BS in Cybersecurity

Program Requirements

A minimum total of 120 credit hours is required for the BS in cybersecurity program. All courses with an AC, CS or APEN prefix require that prerequisites courses have to be completed with a grade of *C*- or better. In addition to meeting the requirements of the WSU General Education Program (http://catalog.wichita.edu/undergraduate/academic-information/general-education-program/) and the requirements of the College of Engineering, students in the BS in cybersecurity program must take the following courses:

Course	Title	Hours
General Education (34-35 credit hours)		
Select courses to meet General Education	requirements ¹	12
General Education courses that will also n	neet Program Requirements	
FYAP 102A	First-Year Seminar:	3
	Introduction to Technology	
DOVE	and Innovation ^{2, 3}	
PSY 111	General Psychology ³	3
PHIL 125	Introductory Logic	3
PHIL 354	Ethics and Computers ³	3
ECON 201	Principles of Macroeconomics ³	3
MATH 123	College Trigonometry ³	3
PHYS 213	General College Physics I	5
& 213L	and General Physics I Lab	
College/Program Requirements	~	
PSY 323	Social Psychology ³	3
PSY 405	Human Factors Psychology	3
Mathematical/Natural Sciences		
MATH 231	Discrete Math	3
STAT 370	Elementary Statistics	3
Major Courses		
AC 121	Cybersecurity Awareness	3
AC 201	Introductory Design Project ¹	1
AC 222	Applied Computing Fundamentals	3
AC 301	Junior Project	2
AC 321	Applied Networking	3
AC 322	Applied Programming and Scripting	3
AC 324	Applied Web Applications and Database Development	3
AC 326	Cyber Operations	4
AC 352	Competitive Ethical Hacking	3
AC 363	Human Threats to Cybersecurity	3
AC 401	Senior Project I	3
AC 402	Senior Project II	3
AC 461	Digital Forensics	3
AC 462	Cyber Physical Systems	4
AC 463	Cyber Risk Management	3
AC 464	Web Application Security	3
ENGR 220	Applied Analog and Digital Electronics	3
Technical Electives		
Select 23 credit hours. At least 9 out of the 23 credit hours must be from the College of Engineering. Up to 2 credit hours of co-op can be used as		
nondepartmental technical electives.		
COMM 205	Visual Technologies	

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COMM 206	Introduction to Multimedia

COMM 535	Communication Analysis and Criticism
ANTH 562	Introduction to GIS
BADM 162	Business Software: Excel
HLS 310	Emergency Management
HLS 320	Border Security
HLS 330	Legal Issues in Homeland Security
HLS 401	Cyber Security
HLS 403	Physical Security
HLS 405	Intelligence Process
HLS 420	Terrorism
HLS 435	Cybercrime
HLS 470	Special Topics
HLS 470A	Immigration Policy and Politics
HLS 470B	The History of U.S. Homeland Security
HLS 470C	Jihadist Terrorism
HLS 470D	Insider Threat: Identification, Mitigation, Deterrence and Prevention
HLS 312	Risk Assessment
PSY 322	Cognitive Psychology
PSY 324	Psychology of Personality
CS 211 & 211L	Introduction to Programming
00.211	and Prob Slv/Prog Lab
CS 311 & 311L	Object-Oriented Programming and Object-Oriented Programming Lab
CS 400 & 400L	Data Structures and Data Structures Lab I
CS 577	Special Topics in Computer Science
ECE 194 & 194L	Introduction to Digital Design and Introduction to Digital Design Lab
ENGR 302	Accessible Design
ENGR 501	The Engineer as Leader
ENGR 501H	The Engineer as Leader Honors
MART 104	Introduction to Game Design
MART 261	Game Technology and Coding I
MART 361	Game Technology and Coding II
MGMT 360	Principles of Management
MIS 600	Database Management Systems
MIS 605	Systems Analysis and Design
MIS 612	Fundamentals of Cloud Computing
MIS 696	Management of the IS Function
COMM 255	Introduction to Web Design and Analytics

Total Credit Hours 120

See the requirements of the WSU General Education program (http://catalog.wichita.edu/undergraduate/academic-information/ general-education-program/). MATH 131 is not accepted by the program. Required major courses may also count towards General

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Education requirements. Students will need to select additional electives to reach 120 credit hours required for graduation with assistance from an advisor.

- assistance from an advisor.

 All first-year college students must take FYAP 102A within their first two semesters. Non-freshmen students transferring into the program, who have not taken the First-Year Seminar course, will need to take ENGR 205 instead of AC 201.
- May count as a general education course.

Applied Learning

Students in the BS in cybersecurity are required to complete an applied learning or research experience to graduate from the program. The requirement can be met by completing the final three courses in the project design experience consisting of AC 301, AC 401 and AC 402.