

CNIT 127: Exploit Development

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Catalog Description

Learn how to find vulnerabilities and exploit them to gain control of target systems, including Linux, Windows, Mac, and Cisco. This class covers how to write tools, not just how to use them; essential skills for advanced penetration testers and software security professionals.

Advisory: CS 110A or equivalent familiarity with programming

After successful completion of this course, students will be able to:

- Define and explain essential Windows features and their weaknesses
- Research, discover and exploit vulnerabilities in Mac OS X as part of ethical, authorized penetration tests
- Research, discover and exploit vulnerabilities in Cisco IOS as part of ethical, authorized penetration tests
- Evaluate and implement protection mechanisms

Textbook

"The Shellcoder's Handbook: Discovering and Exploiting Security Holes ", by Chris Anley, John Heasman, Felix Lindner, Gerardo Richarte; ASIN: B004P5O38Q

Grades

The number of points you accumulate during the semester determines your final grade. Points come from projects, quizzes, and the final exam. Details are on my web site: samsclass.info

Your final letter grade is determined from your total points as shown below:

| % | Grade |
|----------------|-------|
| 90% or more | A |
| 80% - 89.99% | B |
| 60% - 79.99% | C |
| 50% - 59.99% | D |
| 49.99% or less | F |

This course allows "Pass/No Pass" grading, if that option is requested before the deadline.

Ethics

Security professionals are held to high standards of ethics, like police officers. Lying, copying others' work and passing it off as your own, crude or abusive language, and performing cybercrimes will not be tolerated in this class. Offenders will be punished by losing points, or by immediate expulsion and a final grade of F, at the discretion of the instructor. \

Changes

I reserve the right to change any of these policies as necessary during the semester and will inform you of any changes.