

Course	ITM 5100 – Information and Communications Systems and Networks
Term	Fall 1, Aug 17 – Oct 2009
Instructor	Name: Bruce Bauer Phone: 501-416-1234 Email: bauerb@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	After completing this course, students will: <ul style="list-style-type: none"> • 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). • know and 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	<i>Applied Data Communications</i> , 4th Edition James Goldman, John Wiley and Sons, 2004 ISBN 0-471-34640-3
Grading	<ul style="list-style-type: none"> • Assessment Exam 10 points • Midterm Exam 40 points • Final Exam 50 points <p>Total Possible Points 100 points</p> <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>

	<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 IP In progress NR Not reported W Withdrawn from the course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>
Activities	Computer Laboratory Work as Directed
Policy Statements: University Policies	<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 (generally 7-10 days) 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>
<p>Course Policies</p>	<p>Each student is responsible for his/her academic advancement. It is expected that the student will read the assignments prior to class and will have questions ready for the lecture period.</p> <p>Classes begin promptly at 5:30 p.m. Students not present at the beginning of class will be counted as absent.</p> <p>Exams will be given on the weeks indicated in the syllabus. Makeup exams will not be given. Any student missing an exam or failing an exam will be referred to the Webster Academic Advisor.</p>
<p>Week 1:</p>	<p>August 17, 2009 Chapter 1 - The Data Communications Industry - Pages 1-33 Chapter 5 - Voice Communications Concepts and Technology - Pages 163-207</p>

Week 2:	August 24, 2009 Assessment Exam Chapter 2 - Data Communications Concepts – Pages 34-42, 52-70 Chapter 3 - Basic Data Communications Technology - Pages 71-94, 101-113
Week 3:	August 31, 2009 Chapter 4 - Local Area Network Architectures - Page 114-162 Chapter 7 - Local Area Networks Communications Protocols Pages 250-262, 272-282, 288-289
Week 4:	September 8, 2009 <i>(Note Day Change due to Labor Day Holiday)</i> Chapter 6 - Wide Area Networks - Pages 208-217, 222-235 Handout
Week 5:	September 14, 2009 Midterm Exam Chapter 9 - LAN Remote Access and Wireless Networking - Pages 258-274
Week 6:	September 21, 2009 Chapter 11 - Network Management - Pages 425-450; 458-462, 471-476 Chapter 12 - Network Security - Pages 477-533
Week 7:	September 28, 2009 Enterprise Networks and the Internet - Handout
Week 8:	October 5, 2009 Chapter 10 - Network Development Lifecycle - Pages 375-424 Future Trends
Week 9:	October 12, 2009 Final Exam
Additional Information	
Approved by	Michael Hostetler, Faculty Coordinator, April 22, 2009