Information Technology Electives

This document lists the courses that can be used to meet the Approved IT Electives requirements for the BSIT 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 topics 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 information technology.

Set #1 – Electives with COP 2512 as the pre-req	
COP 3353	User-Level Introduction to Linux for IT
Set #2 – Electives with COP 2513 as the pre-req	
COP 4368	Advanced Object-Oriented Programming for IT
COP 4931	Robotic Process Automation
Set #3 – Electives with COP 3515 as the pre-req	
CAP 4136	Malware Analysis and Reverse Engineering
CEN 4056	Hands on DevOps
COP 4931	Capture the Flag
COP 4931	Secure Internet of Things
COP 4931	IT Software System Development
COP 4931	Advanced OOP in C++
Set #4 – Electives with CNT 4104/4104L as the pre-req	
CNT 4716C	Network Programming
Set #5 – Senior standing and permission of instructor as the pre-req	
CIS 4947	Industry Internship for IT
COP 4900	Independent Study for IT
Set #6 – Electives from other colleges	

CIS 3360	Principles of Information Security
CIS 3362	Cryptography and Information Security
CIS 4361	Information Assurance and Security Management for IT
CIS 4365	Computer Security Policies and Disaster Preparedness
EDG 3801	Cybersecurity and the Everyday Citizen
ISM 4041	Global Cyber Ethics
LIS 4380	Information and Social Media
LIS 4477	Clinical Decision Support
LIS 4776	Health Information Technology
LIS 4779	Health Information Security
LIS 4785	Introduction to Health Informatics
LIS 4800	Introduction to Data Science

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