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Text: Corporate Computer and Network Security, Raymond Panko, Pearson Prentice-Hall, 2004, Ed. 1 ISBN: 0-13-038471-2 & On-line Material available on Blackboard.

Learning Objectives: After successfully completing the course students will (1) recognize the importance of establishing and maintaining a reliable security architecture for a business computer network, (2) understand the changes in systems security management and related technologies, (3) evaluate and manage the investment in security systems for computer networks, and (4) recognize the value and dependence on corporate and public networks.

Attendance Policy: This course is delivered via the internet. Class participation and attendance is important. Attendance data will be collected from participation in on-line exercises such as discussions rooms, chats, blogs, and on-line surveys. A list of the due dates for all discussions and quizzes is available on page 4 of this syllabus. **Note these dates in your calendar.** It is important that students have a broadband connection to the net and actively participate in the course. Students should NOT assume that merely turning in the paper and answering the exams is sufficient. The on-line format is offered for convenience and reducing commute time. The course is offered with the same rigor as a face-to-face course and has proctored exams. You must actively engage in the course and ensure adequate time is assigned for course work each week of the semester.

Academic Integrity: Academic integrity is fundamental to the process of learning and evaluating academic performance. Academic dishonesty will not be tolerated.

Students are expected to conduct themselves according to the principles of academic integrity as defined in the statement on Academic Dishonesty in the UNO Judicial Code. Any student or group found to have committed an act of academic dishonesty shall have their case turned over to Judicial Affairs for disciplinary action which may result in penalties as severe as indefinite suspension from the University. Academic dishonesty includes, but is not limited to: cheating, plagiarism, fabrication, or misrepresentation, and being an accessory to an act of academic dishonesty.

Academic dishonesty includes, but is not limited to the following: cheating, plagiarism, tampering with academic records and examinations, falsifying identity, and being an accessory to acts of academic dishonesty. Refer to the UNO judicial code for further information. The judicial code is available online on the UNO website at:  
[http://www.studentaffairs.uno.edu/studentpolicies/policymanual/judicial\\_code\\_pt1.cfm](http://www.studentaffairs.uno.edu/studentpolicies/policymanual/judicial_code_pt1.cfm)

Accommodations: It is University policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities that may affect their

ability to participate in course activities or to meet course requirements. Students with disabilities should contact the Office of Disability Services as well as their instructors to discuss their individual needs for accommodations.

***Course Description for Fall 2009 semester:*** There is a large and growing demand for corporate computer systems security professionals. Increasing dependence on interlinked computers, shared databases, and the rapid development of service oriented architecture (SOA) based applications have made the network a critical part of modern business computer systems. This rapid growth of technology has resulted in a rising gap between employee skills and requirements. This course provides comprehensive coverage of security issues, including cryptography, public key infrastructure, application security, host security, firewalls, access control and site security, incident and disaster response, and security management. A wide array of business cases will be used to illustrate the concepts and discuss management issues.

Graduate students enrolled in MANG 6740 will have their own discussions and exams.

Since we will be completely online for this course, the primary mode of delivery will be recorded lectures, e-mail, and through online asynchronous discussions using the discussion board feature of Blackboard. This semester, the course will have Facebook and iTunes U presence. There will be online quizzes to test your reading assignments, a term paper, and mid-term and final exams.

**This course requires proctored exams; one mid-term and one final. Students can schedule a proctored exam at an authorized testing center or take the exams at the Lakefront Campus. Please note that authorized testing centers may charge a fee for the service. A list of authorized testing centers is available at <http://www.ncta-testing.org/cctc/find.php>**

I will post reading assignments and discussion topics on Blackboard. In addition to the asynchronous communication offered by Blackboard, I will also offer synchronous communication via a chat room. This will not be graded, but by offering regular office hours on line, I hope to be able to answer your questions in an effective manner. This is an optional feature and will be offered if there is a demand for this service from students. I will post summaries of our on-line chats on Blackboard. In addition, this semester the course will have Facebook and iTunes presence.

The main topics match the chapters of the book. I will post a set of slides with broad issues covered in each chapter. On the discussion board, I will post questions/issues on the chapters. I expect your comments regarding these questions to be posted on the discussion board. You can contact me if you find me online in the chat room at other times. Any changes to this schedule will be posted on Blackboard. Please email me if you have any problems. My alternate email addresses (if UNO's email system fails) is [sathimahesh@gmail.com](mailto:sathimahesh@gmail.com). Use this address ONLY IF UNO's email is unavailable.

I am certain you will find this to be an excellent semester, and understand the deep impact of the net on all business models. As we work our way through the material in the textbook, I will focus on some areas in greater detail than others. I do not like to limit the reading assignments up front, and I really hope you read the e-book prior to class. Rather than lecturing the topics already covered in the book, I will lead discussions on crucial points raised in the text. In addition, feel free to ask me anything that is unclear from your first reading of the material, I will use the discussions to clarify issues. This course is a MIS elective for Business students.

Class 1: Aug 28	Introduction: Security Framework, Security Problems - Business Case Studies	Chapter 1, Chapter 1A
Class 2: Sep 4	Managing Access Control and Site Security	Chapter 2
Class 3: Sep 11	Internet Protocols and Security + IPv6	Chapter 3, Notes
Class 4: Sep 18	Threats - Attacks	Chapter 4
Class 5: Sep 25	Security - Firewalls (Technology and Management)	Chapter 5
Class 6: Oct 2	Managing Security of Host Machines	Chapter 6
Class 7: Oct 17	<b>Mid – Term Exam: Exam on Saturday, October 17th @ 10:00 A.M. Any off-campus proctored exams must be conducted between Oct 14 and Oct 17.</b>	<b>See Exam Note.</b>
Class 8: Oct 23	Cryptography Systems	Chapter 7, 8
Class 9: Oct 30	Business Cases - Security Architecture	Chapter 7, 8
Class 10: Nov 6	Application Security	Chapter 9
Class 11: Nov 13	Incident and Disaster Response	Chapter 10
Class 12: Nov 20	Risk Analysis, Vulnerability Testing, Other Issues	Chapter 11
Class 13: Dec 4	Summary	Chapter 12
Final Exam: Dec 11	<b>Final Exam: Exam on Saturday, December 5 @ 10:00 A.M. Any off-campus proctored exams must be conducted between Dec 7 and Dec 12.</b>	<b>See Exam Note.</b>

### **Term Paper:**

For your term paper you must first select a topic on Network Security. This can be a relevant technology or a business case study dealing with network security issues. Post (50 words) the term paper topic in the discussion board by September 25th.

**Your final paper is due on November 20th, 2009.** The paper should be typed double-space, in Times Roman 12, with 1 inch margins on all sides. The paper should be 10 pages, with the first page devoted to an Executive Summary. References must be in a separate section (not in the 10 pages for the paper). Appendices are optional. Tables/Diagrams that are necessary to communicate your ideas can be added at the end of the paper (not in the 10 page limit).

Papers should be submitted electronically via Blackboard's digital dropbox. Do not hesitate to email me if you have any questions.

### **Grading policy**

On Line Discussions on the discussion board: (6) (9/4-9/11, 9/18-9/25, 10/2-10/9, 10/23-10/30, 11/6-11/13, 11/20-11/30)	18%
On Line quizzes (4) (9/11-9/15, 9/25-9/29, 10/30-11/3, 11/13-11/17)	16%
Term Paper (Topic Due 10/2, Paper Due 11/20)	22%
Mid Term Exam (Oct 17)	20%
Final Exam (Dec 5)	20%
Attendance (monitored online)	4%

**Exams:** The exams are proctored and conducted on campus or at alternate testing centers approved by the university. A list of authorized testing centers is available at <http://www.ncta-testing.org/cctc/find.php>. You must get approval from the instructor for any alternative arrangements.