

Cosumnes River College
CISS 300
Introduction to Information Systems Security
An Online Course
Spring 2010

Instructor: Buddy Spisak

Office Hours: Mon. 6:30-7:30 p.m. (Jan. 25 to May 17)

Office: BS-143

Voice Mail: (916) 568-3100 ext. 14162 or (800) 486-8156 ext. 14162

Email: spisakj@crc.losrios.edu The turnaround time for responding to most emails is about one to two days. Be sure to include your name and the course number in each email so I can identify who you are and what the email is about.

Course Web page: <https://d2l.losrios.edu/>

Instructor Web page: <http://crc.losrios.edu/spisakj/>

Microsoft Messenger: You can also add me to your contact list for Windows Messenger. You can use my email address to find me.

Prerequisites: None

Advisory: None

Lecture: Online

Accepted for Credit: CSU

Class Credits: 1 unit

Required Textbooks:

Title: Security Awareness: Applying Practical Security in Your World, 3ed.

Author: Mark Ciampa

Publishing Info: Thompson Course Technology, 2010

ISBN10: 1-435-45414-6

ISBN13: 978-1-435-45414-9

Optional Materials:

3-1/2" floppies or a flash drive to store your work for the class

Course Description:

This course provides an introduction to network-based and internet-based security applications and standards. Topics include cryptography, security protocols, network security applications, encryption, hash functions, digital signatures, viruses and key exchange.

Student Learning Outcomes and Course Objectives:

As a result of completing this course, you will be able to:

- Understand computer and network security issues, including the numerous types of attacks computers are vulnerable to, the types of attacker profiles, and the hardware and software defense solutions available.
- Understand concepts such as security goals, the importance of security, intruder profiles, and defense mechanisms.
- Protect individual personal computers in both the home and corporate environments. This includes protecting the single device from the threats of data theft, viruses and spyware, techniques of authentication and security patch management.

- Implement corporate security policy measures involving e-mail, internet access, passwords, Incident Response and Disaster Recovery.
- Ensure internet security and network security by focusing on the threats to WAN and LAN networks and learning methods of protecting each type of network.
- Unite all of the concepts into a picture of "Total Security." While each lesson stands alone in terms of the specific topic it presents, the concepts in each lesson overlap into the other lessons. It is difficult to discuss protecting an organizational network or even an individual computer without addressing threats from the internet.
- Apply the above concepts to each particular setting and know how and why they are adapted from one environment to another.

Methods of Measuring Student Learning Outcomes:

- You will demonstrate knowledge of network and internet security applications and standards through class discussions and achievement on quizzes and final examination.
- You will demonstrate competence in the coursework by completing projects and participating in discussions during the semester.

Student Obligations:

- **Attendance:** Since this course is online, only attendance at the Final on March 13, 2010 is necessary. It's up to you to go to the course materials in Desire2Learn (d2l) and do all of the required work.
- **Discussions:** I want everyone to take a pro-active approach to learning this material. This includes using the Discussions link to ask questions and also answer other students' questions. I will also post questions each week that you can answer to further your understanding of the material. I expect two postings each week unless otherwise noted.
- **Projects:** There will be six hand-on projects and six case projects credited for homework for the class. The projects will help reinforce what you are learning in each lesson. The due dates are located in the **SCHEDULE** portion of this handout. You will submit your results into the d2l discussions area in order to receive points for that assignment. On all projects you are expected to do your own work.
- **Quizzes:** After each lesson you will be required to take a short quiz, which will test you on the material covered. It is open book and open notes. You can take the quiz multiple times to improve your score, but be aware the questions will change each time and your last score will be the one counted as the grade.
- **Final Exam:** The Final Exam will be matching, short-answer and essay in format. You can use both your notes and your book. You must submit the answers for the Final at the college on Saturday, March 13, from 2:00 to 3:50 p.m. in the BS-153 classroom. You will have access to the final exam one week before the due date. You only come to the college to submit your answers on paper. It is necessary to show a picture ID for identity verification.
- **Late Work:** Unless noted, all assignments are due on Sunday by midnight each week. Late work will be accepted ONLY if you have contacted me prior to the due date either by email or voice mail. In general, late work is due the next week, and no late assignments may be turned in after one week from the original due date, regardless of the reason. For every day an assignment is late, you will lose 10% of its grade.
- **Due Dates:** Unless noted, all assignments will be submitted in d2l. If, for any reason, you cannot access d2l or are unable to submit the assignment on time, please email it to me instead so that you are not penalized for being late. Quizzes cannot be taken, nor can discussion items be completed after their due dates. If you miss a quiz and you want to make up points, you can take advantage of the extra credit assignments posted in d2l. Everyone is welcome to work on the extra credit assignments. Typically, they are five to ten points each, depending on the difficulty of the assignment.

- **Plagiarism Policy:** It is inappropriate, and a violation of academic policy, to copy information from any source (including, but not limited to, textbooks, magazine articles, newspaper articles and Internet articles) without giving proper credit to the author by using standard quotation procedures such as in-line quotes, footnotes, endnotes, etc. Quotes may not exceed 25% of the assignment's total length. You will receive no credit (0 points) for any assignment that copies any material from any other source without giving proper credit to the author(s). Repeat offenders of this policy are subject to academic discipline as outlined in the policies published by the college.
- **Cheating:** Students who cheat will receive a failing grade for the course. (See CRC 2009-10 College Catalog, p. 34, or the Student Behavior and Academic Integrity page of the college website (http://www.crc.losrios.edu/College_Catalog/General_Information/Student_Behavior_and_Academic_Integrity.htm).
- **CRC Honor Code:** Academic integrity requires honesty, fairness, respect and responsibility. (See the Cosumnes River College Honor Code posted on the college website ([http://www.crc.losrios.edu/documents/academic_integrity_committee/Cosumnes%20River%20College%20Honor%20Code%20\(display%20version\).pdf](http://www.crc.losrios.edu/documents/academic_integrity_committee/Cosumnes%20River%20College%20Honor%20Code%20(display%20version).pdf)).
- **Email:** Every student will be required to have an email account. If you do not have an email account, the college provides free email accounts for all current students. To activate your account, go to <https://imail.losrios.edu/> and follow the directions provided.
- **Email etiquette:** I will not tolerate rude and demeaning comments or emails to anyone in this class. Please keep your comments and emails topic-related. If I determine that a comment or email to anyone else in the class is rude or demeaning, I will warn you once. If your behavior continues to be unacceptable, I will refer you to the administration of the college for disciplinary action.
- **Personal belongings:** No food or drinks are allowed in the classroom. All cell phones, beepers, pagers, etc. should be turned off or set to vibrate.
- **Disabilities:** If you have a documented disability and wish to discuss academic accommodations, please contact me or contact the Office of Disabled Student Programs and Services at 691-7275 as soon as possible.
- **Campus Police:** You can call 691-7777 to request a safety escort.
- **Desire 2 Learn (d2l):** This class utilizes a product called "Desire 2 Learn." It is highly recommended that you check the website frequently for scheduling updates and homework assignments. Most of the homework assignments and quizzes will be done on d2l.
- **Online Course Responsibilities:** This course requires significant self-motivation. You must not get behind. Projects and weekly assignments can take up to 3 hours to finish. Please don't try to finish them in one day. Not all activities are created equal. Some may take a bit longer than others. You would normally spend 3 hours per week in class for this course, a total of 18 hours. Allow yourself at least 6 hours per week to complete the activities online, including the time spent writing for the postings to the discussions page. You should plan additional time to read the textbook and study for the quizzes. Some people believe that an online format provides a much easier way to study this subject than an on-campus framework because they love to read and avoid the parking problems. Others feel very intimidated at first. Be patient as you work your way through the activities.

Grading:

Course Topic	Points	Total	Approximate % the of Grade
Orientation Quiz (1)	10	10	2
Discussions (6)	10	60	12
Quizzes (6)	20	120	25
Case Projects (6)	15	90	19
Hands-on Projects (6)	15	90	19
Final Exam (1)	100	100	21

Point System: There are 470 total assigned points.

Grade Ranges: A= 423-470, B=376-422, C=329-375, D=282-328, F=0-281

Schedule: It is tentative and can change during the course of the term. All changes will be located under the "News" section in d2l for the course.

Week:	Lesson:	Online Lecture:	Proposed Schedule:	Assignment Due:	Due Date (By Midnight):
Weeks 1-2	One	Ch 1	Orientation and Introductions	Discussion #1	Sun., Jan. 31
			View the Online Orientation	Orientation Quiz	
			Read Ch 1: Introduction to Security		
			Do one Hands-on Project, and one Case Project from Chapter 1	Quiz #1	
				Hands-on Project #1 Case Project #1	
Weeks 3-4	Two	Ch 2	Read Ch 2: Desktop Security	Discussion #2	Sun., Feb. 14
			Do one Hands-on Project, and one Case Project from Chapter 2	Quiz #2	
				Hands-on Project #2	
				Case Project #2	
Week 5	Three	Ch 3	Read Ch 3: Internet Security	Discussion #3	Sun., Feb. 21
			Do one Hands-on Project, and one Case Project from Chapter 3	Quiz #3	
				Hands-on Project #3	
				Case Project #3	
Week 6	Four	Ch 4	Read Ch 4: Personal Security	Discussion #4	Sun., Feb. 28
			Do one Hands-on Project, and one Case Project from Chapter 4	Quiz #4	
				Hands-on Project #4	
				Case Project #4	
Week 7	Five	Ch5	Read Ch 5: Wireless Network Security	Discussion #5	Sun., Mar. 7
			Do one Hands-on Project, and one Case Project from Chapter 5	Quiz #5	
				Hands-on Project #5	
				Case Project #5	
Week 8	Six	Ch 6	Read Ch 6: Enterprise Security	Discussion #6	Sat., Mar. 13
			Do one Hands-on Project, and one Case Project from Chapter 6	Quiz #6	
				Hands-on Project #6	
				Case Project #6	
			Final Exam (identity verification required) Sat., Mar 13, 2-3:50 p.m. in BS-153		All work needs to be turned in.