

## Information Technology Departmental Electives

This document lists some of the courses that can be used to meet the Approved IT Electives requirements for the Information Technology program. This page is current for academic year 2021-22. Note that older catalogs may have different course numbers, different options, and/or different requirements. Check with the Department Undergraduate Advisor concerning possible courses not listed. 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.*

### Notes:

- 1) These courses are not open to Computer Science or Computer Engineering students.
- 2) COP 4931 is the designation for special topic courses. Unless otherwise stated, the pre-requisite for COP 4931 is COP 4538 Data Structures and Algorithms for IT. The term “Department Elective” refers to any special topics course that is not already listed.
- 3) CIS 4200 Penetration Testing was previously CIS 4204 Ethical Hacking. A student may not take both CIS 4200 and CIS 4204 for credit towards the degree.
- 4) Students may earn up to 9 credit hours of COP 4900 and/or CIS 4947 credit, no more than 3 credit hours in any one given company for CIS 4947 credit.
- 5) Courses below marked with a “\*” are Cybersecurity core courses. IT students may take these core courses as an IT Approved Elective, provided that all necessary prerequisites are met.

<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>	
CIS 3363	IT Systems Security*
CIS 4622	Hands on Cybersecurity*
COP 4931	Robotic Process Automation
<b>Set #2 - Electives with COP 3515 as the pre-req</b>	
CAP 4136	Malware Analysis and Reverse Engineering
CIS 4200	Penetration Testing*
COP 4931	Secure Internet of Things
COP 4931	Capture the Flag
COP 4931	Hands on DevOps
<b>Set #3 - Electives with CNT 4104/4104L as the pre-req</b>	
COP 4931	Network Programming
CNT 4403	Network Security and Firewalls*
<b>Set #4 - Electives with COP 4538 as the pre-req</b>	
CIS 4219	Human Aspects of Cybersecurity*
COP 4931	Advances in Object Oriented 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

Updated: May 20, 2021