Fundamentals of Information Security
ITSY 1400-81001
Professor Casandra Toler
Office Hours: TR 9:30-10:00 am, 1:00-2:00 pm, F 10:00-12:00 pm
Office Number: B226 Phone Number: 972-761-6757
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Class Meeting Times:
Lecture: D276 MTWR 10:10-10:50 AM
Lab: D276 MTWR 10:55-11:40 AM

What’s It All About?

The purpose of this class is to cover fundamental security practices valuable to all industries, basic information security goals of availability, integrity and confidentiality, vocabulary and terminology specific to the field of information security, and the identification of exposures and vulnerabilities and appropriate countermeasures.

Required Textbook

ISBN-13: 9781337750479, Publisher: Cengage Learning Link to text
(Make sure you purchase a book with the MindTap online resource as well.)

Grade Evaluation

Class Participation & Attendance: 10% (Final counts as 2 regular tests)
Quizzes: 25%
Assignments: 20%
Tests & Final: 45%

Important Dates

9/9/2019 is the last day to drop without a grade of W
11/14/2019 is the last day to drop with a grade of W

Tests, Quizzes and Assignments

Missing a Test: If you miss a test, you may take a make up during the last week of classes. However, only one test may be made up, so please make sure you are always here on test days.
Missing a Quiz: Missed quizzes cannot be made up, but the 2 lowest quiz grades will automatically be dropped by eCampus. Therefore, if you miss one or two quizzes, eCampus will not count them in your grade.
Late Homework or Lab Assignments: Assignments must be turned in on eCampus before the end of the scheduled due date to receive complete credit. A 10 point penalty will be subtracted for each day that an assignment is late. (Note: Which means that after 10 days, you will receive a 0 on the assignment.)

Attendance is Key!

To learn what you need in this class you need to be here! Therefore, too many absences will affect your Attendance/Participation grade as follows:
You may be absent from class 3 times, but every absence after that will cause your Attendance grade to lose 10 points.
(This includes lab attendance, and arriving more than 10 minutes late will earn you half credit for attendance.)

Two More Important Notes

**Honesty:** The grades you receive for work in this course are individual grades; therefore the copying of work (assignments, tests, etc.) is prohibited and all parties involved will receive a zero for that work.

**Participation:** Your class participation grade will be determined based on attendance and participation in lectures and labs. While we are in class, we need to focus on the course. Therefore, the following things could earn you a 5 point penalty on your Attendance/Participation grade.
- Usage of the lab computers for non-class activities (e.g. playing games, watching videos, etc)
- Sleeping, playing on your cell phone during lecture, or disrupting class.

Course Outline (*This is subject to change, but I will let you know in class if it does.*)

<table>
<thead>
<tr>
<th>Week</th>
<th>Chapters</th>
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| 1    | Introduction  
|      | Chapter 1: Introduction to Security |
| 2    | Chapter 2: Malware and Social Engineering Attacks |
| 3    | Chapter 3: Basic Cryptography |
| 4    | Chapter 4: Advanced Cryptography and PKI |
| 5    | **Test 1: Chapters 1-4**  
|      | Chapter 5: Networking and Server Attacks |
| 6    | Chapter 6: Network Security Devices, Design, and Technology |
| 7    | Chapter 7: Administering a Secure Network |
| 8    | Chapter 8: Wireless Network Security |
| 9    | **Test 2: Chapters 5-8**  
|      | Chapter 9: Client and Application Security |
| 10   | Chapter 10: Mobile and Embedded Device Security |
| 11   | Chapter 11: Authentication and Account Management |
| 12   | Chapter 12: Access Management |
| 13   | **Test 3: Chapters 9-12**  
|      | Chapter 13: Vulnerability Assessment and Data Security |
| 14   | Chapter 14: Business Continuity |
| 15   | Chapter 15: Risk Mitigation |
| 16   | **Final Exam** |

Documentation for this Class that Richland Wants You to Know

**Catalog Description:**

**ITSY 1400 Fundamentals of Information Security (4)** This is a WECM Course Number. An introduction to information security including vocabulary and terminology, ethics, the legal environment, and risk management. Identification of exposures and vulnerabilities and appropriate countermeasures are addressed. The importance of appropriate planning, policies, and controls is also discussed. This course is cross-listed as ITSY 1300. The student may register for either ITSY 1300 or ITSY 1400 but may receive credit for only one of the two. (3 Lec., 4 Lab.)
Prerequisites:
Basic computer skills. Required tools include Microsoft Windows, the Internet, and an e-mail address/account. Much of the required work may be completed using a Mac, Linux or BSD computer. Students without a computer have access to Richland College's Computer Lab (upstairs in Del Rio Hall).

Course Objectives:
Students completing this course will be able to outline best practices for the information security goals of confidentiality, integrity, and availability; explain ethical practices; define vocabulary terminology related to information security; explain the importance of planning and administration controls; identify security threats, vulnerabilities, and countermeasures; and identify procedures for security risk management.

Learning Outcomes:
Outline best practices for the information security goals of confidentiality, integrity and availability; explain ethical practices; define vocabulary/terminology related to information security; explain the importance of planning and administrative controls; identify security threats, vulnerabilities, and countermeasures; and identify procedures for security risk management.

CORE / WECM / SCANS Competencies:
• Reading: the ability to analyze and interpret a variety of printed materials - books, documents, and articles
• Writing: the ability to produce clear, correct and coherent prose adapted to purpose, occasion and audience
• Speaking: ability to communicate orally in clear, coherent, and persuasive language appropriate to purpose, occasion, and audience
• Listening: analyze and interpret various forms of spoken communication, possess sufficient literacy skills of writing, reading
• Critical Thinking: think and analyze at a critical level
• Computer Literacy: understand our technological society, use computer based technology in communication, solving problems, acquiring information.
• Intellectual Competencies and Exemplary Educational Outcomes identified by district discipline committees. Check DCCC Course Catalog for more details.

Institutional Policies:
Refer to the Richland College website: www.richlandcollege.edu or to www.richlandcollege.edu/syllabipolicies

Academic Policies:
Students are encouraged to discuss academic goals and degree completion with their instructors. Specific advising is available throughout the semester.

Classroom Policies:
Computer/Internet Policy: Richland College students have access to the Del Rio computer labs for educational and instructional purposes. You are required to show your Richland Student ID when requested by lab personnel. You are expected to follow lab policies as well as the Student Code of Conduct specified in the catalog. During the lab, the computers will only be used for the class activities (tutorials, homework, class research, emailing assignments, etc). Any deviation from this rule will result in loss of participation points.