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

**Texts:** Eric Cole, *Network Security Bible* (Wiley, 2009) Second edition.  
ISBN-13: 978-0470502495

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

**Class Description:** This course covers the basic principles and concepts in information security and information assurance. It examines the technical, operational, and organizational issues of securing information systems. Topics include operating system issues, viruses, security awareness at the executive, technical and user levels, physical security, personnel security issues, policies, procedures, 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: IST 3620 and IST 4600.

Class participation and discussion are expected. While some lecture might be presented, for the most part, the class will focus on the discussion of the assigned topics and reading.

**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 main campus. SSD can also arrange to provide materials (including this syllabus) in alternative formats if necessary.

**Quizzes:** 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 day. You may miss ONE quiz; if you take that quiz, it counts as extra credit.

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

Quizzes	60%
Individual Projects (2)	40%

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.)

**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.**

**Individual Projects:**

Each student will do these two projects. Each project will have to be demonstrated to the instructor and you will have to submit a four-page report describing what you did (i.e., what products you used, why you used those products, what problems you encountered, what security problem was solved by this project, and what security problem(s) that particular product solves).

- 1) Install Nessus on a Linux server and run a scan against a Linux server and a Windows server. Explain what the results mean.
- 3) Set up two email servers on different machines, send encrypted email from an account on one server to an account on the other server and successfully decrypt the email text.

You will often be downloading trial versions of software and the trial period will run out. Sometimes running CyberScrub (<http://www.cyberscrub.com/>) can let you do reinstall trial software again.

**Campus Closure:** In the event of an extended campus closure, please look at your Weber State email in order for instructions on how we will continue the class via email and the Blackboard online course system.

**Schedule:**

Date	Thursday
January 6	Introduction to class.
January 13	Read Mitnick, <i>The Art of Intrusion</i> , chapters 4-6.
January 20	Read Mitnick, <i>The Art of Intrusion</i> , chapters 7-8.
January 27	Read Mitnick, <i>The Art of Intrusion</i> , chapters 9-11.
February 3	Read Cole, Introduction and chapters 1-3.
February 10	Read Cole, chapters 4-7.
February 17	NO CLASS; you may come and work on individual projects.
February 24	Read Cole, chapters 8-11.
March 3	Read Cole, chapters 12-14. Students 1-2 presentations.
March 10	Read Cole, chapters 15-17. Students 3-4 presentations. <b>Your first project should be graded by now.</b>
March 17	Spring break.
March 24	Read Cole, chapters 18-19. Students 5-6 presentations.
March 31	Read Cole, chapters 20-22. Students 7-8 presentations.
April 7	Read Cole, chapters 23-25. Students 9-10 presentations.
April 14	Read Cole, chapters 26-29. Students 11-12 presentations.
April 21	<b>NO Final Exam</b>