

IST 6640

Information Assurance for the Enterprise

Spring 2010

Instructor: Dr. Eric Swedin
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Office Hours: 12:30-5:30 on Thursdays at Davis.
Other office hours are available by appointment.

Texts: Kevin D. Mitnick and William L. Simon, *The Art of Intrusion: The Real Stories Behind the Exploits of Hackers, Intruders & Deceivers* (Wiley, 2005). ISBN-13: 978-0764569593.

Linda McCarthy. *IT Security: Risking the Corporation* (Prentice Hall, 2003). ISBN-13: 978-0131011120.

Kevin D. Mitnick, *The Art of Deception: Controlling the Human Element of Security* (Wiley, 2002). ISBN-13: 978-0764542800.

Michael E. Whitman and Herbert J. Mattord. *Management of Information Security*. Second edition (Thomson Course Technology, 2008). ISBN: 978-1-4239-0130-3

Class Description: This graduate course covers the basic principles and concepts in information assurance. It examines the managerial, operational, and organizational issues of securing information systems. Topics include legal and ethical issues in computer security; privacy concerns; malware; security awareness at the executive, technical and user levels; physical security, personnel security issues; policies and procedures; the need for enterprise security awareness; and the need for an enterprise security organization. Case studies and exercises in the computer lab will be used to provide examples of the need for organizations to develop security procedures and policies. Prerequisites: None

Class participation and discussion are expected. While lectures and demonstrations might last one or two hours, for the most part, the class will focus on the discussion of the assigned topics and reading.

Grading Policies: Grades will be determined on the following basis:

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| Quizzes | 35% |
| Online Papers | 30% |
| Class Paper | 35% |

Grades: A: 90 - 100% B: 80 - 89% C: 70 - 79% D: 60 - 69% E: 0 - 59%
(Grades at the high or low ends of these ranges will earn plus and minus grades.)

Students with 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 on the Ogden campus. SSD can also arrange to provide materials (including this syllabus) in alternative formats if necessary.

Quizzes: Starting on the second week of class, there will a quiz every day at the beginning of class. Each quiz will be based on the readings that you were given for that week. You may miss ONE quiz; if you take an extra quiz, it will count as extra credit.

Cheating Policy: Cheating and deceit are not accepted at Weber State University. Cheating on an quiz or assignment, or turning in someone else's work as your own, will result in an E for the class. You may work together on your assignments and papers, but you must turn in your own work. If you quote from a book, article, or web site, you must properly quote and cite your work. **Avoid even the appearance of cheating or plagiarism.**

Online Papers: You will have to write three short essays, due on the days designated on the syllabus.

- each paper will be on a different topic that deals with information assurance.
- each paper will reference at least three online sources.
- each paper will be at least three pages long and you may include diagrams or graphics.
- I may use your paper as the basis for a discussion in class.
- each paper will be handed in digitally by emailing it to me.

Some useful sites for you to look at for ideas and information are:

<http://www.sans.org/>
<http://www.securityfocus.com/>
<https://ia.signal.army.mil/>
<http://www.vmyths.com/>

Class Paper: Due on the last day of class is a ten page class paper. You may choose a topic of your choice (subject to approval by the instructor) or write about what you have learned in this course and how you will apply it. It will be submitted digitally.

Schedule:

| Date | Wednesday |
|-------------|--|
| January 6 | Introduction to class. Introduction to Information Assurance. How public keys work. |
| January 13 | Read Mitnick, <i>The Art of Deception</i> , Preface, Introduction, chapters 1-5. Online paper one due. |
| January 20 | Read Mitnick, <i>The Art of Intrusion</i> , Preface, chapters 1-6. |
| January 27 | Read Mitnick, <i>The Art of Intrusion</i> , chapters 7-11 (skip pages 158 through 214). Online paper two due. |
| February 3 | Read all of McCarthy. |
| February 10 | Read Whitman Mattord, chapters 1-4. Online paper three due. |
| February 17 | Read Whitman Mattord, chapters 5-8. |
| February 24 | Read Whitman Mattord, chapters 9-12. Class paper due. |