

## Information Technology Electives

This document lists the courses that can be used to meet the Approved IT Electives requirements for the Information Technology program for the 2024-25 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 in fall 2024 and spring 2025 not yet listed here.*

### Notes:

- 1) These courses are not open to Computer Science or Computer Engineering students.
- 2) See USF Course Inventory for course descriptions and a complete listing of prerequisites.
- 3) Course from other colleges may have limited seats. Please consult with an advisor if you are interested in one of these courses.
- 4) COP 4931 is the designation for special topic course. Unless otherwise stated, the pre-requisite for COP 4931 is COP 4538 Data Structures and Algorithms for IT.
- 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.

<b>Set #1 – Electives with COP 2512 as the pre-req</b>	
COP 3353	User-Level Introduction to Linux for IT
<b>Set #2 – Electives with COP 2513 as the pre-req</b>	
COP 4368	Advanced Object-Oriented Programming for IT
COP 4931	Robotic Process Automation
<b>Set #3 – Electives with COP 3515 as the pre-req</b>	
CAP 4136	Malware Analysis and Reverse Engineering
COP 4931	Capture the Flag
COP 4931	Hands on DevOps
COP 4931	Secure Internet of Things
<b>Set #4 – Electives with CNT 4104/4104L as the pre-req</b>	
CNT 4716C	Network Programming
<b>Set #5 – Senior standing and permission of instructor as the pre-req</b>	
CIS 4947	Industry Internship for IT
COP 4900	Independent Study for IT
<b>Set #6 – Electives from other colleges (senior standing is preferred)</b>	
LIS 4380	Information and Social Media
LIS 4776	Health Information Technology

LIS 4779	Health Information Security
LIS 4477	Clinical Decision Support Systems

Updated: March 24, 2024