



CNIT 140: IT Security Practices

Spring 2018 - Sam Bowne



38347 501 Lec M 06:10-
09:00PM MUB 180

Purpose of Class

Training students for cybersecurity competitions, including CTF events and the Collegiate Cyberdefense Competition (CCDC). This training will prepare students for employment as security professionals, and if our team does well in the competitions, the competitors will gain recognition and respect which should lead to more and better job offers.

The primary focus of this class is hands-on defense of systems. Students will work in groups configuring servers, firewalls, routers, switches, and other systems to resist attacks.

Live Streaming

You can attend class remotely using a PC, Mac, Linux, iOS or Android:
<https://zoom.us/j/4108472927>



Textbook

There will be no textbook. We will use online tutorials and CTFs instead.

Catalog Description

This course explores techniques used by hackers to access protected data. Students will learn about cybercrime laws, penalties and organizations defending civil liberties of citizens. Students will learn about the various methodologies hackers use to gain access to confidential data such as stealthy network recon, passive traffic identification, etc. CSU

Advisory: CNIT 123 or equivalent familiarity with hacking techniques

Class Schedule (may be revised)

<u>Date</u>	<u>Topic</u>
Mon Jan 22	First Class: Cybercompetitions: CCDC, CPTC, & NCL Class Structure and Grading
Mon Jan 29	Practice 1
Mon Feb 5	Practice 2
Mon Feb 12	Practice 3
Mon Feb 19	<i>Holiday: No Class</i>
Mon Feb 26	Practice 4 NCL Registration Starts
Mon Mar 5	Practice 5
Mon Mar 12	Practice 6
Mon Mar 19	Practice 7
<i>Mon Mar 26</i>	<i>Holiday: No Class</i>
Mon Apr 2	Guest TBA
Mon Apr 9	Practice 8
Mon Apr 16	Practice 9
Mon Apr 23	Practice 10
Mon Apr 30	Practice 11
Mon May 7	Practice 12
Mon May 14	Last Class: Make-Up & Extra Credit
Mon May 21	Final Exam Day: Make-Up & Extra Credit

Practice Sites

picoCTF
General CTF Prep



Bandit
Linux command-line



Infosec Institute
General CTF Prep



Pwnable KR
Binary Exploitation



We Chall
Many Types of Challenges

