

NET 3300 - Advanced LAN Security Management
Weber State University - Network Management Technology
Spring 2018

Instructor: Andrew Drake
Classroom: Davis Campus D02 311, Wednesday 5:30 - 8:10 pm
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Office Hours: Tues: Ogden 13:30 - 16:00 , Wed: Davis 15:00 - 17:30

Course Description:

This course provides an in depth look into the field of network security. Specific topics to be examined include networking protocols, threats, authentication models, cryptography, layer 2 security, application security, social engineering, access control lists, defense in depth, firewalls, risk management, and OS hardening.

Required Text:

CompTIA Security+ SY0-501 Cert Guide, (4th Edition)
Author: David L Prowse
ISBN-10: 0789758997

Introduction:

This class will help you learn what/who is trying to attack your network and what you can do about it. We will be using the learning outcomes for the CompTIA Security+ certification for a framework. I highly recommend you seek to obtain this certification. We will also use lab equipment to have hands-on experience observing attacks and defending against them.

Learning Outcomes:

- Students will demonstrate knowledge of vulnerabilities, protocols, attacks, and defenses through labs and quizzes.
- Students will demonstrate knowledge of current policy, compliance, and risk management through research and writing assignments.
- Students will demonstrate their ability to properly defend against common attacks by configuring and securing lab equipment.

Teaching Methods:

This class will use a combination of lecture, research, and labs for instruction. Quizzes administered through the Canvas online portal and in class will be used throughout the semester. Quizzes will be multiple choice, true/false, and short answer. Lab work will be completed individually and in groups. Instructions will be given through the Canvas online portal. A comprehensive final of roughly 70 questions will be given in class the final week.

Grade Scale:

95% - 100 % = A 90% - 94% = A-

87% - 89% = B+ 83% - 86% = B 80% - 82% = B-

77% - 79% = C+ 73% - 76% = C 70% - 72% = C-

67% - 69% = D+ 63% - 66% = D 60% - 62% = D-

Labs: 30% Quizzes: 40% Final: 10% Research and Writing: 20%

Late Work:

Most work will require meeting with the instructor to complete if missed. Please inform the instructor of any absences as soon as possible, e-mail is preferred. It is at the instructor's discretion to allow late work.

ADA:

Any student requiring accommodations or services due to a disability must contact Services for Students with Disabilities (SSD) in room 181 of the Student Services Center. SSD can also arrange to provide course materials (including the syllabus) in alternative formats if necessary.

Course Fees:

Course fees in the Network Management Technology major are designed to cover the costs of equipment maintenance and replacement, software, consumable materials and supplies, instructional resources, and certification.

Academic Honesty:

Any attempt to gain unfair advantage during exams, or submitting another person's work as your own, is considered cheating. You will fail this course if you are caught cheating. Further disciplinary action may be taken by the University. You can find more information about academic honesty in the Weber State Policies and Procedures Manual.

http://www.weber.edu/ppm/Policies/6-22_StudentCode.html

Campus Closure:

In the event of the campus being closed, please check the Canvas portal for course instruction.