 or U. S. History since 1865 2 OPERG 3125 Operating Systems (minimum grade of C) 3 INIST 106 Lifetime Wellness or On Concepts of Fitness 17 Third Year Fall 7 Fall 7 7 CYBR 3136 Wireless, IoT and Mobile Security (minimum grade of C) 3 CYBR 3106 Cybersecurity Risk Management (minimum grade of C)			
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Science) PEDS Elective 1 Credit Hours Spring CPSC 3165 Professionalism in Computing (minimum grade of C) CYBR 3108 Defensive Programming (minimum grade of C) CYBR 3108 Defensive Programming (minimum grade of C) AREA H CYBR or CPSC 3000 and above course (minimum grade of C) CYBR 3119 Fundamentals of Digital Forensics (minimum grade of C) AREA E Social Science Elective (World Culture)	POLS 1101	American Government	3
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(minimum grade of C) AREA E Social Science Elective (World Culture) 3	AREA H		3
	CYBR 3119	•	3
Credit Hours 14	AREA E	Social Science Elective (World Culture)	3
		Credit Hours	14

	Total Credit Hours	123
	Credit Hours	13
AREA I	General Electives	3
AREA I	General Electives	3
AREA H	CYBR or CPSC 3000 and above course (minimum grade of C)	3
CYBR 4166	Intrusion Detection and Prevention (minimum grade of C)	3
CPSC 4000	Baccalaureate Survey	0
CYBR 4416	Cybersecurity Practicum (minimum grade of C)	1
Spring	Credit Hours	15
Area I	General Electives	3
AREA H	CYBR or CPSC 3000 above course (minimum grade of C)	3
CYBR 4128	Penetration Testing and Countermeasures (minimum grade of C)	3
CYBR 4127	Computer and Network Security (minimum grade of C)	3
CYBR 4160	Applied Cryptography (minimum grade of C)	3
Fourth Year Fall		

Admission Requirements

There are no program specific admission requirements.

Additional Program Requirements