CS 3805	Computer and Network Security Spring Semester 2015

Instructor	Drew Weidman Office: TE111B Phone: 801-626-7025 E-mail: dweidman@weber.edu Office Hours:
Classroom	Online
Days	Online
Texts	*Analyzing Computer Security: A Threat/Vulnerability/Countermeasure Approach*; Prentice Hall, Pfleeger and Pfleeger, ISBN 978-0-013-278946-2
Objective	This course is designed to provide students with a solid foundation in network security including a treatment of security issues related to computers and computer networking. The primary emphasis is on developing security policies, security auditing, security models and laws related to security.
Class	Class will consist of lectures, discussions, and exams out of our textbook. Questions and comments are encouraged. It is expected that students will read the material related to each week's coursework.
Discussions	There will be weekly discussions online. There will be topics posted initially by the professor to begin each week. Each student is expected to read the question and answer the topic. As well there will be articles posted related to current events in security. Students are expected to comment on topics related to the article. Think of these discussions as if it were discussing the topic in class. Students are expected to participate regularly throughout the week in the discussions. The students are also encouraged to find other articles that are related to this topic and post the link to the article. You will be graded on making significant comments as well as adding to the discussion by posting additional articles and commenting on articles that other students have posted. Your grade will be based on your participation level and value of the comments. Discussions for each week open Tuesday morning and close Monday at 11:59 PM. Discussions are worth 40% of the final grade
Exams	There will be two exams for the class. They will be administered in the campus testing center. Exams count for 60% of the final grade.
Accommodations for disabilities	Any student requiring accommodations or services due to a disability must contact Services for Students with Disabilities (SSD) in room 181 of the Student Service Center.
Grading	The final grade will be given based on points accumulated through exams and labs. Standard grading will apply: 93-100 A; 90-92 A-; 86-89 B+; 83-85 B; 80-82 B-; 76-79 C+; 73-75 C; 70-72 C-; 66-69 D+; 63-65 D; 60-62 D-; 59 or below E.
Allocated Time	You should anticipate spending two to three hours of study per week for

	each credit hour of a university course. Computer and programming classes typically require time in the upper range.
Policies	Exams can only be taken on the days given unless arrangements are made to take them ahead of time. I am easy to work with if something comes up and you let me know ahead of time. Notice after the fact is a little more challenging for me to deal with and is not fair to other students in the class.

Class Schedule and Course Outline

Week of	Topic
Jan 12 Week 1	Ch. 1: Computer Security Overview Ch. 2: Authentication
Jan 19 Week 2	Ch. 3: Countermeasures
Jan 26 Week 3	Ch. 4: Malicious Code
Feb 2 Week 4	Ch. 5: Illicit Data Access
Feb 9 Week 5	Ch. 6: Memory Errors
Feb 16 Week 6	Ch. 7: Data Loss
Feb 23 Week 7	Ch. 8: Operating System Attacks Exam 1
Mar 2 Week 8	Ch. 9: Firewalls Ch. 10: WiFi Security
Mar 9 Week 9	Spring Break
Mar 16 Week 10	Ch. 11: Data Encryption
Mar 23	Ch. 12: Man in the Middle Attacks
Mar 30 Week 11	Ch. 13: Data Integrity Ch. 14: Replay Attacks
Apr 6 Week 12	Ch. 15: Availability
Apr 13 Week 13	Ch. 16: Data Integrity Ch. 17: Access Control
Apr 20 Week 14	Ch. 18: Confidentiality
Apr 27 Week 15	Exam 2