

**UNIVERSITY OF MISSOURI – ST. LOUIS**  
**IS 3842 Management of Telecommunications**  
**Spring 2013**

Professor: Dr. Dinesh A. Mirchandani  
Office Location: 217 ESH  
Office Hours: By appointment  
Office Phone: 314-516-7354  
E-mail: mirchandani@umsl.edu and mirchandani@sbcglobal.net (for assignments)  
Classroom Location: 134 SSB  
Class Days/Times: M 6.55 – 9.35 pm

**Textbook:**

*Business Data Communications - Infrastructure Networking and Security* (7th Edition, 2013) by William Stallings and Thomas Case, Pearson Prentice Hall, ISBN-10: 0133023893, ISBN-13: 978-0133023893.

**Description:**

The technical and managerial aspects of telecommunications as they apply to the business environment are discussed. Issues include communications components and services, local area and wide area network architecture, managerial implications, organizational issues, and cost/benefit analyses.

**Learning Objectives:**

Students will learn about the technology of voice communications, voice and data transmission media and control, communications circuits and networks, and communications protocols. They will also examine managerial issues such as network design and implementation, network security, and management of the network. Additionally, students will become familiar with industry standards on network architectures and communication protocols and be able to assess future developments in the telecommunications area.

**Internet Access and E-Mail:**

All students should obtain access to the Internet and an e-mail account. If you have any questions about the course or need assistance, please contact me in person or by e-mail at any time.

**Assignments:**

Assignments are due at the beginning of class on the date they are due and you will be given about a week's time to complete them. All assignments are to be completed individually.

**Tentative Course Schedule:**

<b>Classes on</b>	<b>Topic</b>	<b>Chapter</b>
1/28	Introduction	1
2/4	Business Information (Chapter 2)	2
2/11	Data Transmission (Chapter 4)	4
2/18	Data Communication Fundamentals	5

2/25	Data Link Control and Multiplexing	6
<b>3/4</b>	<b>Exam 1</b>	<b>Chapters 1, 2, 4, 5, 6</b>
3/11	The Internet and TCP/IP	7, 8
3/18	Client Server, Intranet and Cloud Computing	9
<b>3/25</b>	<b>Spring Break</b>	
<b>4/1</b>	<b>Take Home Exam 2 (No class)</b>	<b>Chapters 7, 8, 9</b>
4/8	LAN Architecture and Infrastructure	12
4/15	Ethernet, Switches and Virtual LANs	13
4/22	Wireless LANs	14, 15
4/29	Computer and Network Security Threats	18
5/6	Computer and Network Security Techniques	19
<b>5/13</b>	<b>FINAL EXAM (7.30 – 9.30 PM; 134 SSB)</b>	<b>Chapters 12, 13, 14, 15, 18, 19</b>

### Grade Components:

Evaluation Criteria	Percentage of Grade
Exam 1 (multiple choice, short essays, numerical problems)	25 %
Exam 2 (multiple choice, short essays, numerical problems)	10 %
Final Exam (multiple choice, short essays, numerical problems)	25 %
Assignments (cases, numerical problems, research papers, presentation)	40 %

### Requirements for turning in Assignments:

- E-mailed to [mirchandani@sbglobal.net](mailto:mirchandani@sbglobal.net) before class by the due date

### Grade Distribution Scale:

Grades will be assigned fairly based on natural breaks in the grade distribution.

### Student Disability:

If anyone has a health condition or disability, which may require accommodations in order to effectively participate in this class, please let me know. This information will be kept strictly confidential.

### Campus Safety

- All members of the UMSL community are invited to register their cell and office phone numbers to receive notification of any pending danger on campus. Find instructions here: <http://safety.umsl.edu/police/services/3n.html>
- In the event of an emergency on campus, call Campus Police at 314.516.5155. A call to 911 on a cell phone only, will go to the St. Louis County Police. The St. Louis County Police will notify UMSL Police, but this may cause a delay in response. Campus Police know the best way to escort emergency vehicles to locations on campus.
- If you do not feel comfortable walking to a parking lot, MetroLink stop, or anywhere else on campus, contact the Campus Police for an escort: 314.516.5155.