

Requirements for the B.S. Degree in Cybersecurity

Department of Computer Science, University of Central Arkansas 3/19/21 revised

CSEC Required Courses (54 hours)

Number	Title	Prerequisites
CSCI 1470	Computer Science I	MATH 1390
CSCI 1480	Computer Science II	CSCI 1470
CSEC 2300	Intro. Cybersecurity	CSCI 1470
CSCI 2320	Data Structures	CSCI 1480
CSCI 2335	Networking	CSCI 1480
CSEC 3300	Number Theory & Cryptography	CSEC 2300, CSCI 2330
PSCI 3316	Cyber. Law & Policy [C]	PSCI 1330, 2300
CSEC 3320	Computer Forensics	CSEC 2300
CSCI 3330	Algorithms	CSCI 2320, 2330
CSCI 3360	Database Systems [C]	CSCI 2320
CSCI 4300	Operating Systems	Junior/senior status, CSCI 3330
CSCI 4305	Linux/UNIX Systems	CSCI 2320
CSCI 4315	Info. Security [R]	CSCI 2320
CSCI 4321	Ethical Impl. [D, R]	Junior/senior status, CSCI 2320
MIS 4355	Project Mgmt. [Z]	CSEC 3320
MIS 4361	Cyber. Gov. & Policy	CSEC 2300
CSEC 4490	Cyber. Capstone [Z]*	CSCI 4315, 4321

Math Required Courses (10 hours)

Number	Title	Prerequisites
MATH 1491 or MATH 1496	Applied Calculus or Calculus I	MATH 1390 (MATH 1390, 1392)/MATH 1486
MATH 2311 or QMTH 2330 or PSCI 2312	Elementary Statistics or Business Statistics or Statistical Methods	MATH 1360/1390 MATH 1390
CSCI 2330	Discrete Math.	CSCI 1480

Concentration** Courses (12 hours)

Number	Title	Prerequisites
Cybersecurity Strategic Policy		
PSCI 3369	Cyber Citizenship	PSCI 1330, 2315
PSCI 4301	Civil Liberties [I]	PSCI 1330
PSCI 4340	Seminar: Int. Terrorism	
PSCI 4388	American Foreign Policy	PSCI 1330, 2300
Management of Cybersecurity		
MIS 3321	Managing Syst. & Tech.	
MIS 3382	Internship***	Junior/senior status
MIS 4360	Principles Info. Security	
MIS 4380	Bus. Intel. & Data Vis.	MATH 3311
Cyberphysical Security		
CSCI 3V75	Internship***	Junior/senior status
CSEC 4320	Ethical Hacking	CSEC 2300, CSCI 2335, 3330, 4321
CSEC 4335	Network Security	CSCI 4315
CSEC 4345	Cyber-Physical Security	CSCI 2335, 4315

* Corequisite: MIS 4355

** Choose one concentration

*** Or upper-division course approved by chair

Notes:

- Prerequisite columns: "A,B" means "A and B"; "A/B" means "A or B".
- UCA Upper-Division Core: Communication [C], Critical Inquiry [I], Diversity [D], Responsible Living [R], Capstone [Z]

For additional information, consult your academic advisor or visit <https://bit.ly/2QfEkz1>