

Course	SECR 5080 – Information Systems Security
Term	Summer 2007
Instructor	Darryl Thibault, JD, CPP 619-297-9959 DRT1083@aol.com
Catalog Description	Students examine the management of information security and data-processing facilities, including thefts of data, unauthorized uses of information technology, computer viruses, and methods of protecting information, with an emphasis on networked computers. The course covers information technology laws, issues of privacy, and security planning.
Prerequisites	Must be capable of graduate work. Should have attended SECR 5000 and/or have experience in security management or have cleared attendance in advance with the instructor.
Course Level Learning Outcomes	<p>After completing this course, students should have an understanding of :</p> <ul style="list-style-type: none"> • concept of confidentiality, integrity, and availability as applied to Information Systems Security • authentication, authorization, and permission as applies to security policy. • protection theory and strategy as applied to networks, computer, and communication devices. • managerial roles in securing the Information Systems environment. • technical controls and devices used to achieve secure environments. • managerial controls used to achieve secure environments • policy theory, application, and practice. • risk assessment of networked computers, networking devices, and organizational practices. • security models to include application development, network infrastructure, and physical facility. • disaster planning and disaster recover models. • laws and issues of privacy. <p>In addition, students will:</p> <ul style="list-style-type: none"> • apply the important terminology, facts, concepts, principles and theories in the field of Business and Organizational Security Management to analyze simple to moderately complex factual security situations. • creatively construct and implement moderately complex Business and Organizational

	<p>Security Management solutions to real organizational problems using frameworks procedures, and methods derived from the individual security discipline of Information Systems Security.</p> <ul style="list-style-type: none"> • assess the effectiveness of their solutions by quantitatively or qualitatively measuring their results against theory-based criteria and standards of performance. • utilize themselves as scholar-practitioners, capable of creatively synthesizing intellectual understanding of security models with methodological competencies and experience-based perceptual skills and judgment. 																												
Materials	<p>1. Required Text:</p> <p>Protecting Business Information : A Manager's Guide</p> <p>Author: Schweitzer, James A. Edition: 96 ISBN: 0-7506-9658-3 Publisher: Butterworth Heinemann Book Type: Hardback</p> <p>I</p> <p>2. Reference Text (recommended but not required to purchase): Principles of Information Security by Michael E. Whitman & Herbert J. Mattord. 2003. Thompson Course Technology. Boston, Mass. Chapters 1, 3, 9, and 11 (recommended readings). ISBN 0-619-06318-1</p>																												
Grading	<p>Percentage of Total Points Grade</p> <table border="0"> <tr><td>100 –</td><td>93.4%</td><td>.....</td><td>A</td></tr> <tr><td>93.3 --</td><td>90.0%</td><td>.....</td><td>A-</td></tr> <tr><td>89.9 –</td><td>86.7%</td><td>.....</td><td>B+</td></tr> <tr><td>86.6 –</td><td>83.4%</td><td>.....</td><td>B</td></tr> <tr><td>83.3 –</td><td>80.0%</td><td>.....</td><td>B-</td></tr> <tr><td>79.9 –</td><td>70.0%</td><td>.....</td><td>C</td></tr> <tr><td>69.9 –</td><td>0%</td><td>.....</td><td>F</td></tr> </table> <p>Course Grades Your course grade will be based on your scores on your examinations, paper, presentation, and your contributions to the class discussions. These different components will be weighted as follows:</p> <ul style="list-style-type: none"> • Research Paper: 30% • Class Presentation: 10% • Class Discussions/Participation 10% • Mid-term test: 25% • Final test: 25% <p>The GRADUATE catalog provides these guidelines and grading options:</p> <ul style="list-style-type: none"> • A/A– Superior graduate work • B+/B/B– Satisfactory graduate work • C Work that is barely adequate as graduate-level performance • CR Work that is performed as satisfactory graduate work (B– or better). A grade of "CR" is reserved for courses designated by a department, involving internships, a thesis, practicums, or specified courses. • F Work that is unsatisfactory • I Incomplete work • ZF An incomplete which was not completed within one year of the end of the course. 	100 –	93.4%	A	93.3 --	90.0%	A-	89.9 –	86.7%	B+	86.6 –	83.4%	B	83.3 –	80.0%	B-	79.9 –	70.0%	C	69.9 –	0%	F
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	<p>ZF is treated the same as an F or NC for all cases involving G.P.A., academic warning, probation, and dismissal.</p> <ul style="list-style-type: none"> • IP In progress • NR Not reported • W Withdrawn from the course
<p>Activities</p>	<p><u>Research Paper Project</u> Research paper project should follow the APA stylebook format. Good technical writing is concise, is void of colloquialisms, is absolutely nonsexist, and is generally written in the third-person. Pay particular attention to the way you use headings and sub-headings to clarify the organization of your paper. Your paper should be in the range of ten pages (excluding references, tables, and appendixes). See APA Form and Style manual for additional guidance on format. Students will make a presentation of the Research Paper Project in class. The presentation is part of the overall Research Paper Project grade.</p> <p><u>Example of Research Paper Project Sections (parts of the paper)</u></p> <ul style="list-style-type: none"> -Title Page -Table of Contents -List of Figures (Optional) -List of Tables (Optional) -Abstract (one page maximum) -Introduction -Multiple Sections on the Topic -Conclusion -Reference <p><u>Class Presentation</u> Students are expected to complete a research paper on a topic dealing with Security Administration and Management. They are also expected to prepare a 10 minute class presentation, supported by electronic projection (Microsoft® PowerPoint®) that highlights the student's research.</p> <p><u>Midterm and Final Exams</u> Each exam will be given in class. The midterm exam will be given during week five class and the final during week nine class.</p>
<p>Policy Statements: University Policies</p>	<p>University policies are provided in the current course catalog and course schedules. They are also available on the university website. This class is governed by the university's published policies. The following policies are of particular interest:</p> <p><u>Academic Honesty</u> The university is committed to high standards of academic honesty. Students will be held responsible for violations of these standards. Please refer to the university's academic honesty policies for a definition of academic dishonesty and potential disciplinary actions associated with it.</p> <p><u>Drops and Withdrawals</u> Please be aware that, should you choose to drop or withdraw from this course, the date on which you notify the university of your decision will determine the amount of tuition refund you receive. Please refer to the university policies on drops and withdrawals (published elsewhere) to find out what the deadlines are for dropping a course with a full refund and for withdrawing from a course with a partial refund.</p>

	<p><u>Special Services</u> If you have registered as a student with a documented disability and are entitled to classroom or testing accommodations, please inform the instructor at the beginning of the course of the accommodations you will require in this class so that these can be provided.</p> <p><u>Disturbances</u> Since every student is entitled to full participation in class without interruption, disruption of class by inconsiderate behavior is not acceptable. Students are expected to treat the instructor and other students with dignity and respect, especially in cases where a diversity of opinion arises. Students who engage in disruptive behavior are subject to disciplinary action, including removal from the course.</p> <p><u>Student Assignments Retained</u> From time to time, student assignments or projects will be retained by The Department for the purpose of academic assessment. In every case, should the assignment or project be shared outside the academic Department, the student's name and all identifying information about that student will be redacted from the assignment or project.</p> <p><u>Contact Hours for this Course</u> It is essential that all classes meet for the full instructional time as scheduled. A class cannot be shortened in length. If a class session is cancelled for any reason, it must be rescheduled.</p>
<p>Course Policies</p>	<p>Students are to submit all required products in a consistent and timely basis.</p> <p>ATTENDANCE POLICY: "The University reserves the right to cancel a student's course enrollment if the student does not attend class the first or second week of the term/semester. Students are expected to attend all class sessions. In the case of unavoidable absence (e.g., medical reason, work related travel), the student must contact the instructor directly and immediately. The instructor may give warning to the student and then recommend that the student withdraw from the course. The student is subject to appropriate academic penalty for incomplete or other make-up work, or for excessive or unexcused absences. A student who misses two class meetings per course without a documented reason or (advance) permission from the instructor should withdraw from the course."</p>
<p>Weekly Schedule</p>	<p>Week One: Reading: chapters 1, 2 and 4 in Schweitzer. Chapter 1 in Whitman. Discuss text, syllabus, assignments, quizzes, and requirements to include research project. Scope of course, categories of information and what information protection encompasses— intellectual property, proprietary information, trade secrets, state secrets, the Internet, computer data, communications, other areas of concern.</p> <p>Week Two: Reading : chapter 6 in Schweitzer. Chapter 9 in Whitman (recommended) Discussion: Review of security concepts as foundation for information security. Physical security concerns, personnel, policies, procedures, technology, legal issues. Key components of an information security system. Privacy concerns.</p> <p>Week Three: Reading: chapter 3 and 5 in Schweitzer. Discussion: Threat identifications. Vulnerability assessment. Competitive intelligence, business intelligence, industrial espionage. OPSEC for the private sector. Legal issues. EEA of 1996.</p> <p>Week Four: Reading: 10 in Schweitzer. Chapter 3 in Whitman (recommended).</p>

Discussion: How the government protects its secrets. Foreign intelligence services, international organized crime. TSCM, IMPS, Compartmentation, etc. New technologies, new methodologies. Management concerns.

Week Five:

Reading: chapters 11 in Whitman (recommended)

Assignments and Activities: Midterm Exam

Discussion: Security and personnel. Privacy concerns vs. corporate needs. Team management and working with other corporate departments—HR, Legal, Public Affairs, Finance, Board of Directors, etc.

Week Six:

Reading: chapters 8 and 9 in Schweitzer.

Discussion: In-class exam review. Guest speaker on Computer issues and telecommunications security. The Internet. Emerging information technology security concerns.

Week Seven:

Reading: Chapter 13 in Schweitzer.

Discussion: Review and overflow from previous classes.

Week Eight:

Reading: chapter eleven

Assignments and Activities: Start of student in-class presentations.

Review and preparation for final exam. Continuation of previous discussions.

Week Nine:

Assignments and Activities: Final Exam.

Continuation of in-class student presentations.

Course Wrap up