Webster UNIVERSITY

The School of Business & Technology

Course Syllabus

Course	ITM 5100-KE – Information and Communications Systems & Networks
Term	Spring 1, 2008, Location: Lackland AFB, Texas
Instructor	Name: Brian J. MacDougald Phone: (210) 651-4600 home / (210) 291-6027 work Email: bmacdougald@satx.rr.com bmacdougald84@webster.edu
Catalog Description	This course introduces students to the technical aspects of information and communications networks and technology. The course focuses on the interdependencies among information and communications technologies and architectures. Emphasis will be placed on the fundamentals of networks (LAN and WAN).
Prerequisites	ITM 5000 – Information Technology Management – Overview
Course Level Learning Outcomes	As a result of this course, students will: • Know and explain the important technical terminology, concepts, principles, techniques, and theories related to the technical aspects of information and communications networks and technologies, with an emphasis on the fundamentals of networks (LAN and WAN). • Explain the interdependencies among information and communications technologies and architectures. • Have the technical knowledge and background needed to explain data and voice communications systems and networks, and the interconnectedness of these technologies
Materials	*All-in-One Network+ Certification Exam Guide (Third Edition)*. Author: Michael Meyers Publisher: Osborne Press ISBN: 0-07-225345-2
Grading	Network Project: 20% Labs: 10% Midterm Exam 35% Final Exam: 35%
Activities	• 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. • Network Project: Students will be provided information on a notional company and the current state of its network. They will develop a comprehensive network plan including topology, security, bandwidth considerations, and potential for future growth. Students will be prepared to present their completed projects to the class for discussion. • Final Exam: The final exam will cover subject matter presented in the

	textbook, plus ancillary material provided by the instructor and discussed in class. • Lab: Weekly in-class labs will be accomplished covering a wide variety of topics presented during the class period.
Policy Statements: University Policies	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: • **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. • **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. • **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. • **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.
Course Policies	• **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 *Turnitin.com*, to assist faculty and students with their academic work.				
Weekly Schedule	**Week**	**Topics**	**Chapter Readings**	**Assignments**	**Exams**
	1 Mar 19	Course Introduction Network Project Overview Defining Networking Building a Network with OSI Model	 2 3	Lab 1	
	2 Mar. 26	Hardware Concepts Ethernet Basics Modern Ethernet	4 5 6	Lab 2	
	3 April 2	Non-Ethernet Networks Installing a Physical Network	7 8	Lab 3	
	4 Apr 9	Wireless Networking Protocols TCP/IP	9 10 11	Lab 4	
	5 April 16	Network Operating Systems Sharing Resources	12 13	Lab 5	Midterm Ch 1 - 11
	6 April 23	Going Large with TCP/IP TCP/IP and the Internet Remote Connectivity	14 15 16	Lab 6	
	7 April 30	Protecting Your Network Interconnecting Network Operating Systems	17 18	Lab 7	Network Project Due
	8 May 7	The Perfect Server Zen and the Art of Network Support Project Presentation Course Review	19 20	Lab 8	Network Project Presentations
	9 May 14	Course Wrap-up			Final Exam Ch 12 - 20
Additional Information	This syllabus may be revised without the prior notification or consent of the students.				