

Course	ITM 5600 – Information and Communications Security								
Term	Spring 2, 2010, Mar 15 – May 15								
Instructor	Name: Garner, Jerald L. Phone: 501-944-2967 Email: jlgar@att.net								
Catalog Description	This course focuses on the analysis and management of information and information systems security including processes, technology, and facilities.								
Prerequisites	ITM 5000 – Information Technology Management - Overview								
Course Level Learning Outcomes	<p>After completing this course, students will:</p> <ul style="list-style-type: none"> • know and explain the important technical and management terminology, concepts, principles, techniques, and theories related to the technical aspects of information and communications security management. • be able to effectively apply important technical and management concepts, principles, practices, techniques, and theories needed to critically analyze an organization’s information and communications security requirements. • be able to effectively apply important technical and management concepts, principles, practices, techniques, and theories needed to design and recommend appropriate security solutions. • be able to effectively apply important technical and management concepts, principles, practices, techniques, and theories needed to manage the implementation and on-going administration of recommended security solutions. 								
Materials	<p>Management of Information Security by Michael E. Whitman and Herbert J. Mattord, 2007, Publisher: Cengage Deimar Learning ISBN: 9781423901303</p> <p>Access the Virtual Bookstore at http://bookstore.mbsdirect.net/WEBSTER.HTM or you can call MBS Direct at 800-325-3252.</p>								
Grading	<p>Scale: (percent of final grade)</p> <table> <tr> <td>Class participation/attendance</td> <td>20%</td> </tr> <tr> <td>Group/individual Project (written/oral presentation)</td> <td>20%</td> </tr> <tr> <td>Mid Term Exam</td> <td>30%</td> </tr> <tr> <td>Final Exam</td> <td>30%</td> </tr> </table> <p>Grading Scale 93-100 A 90-92 A- 87-89 B+ 83-86 B 80-82 B- 70-79 C 0-69 F</p>	Class participation/attendance	20%	Group/individual Project (written/oral presentation)	20%	Mid Term Exam	30%	Final Exam	30%
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	<p>Course Requirements The GRADUATE catalog provides these guidelines and grading options:</p> <p>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. ZF is treated the same as an F or NC for all cases involving G.P.A., academic warning, probation, and dismissal. IP In progress NR Not reported W Withdrawn from the course</p>
<p>Activities</p>	<ul style="list-style-type: none"> • Short lectures • Facilitated discussions of assigned readings • Short, moderately complex cases and exercises • Project/Term research/presentation • Midterm and final exams
<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>A student may submit their term paper to the On-Line Writing Center in St. Louis by email and have a coach make suggestions/corrections. It is up to the student to allow sufficient time for this process to be utilized and still turn in the term paper on the assigned date. Go to http://www.webster.edu/acadaffairs/asp/wc/online.html</p> <p>Academic Honesty 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>Drops and Withdrawals Please beware 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>Special Services 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>Disturbances Since every student is entitled to full participation in class without interruption, all students are expected to be in class and prepared to begin on time. All pagers, wireless phones, or other electronic devices must be turned off, or switched to vibrate, when you enter the classroom.</p> <p>Disruption of class, whether by latecomers, noisy devices, or 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>Student Assignments Retained 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>Contact Hours for this Course 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>
Course Policies	Attendance at all class sessions is expected. Late assignments will be accepted if prior arrangements have been made with the instructor, but will be given reduced points based upon number of class sessions it is late.
Week 1:	Course Overview – Introduction to the Management of Information Security. Current and future threats with projected 2009 threats.

Week 2:	Planning for Information and Systems Security. Network, Internet, endpoint, and server security issues will be discussed. Patch management and malware protection tools. Group topics due, discussion of research papers.
Week 3:	Information Security Policies, procedures and standards. Discussion of policies, procedures, guidelines in a corporate environment. Different certifications in the security field.
Week 4:	Developing the Information Security Program. Constructing and implementing a program, with discussions on Incident Response Teams and security awareness training.
Week 5:	Information Security Models and Practices – Mid Term
Week 6:	Information Protection: Identifying, Assessing, and Controlling Risk. IT risk assessment with discussion outlining Octave and NIST risk assessment method's.
Week 7:	Protection Mechanisms (e.g., access controls, firewalls, intrusion detection/prevention systems, cryptography) Areas to be discussed are multi-factor authentication, types of F/W's and detection methods.
Week 8:	Staffing and Administering the Security Function; Legal, Ethical, and Privacy Issues in Information Security – Tools of the trade; Nmap, NetScan, NetCat, and many others.
Week 9:	Comprehensive Final Exam
Additional Information	Any and all methods to enhance the learning process in the classroom will be utilized.
Approved by	Michael Hostetler, Faculty Coordinator, 27 Nov 2009