Saddleback College
Business Science Division

Course Syllabus
CIMS 200 – Internet and Intranet Security

03/26/*18 through 5/20/18*

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Semester: Spring 2018
Ticket No: 15715

Recommended Preparation: CIMN 130

Course Description
Provides introduction for securing an Internet and an enterprise-wide Intranet utilizing a range of different technologies to protect an organization's information from attacks, maintain authentication, prevent eavesdropping, retain integrity of information, and select a firewall and firewall topology.

This course meets the requirements set forth in the accessibility checklist and universal design grid provided by Special Services. The Web pages, video presentations, textbooks and class materials used in this course are accessible to students with disabilities. If you have questions on how to make accommodations, please contact Mike Sauter, the Alternate Media Specialist.

Course Objectives
Upon completion of this course, student will be able to:
1. Discuss and define security risks to the Internet and an enterprise-wide Intranet.
2. Select a security strategy: access restriction, event logging, encryption
3. Review security tools and major points of vulnerability
4. Ensure authenticity and validation techniques
5. Prevent eavesdropping to protect privacy in chat rooms or forums
6. Create digital certificates and encrypted files and messages
7. Discuss firewall options and firewall topologies
8. Develop an Internet/Intranet security policy

Policies and Procedures
1. Pagers and cell phones must be either turned off or set to vibrate (one exception).
2. Administrative dates of importance will be discussed during the first class meeting.
3. Homework and assignments are due at the beginning of class on the date listed.
4. Homework and assignments may be turned in late for review but will receive 0 points.
5. Extra Credit assignments will be provided at the instructor's discretion.
6. Ask questions and have fun!

Course Materials:

REQUIRED: Computer Security Fundamentals 3nd edition
by Chuck Easttom
Pearson (2016)
ISBN: 978-0-7897-5746-3

Grading:

Weekly Assignments (8*12.5) .. 25%
Participation (50)..... 12.5%
Quiz (50)..... 12.5%
Final Exam (200)..... 50%

Total Points: 400

Letter Grade
Points >= 360 == A
Points >= 320 == B
Points >= 280 == C
Points >= 240 == D

Or

Points >= 280 == Credit

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Week	**Topic**	**Reading**	**Assignments**
1: 3/26/18	**Course Logistics and Introduction** **The Common Body of Knowledge**	Internet See LMS (learning management system AKA Blackboard)	Homework 1
	Security Education (Degrees, certificates, etc)		
2: 4/2/18	**Security Policies and Procedures**	Chapter 10	Homework 2
	Information Security Laws • OPPA • HIPAA • SOX • GLB • SB1386	Internet see LMS	

3: 4/09/18	**Introduction to Cyber Crime and Security** • Self Assessment • Common Attacks • Terminology • Network Security Paradigms • Online Resources	Chapter 1	Homework 3
	Incident Response	Internet see LMS	
4: 4/16/18	**Assessing and Securing a System**	Chapter 2 (background) Internet see LMS	Homework 4 Quiz
	Computer Security Hardware and Software • Firewalls • Anti-Spyware • Intrusion Detection • Others	Chapter 9	
**** Quiz due 4/22/18 Midnight. No Exceptions****			
5: 4/23/18	**Assessing A System** • Basic Reconnaissance • Scanning • Port Monitoring and Managing • In-Depth Searches	Chapter 11	Homework 5
	Encryption	Chapter 8	
6: 4/30/18	**Malware** • Viruses • Trojan Horses • Buffer Overflows • Spyware • Other Malware • Defense of	Chapter 5	Homework 6

	Denial of Service Attacks • DoS • DDoS • Defense of	Chapter 4	
7: 5/07/18	**Industrial Espionage** • What is it? • Information Assets • Occurrence • Defense of	Chapter 7	Homework 7
	Internet Fraud and Cyber Crime • Internet Fraud • Cyber Stalking • Defense of	Chapter 3	
8: 5/14/18	**Cyber Terrorism and Information Warfare** • Economic Attacks • Military operations • General Attacks • Information Warfare • Future Trends • Defense of	Chapter 12	Homework 8 Final Exam
	Cyber Detective • General Searches • Course Records and Criminal Checks	Chapter 13	
**** Final Exam due 05/18/18 Midnight. No Exceptions****			