

# CIT 263 - CYBERSECURITY PENETRATION TESTING

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## Course Description

In this course, students will learn and practice current security assessment techniques. This includes the ability to plan/scope an assessment, understand legal/compliance requirements, perform vulnerability scanning/penetrations tests and analyze/report on their findings. This course aligns with the CompTIA Pentest+ certification exam. Group 2 course.

## Credit Hours

3

## Contact Hours

4

## Lecture Hours

2

## Lab Hours

2

## Required Prerequisites

CIT 240, or instructor permission.

## Recommended Prerequisites or Skills Competencies

Passing of CompTIA Security+ certification exam

## General Education Outcomes supported by this course

Critical Thinking - Direct

## Course Learning Outcomes

### Knowledge:

- Summarize security penetration techniques used to compromise systems.
- Summarize the importance of planning for an engagement.
- Compare and contrast different attacks and exploits.
- Summarize different types of attacks.
- Summarize mitigation strategies for discovered vulnerabilities.
- Summarize reporting and communication techniques for disclosing results.

### Application:

- Develop a plan and scope for an engagement.
- Perform penetration tests using security tools.
- Analyze and report results of tests performed.

### Integration:

- Evaluate penetration tools based on best practices.
- Discuss the importance of performing penetration tests and vulnerability assessments.

### Human Dimension:

- Discuss how security assessments (or lack of) impact stakeholders.
- Collaborate work with others to complete a desired outcome.

### Caring - Civic Learning:

- Explore ethical dilemmas related to security.
- Discuss corporate responsibility as it pertains to security.

### Learning How to Learn:

- Seek out solutions to problems on their own.
- Research available resources on security.