

Course	ITM 5600 KE – Information and Communications Security
Term	Fall 2, 2009, Lackland AFB, TX
Instructor	Name: Brian J. MacDougald Phone: (210) 651-4600 hm / (210) 291-6027 cell Email: bmacdougald84@webster.edu
Catalog Description	This course focuses on the analysis and management of information and information systems security including processes, technology, and facilities.
Prerequisites	<i>ITM 5000 – Information Technology Management – Overview.</i>
Course Level Learning Outcomes	After completing this course, students will: <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	Title: <i>Fundamentals of Network Security</i> , 4 th edition Author: Eric Maiwald Publisher: McGraw Hill Technology Education ISBN: 0-07-223093-2
Grading	Assignments Security Paper: 20% Labs: 10% Midterm Exam 35% Final Exam: 35%
Activities	<ul style="list-style-type: none"> • General Information: Students are expected to attend and participate in all class activities. Individuals missing class because of work related activities are asked to provide documentation to support the absence. Specific details on the content and format of student-produced products will be provided at the beginning of the term. • Term Paper: Students will craft a term paper on a topic relating to information security. Paper must be a minimum of 10 pages (plus bibliography), utilize multiple sources, and be written in APA style. Topic will be chosen by the instructor.

	<ul style="list-style-type: none"> • Examinations: The exams will cover subject matter presented in the textbook, plus ancillary material provided by the instructor. • Lab: Weekly in-class labs will be accomplished covering a wide variety of topics presented during the class period.
<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> <ul style="list-style-type: none"> • 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. • Drops and Withdrawals: 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. • 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>Disturbances: 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>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> <ul style="list-style-type: none"> •
<p>Course Policies</p>	<ul style="list-style-type: none"> • Academic Dishonesty: Webster University strives to be a center of academic excellence. As part of our Statement of Ethics, the University strives to preserve academic honor and integrity by repudiating all forms of academic and intellectual dishonesty, including cheating, plagiarism and all other forms of academic dishonesty. Academic Dishonesty is unacceptable and is subject to a disciplinary response. See the Webster University Graduate Catalog for a complete description. The University reserves the right to utilize electronic databases, such as <i>Turnitin.com</i>, to assist faculty and students with their academic work.

Weekly Schedule	Week	Topics	Chapter Readings	Assignments	Exams / Deliverables
	1 Oct 19	Course Introduction What is Information Security Types of Attacks Hacker Techniques	 1 2 3	Lab 1	
	2 Oct 26	Information Security Services Legal Issues in Info Security Policy	4 5 6	Lab 2	
	3 Nov 2	Managing Risk Information Security Process Info Security Best Practices Midterm Review	7 8 9	Lab 3	
	4 Nov 9	Firewalls Virtual Private Networks	10 11	Lab 4	Midterm Exam (Ch 1 – 9)
	5 Nov 16	Encryption Intrusion Detection Desktop Protection	12 13 14	Lab 5	
	6 Nov 23	UNIX Security Issues Windows NT Security Issues	15 16	Lab 6	
	7 Nov 30	Win 2k/2k3 Server Sec Issues Internet Architecture	17 18	Lab 7	Security Papers Due
	8 Dec 7	E-Commerce Security Needs Wireless Security Final Review	19 20	Lab 8	
	9 Dec 14	Course Wrap-up			Final Exam (Ch 10 – 20)
Additional Information	<p>Supplementary information for the course is available at: http://www.sans.org/ http://sourceforge.net/ http://packetstorm.linuxsecurity.com/ http://www.metasploit.com/ http://csrc.nist.gov/publications/nistpubs/index.html:</p> <p><i>Hacking Exposed (any recent edition)</i>, McClure, Scambray & Kurtz, Osborne/McGraw-Hill Publishing, ISBN 0-07-219-381-6</p> <p><i>GSEC Security Essentials Toolkit</i>, Cole, Newfield & Millican, © 2002 Que Publishing, ISBN 0-7897-2774-9</p> <p>This syllabus may be revised without the prior notification or consent of the students.</p>				

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