

Cybersecurity Electives

This document lists the courses that can be used to meet the Cybersecurity Approved Electives requirements for the BSCyS program for the 2025-26 academic year. Note that older catalogs may have different course numbers, different options, and/or different requirements. This list is provided as a guide; the Undergraduate Catalog remains as the definitive source of requirements. *Note that not all of the courses listed below will be offered in any given academic year. Also note that with ongoing faculty hiring we expect to have some new electives not yet listed here.*

Notes:

- 1) These courses are open to BSCS, BSCpE, and BSAI students as General Electives.
- 2) See USF Course Inventory for course descriptions and a complete listing of prerequisites.
- 3) Courses from other colleges may have limited seats with priority going to their majors from the other college. Please consult with an advisor if you are interested in one of these courses.
- 4) COP 4931 is the designation for a special topic course. Unless otherwise stated, the pre-requisite for COP 4931 is COP 4538 Data Structures and Algorithms.
- 5) Students may earn up to 9 credit hours of COP 4900 Independent Study and/or CIS 4947 Industry Internship credit, no more than 3 credit hours in any one given company for CIS 4947 credit. Internships for CIS 4947 must be in the area of cybersecurity.

College of AI, Cybersecurity, and Computing		Prereq
CAP 4136	Malware and Reverse Engineering Analysis	COP 3515
CEN 4056	Hands-on DevOps	Senior Standing
CIS 4083	Cloud Computing for IT	COP 3515
CIS 4778	Applied Data and Information Security	Senior Standing
CIS 4947	Industry Internship	Senior Standing
CNT 4716C	Network Programming	CNT 4104
COP 4368	Advanced Object-Oriented Programming for IT	COP 2513
COP 4900	Independent Study for IT	Senior Standing
COP 4931	Capture the Flag	Senior Standing
COP 4931	HCI Security	Senior Standing
COP 4931	Robotic Process Automation	Senior Standing
COP 4931	Secure Internet of Things	Senior Standing
COP 4931	Software System Development for Cybersecurity	Senior Standing
College of Arts and Sciences – School of Information		Prereq
CIS 3360	Principles of Information Security	None
CIS 3362	Cryptography and Information Security	MAD 2104
CIS 4361	Information Assurance and Security Management	COP 3515

CIS 4368	Database Security and Audits	COP 3515
LIS 4779	Health Information Security	None
College of BCS – Dept. of Criminology		Prereq
CJE 3689	Cybercrime Investigation	COP 3515
CIS 4203	Cyber Forensics and Investigations	COP 3515
CIS 4365	Computer Security Policies and Disaster Prep	COP 3515
Muma College of Business – Info Systems Decision Sciences		Prereq
CIS 4203	Cyber Forensics and Investigation	COP 3515
CIS 4368	Database Security and Audits	COP 3515
ISM 4041	Global Cyber Ethics	COP 3515
College of Education – Teaching and Learning		Prereq
EDG 3801	Cybersecurity and the Everyday Citizen	None

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