



CNIT 140: IT Security Practices



CODEPATH*

Fall 2017 - Sam Bowne

77301 Sat 10 am - 1:00 pm, SCIE 111



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 Zoom. A conference will start each Saturday at 10 am.

Join from PC, Mac, Linux, iOS or Android: <https://zoom.us/j/146868924>

Or iPhone one-tap (US Toll): +14157629988,,3878924534# or +16465687788,,3878924534#

Or Telephone:

Dial: +1 415 762 9988 (US Toll) or +1 646 568 7788 (US Toll)

Meeting ID: 146 868 924

International numbers available: <https://zoom.us/join?m=X3kC6XKI6DU50-PiRkQ4oGaFiEr5RI6>

The free version of Zoom is limited to 40 minutes per meeting. So to see the second part of the lecture live, you may have to join with this meeting ID: 387-892-4534 or this link:

<https://zoom.us/j/3878924534>

Classes will also be recorded and published on YouTube for later viewing.

Textbook

There will be no textbook. We will use online tutorials and presentations 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

Schedule (may be revised)

<u>Date</u>	<u>Report</u>	<u>Topic</u>
Sat 8-19		Introduction to Cybercompetitions and the CCDC Class Structure and Grading
Sat 8-26		Class meets: groups working on projects
Sat 9-2	<i>Holiday: No Class</i>	
Fri 9-8	<i>Last day to add</i>	
Sat 9-9	Progress Plan Due	Class meets: groups working on projects
Sat 9-10		REGISTER FOR WRCCDC Class meets: groups working on projects
Sat 9-16		Class meets: groups working on projects
Sat 9-23		Class meets: groups working on projects
Sat 9-30	<i>Class cancelled for CactusCon</i>	
Sat 10-7	Report 1 Due	Class meets: groups working on projects
Sat 10-14		Class meets: groups working on projects
Sat 10-21		Class meets: groups working on projects
Sat 10-28		Class meets: groups working on projects
Sat 11-4	Report 2 Due	Class meets: groups working on projects
Sat 11-11		Class meets: groups working on projects
Sat 11-18		Class meets: groups working on projects
Sat 11-25	<i>Holiday: No Class</i>	
Sat 12-1		Class meets: groups working on projects
Sat 12-8	Report 3 Due	Class meets: groups working on projects
Sat 12-15		Final Exam Day: Make-Up & Extra Credit