BS Computer Science - Cybersecurity Track

Click on the course number to view course title and description.

Code	Title	Semester Hours
BS in Computer Science with Cybersecurity Track Degree Plan (120 hours)		
Core Requirements (42 hours)		
First Year Seminar		3
FYE 1301	First Year Seminar	
Freshmen Composition I		3
EN 1311	Rhetoric and Composition	
or EN 1313	Rhetoric and Composition for International Students	
Literature		3
Any EN 23XX literature course		
History		3
Any 1000, 2000, or 3000-level HS course		
Social Science		6
Select two from the following: BA 1310, CJ 1301, CPH 1301, EC 2301, EC 2303, ED 2330, HU 3300, HU 3303, PO 1311, PO 1313, PO 1314, PS 1301, PS 2310, PS 2353, PS 2355, PS 2363, PS 2337, SC 1311, SC 2321, SC 2371, 3 hrs. of Communication Studies (CM 1341, CM 2333, CM 2334) CM 1341 recommended for this major.		
Mathematics		
Satisfied by MT 2412 in the courses required for this minor.		
Natural or Physical Sciences		3
Select one: BL 1301, BL 1302, BL 3311, CH 1303, CH 1401, CH 1402, ES 1300, ES 1301, ES 1302, ES 1303, ES 1304, ES 1305, ES 1373, PY 1300, PY 1310, PY 1401, PY 1402		
Fine Arts		3
Select any 3 hrs. of the following: Art (AR), Drama (DM), Music (MU) or MU 1300		
Foreign Language and International Engagement		6
This requirement is satisfied through one of four ways: (1) One 3-hour course in any language at the 3000 level or above, with a grade of B or better; (2) Two courses (1311 and 1312) in a language not previously studied; (3) Two courses (2311 and 2312) in a language previously studied at the high school or college level; (4) Qualifying scores on an AP or CLEP exam, or both the ACTFL OPI and WPT exams		
Philosophy - Self		3
PL 1301	Intro to Philosophy	
Philosophy - Ethics		3
PL 2301	Foundations of Ethics	
Theology - God		3
TH 1301	Introduction to Theology	
Intermediate Theology		3
Any TH 33xx course		
Computer Science Major Courses (42 hours)		
CS 1310	Programming I in C	3
CS 1311	Data Structures	3
CS 2110	Sophomore CS Seminar	1
CS 2313	Object Oriented Programming I	3
CS 2315	Algorithms	3
CS 2323	Object Oriented Programming II	3
CS 2350	Computer Architecture	3
CS 3110	Junior CS Seminar	1
CS 3310	Intro to Systems Analysis and Design	3
CS 3320	Files and Database	3
CS 3330	Computer Networks	3
CS 3335	Survey of Programming Languages	3

CS 3340	Software Engineering	3
CS 3350	Operating Systems	3
CS 4110	Senior CS Seminar	1
CS 4395	Senior Project	3
Mathematics Minor (17 hours)		
MT 2412	Calculus I	4
MT 2318	Applied Linear Algebra	3
MT 2323	Discrete Math Structures	3
MT 2413	Calculus II	4
MT 4331	Probability Theory	3
Cybersecurity Track (12 hours)		
CS 4362	Comp Security & Privacy	3
Cybersecurity Electives (3 courses)		
Cybersecurity Electives include CS4361 Computer Network Security / CS4363 Cloud Computing Security / CS6364 Digital Forensics and Cyber Crime / CS4365 Preparation for Security Certification / CS4367 Cybersecurity Risk Management / CS4368 Cybersecurity Policy and Law / CS 4369 Cryptography Principles and Practice / CS4314 Software Security		9
Electives (7 hours)		**7**
An elective can be any course taken from any discipline. Students can use these hours to pursue certificates, minors, or second majors.		
Total Semester Hours		**120**

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First Year

Fall	Semester Hours	Spring	Semester Hours
Elective	3	Literature	3
FYE 1301	3	CM 1341	3
EN 1311	3	CS 1311	3
MT 2412	4	MT 2413	4
CS 1310	3	Fine Arts	3
	16		**16**

Second Year

Fall	Semester Hours	Spring	Semester Hours
CS 2315	3	CS 2323	3
PL 1301	3	PL 2301	3
Foreign Language	3	CS 2350	3
CS 2313	3	Foreign Language	3
MT 2323	3	MT 2318	3
CS 2110	1		
	16		**15**

Third Year

Fall	Semester Hours	Spring	Semester Hours
History	3	Advanced Theology	3
TH 1301	3	CS 3330	3
Cybersecurity Elective or CS 4362	3	CS 3340	3
CS 3310	3	CS 4362	3
CS 3320	3	MT 4331	3
CS 3110	1		
	16		**15**

Fourth Year

Fall	Semester Hours	Spring	Semester Hours
Natural / Physical Science	3	Social Science	3
Cybersecurtiy Elective	3	CS 4395	3
CS 3350	3	CyberSecurity Elective	3
CS 4110	1	Elective	3
CS 3335	3	Elective	1
	13		**13**

Total Semester Hours 120