Course Number	CS 409	Course Title	Ethical Hacking				
Semester Hours	3	Course Coordinator	Henry Hexmoor				
Catalog	This course will explore the various means that an intruder has available to gain						
Description	access to computer resources. We will investigate weaknesses by discussing the theoretical background, and whenever possible, actually performing the attack. We will then discuss methods to prevent/reduce the vulnerabilities. This course is targeted specifically for Certified Ethical Hacking (CEH) exam candidates, matching the CEH exam objectives with the effective and popular Cert Guide method of study.						
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Textbooks

Certified Ethical Hacker (CEH) Cert Guide Network Defense, Michael Gregg. Pearson IT Certification.

ISBN-10: 0789751275 • ISBN-13: 9780789751270

References

Course Learning Outcomes

- Analyze security vulnerabilities of a network and develop a set of solutions for specific networking scenarios.
- Identify security tools including, but not limited to intrusion detection and firewall software.
- Exhibit an understanding of the threats posed by viruses to networks through the development of appropriate protection plans.
- Find and utilize available online resources as they pertain to developing a secure system.
- Develop comprehensive plans for network security using a full range of available tools.
- Prepare students for Ethical Hacking Certification (CEH) exam.

Assessment of the Contribution to Student Outcomes										
Outcome >	1	2	3	4	5	6				
Assessed →	X	X	X	X	X	X				

Prerequisites by Topic

CS 202 or equivalent

12. Cryptographic attacks and defenses (8 lectures)

13. Physical security and social engineering (5 lectures)

Latest Revision: Summer 2020