CRN 31166 CST K176
Course Syllabus 26 Aug 2009

GENERAL COURSE INFORMATION
Course: CRN 31166 CST K176 T01 INTERNET TECHNOLOGIES, Room B227
Hours: 1720 - 0950
Instructor: Ronald Leask
Office: Three Rivers Community College Room C170 (Next to Cyber Café)
Office Hours: MTR 0800 1000, TW, 1600-1700 hours
Office Phone: 885-2391
E-mail: rleask@trcc.commnet.edu; Send me an e-mail if cannot attend class

Textbook: Computer Networks and Internets, 5/e, Douglas E. Comer,
Pearson/Prentice Hall, ISBN 10: 0-13-606698-4

**COURSE OBJECTIVES: This course surveys the various technologies that form
and make the Internet work. It will prepare students to understand current
Internet technologies and make intelligent business decisions concerning the
Internet. The student will acquire detailed knowledge of a wide range of internet
basics, the knowledge and skills required to use and update client software, and to
assist in the administration of internet/intranet sites. Additionally, the student will
acquire some knowledge of programming related terms and the differences between
popular client and server programming language.**
- **Includes access to website**
- **Ethereal Network Protocol Analyzer Software**

Overheads will be put on mycommnet.com or distributed in class.

Required: Flash drive ~ 1 Gbytes, Cost ~ $20.00, to hold all work.

GRADING AND EVALUATION CRITERIA:
60% of grade is based on class exams of major sections
30% of grade is based on end of chapter quizzes
10% for class precipitation and attendance
Students should keep a course notebook of homework and notes
**Syllabus is subject to change to correct errors and when new information becomes
available.**

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Week	Date	Chapter/Topic	Quizzes or Exams	Assignments /Labs
		Part I Introduction and Internet Applications		
1	8/26/09	1 Introduction And Overview, 2 Internet Trends		
2	9/2/09	3 Internet Applications And Network Programming,		
3	9/9/09	4 Traditional Internet Applications		
		Part II Data Communication Basics	**Exam/Quiz**	
4	9/16/09	5 Overview Of Data Communications, 6 Information Sources and Signals		
5	9/23/09	7 Transmission Media, 8 Reliability And Channel Coding		
6	9/30/09	9 Transmission Modes, 10 Modulation and Modems		
7	10/7/09	11 Multiplexing And Demultiplexing (Channelization), 12 Access And Interconnection Technologies		
		Part III Packet Switching and Network Technologies	**Exam/Quiz**	
8	10/14/09	13 Local Area Networks: Packets, Frames, And Topologies, 14 The IEEE MAC Sub-Layer		
9	10/21/09	15 Wired LAN Technologies (Ethernet And 802.3), 16 Wireless Networking Technologies		
10	10/28/09	17 LAN Extensions: Fiber Modems, Repeaters, Bridges, and Switches, 18 WAN Technologies And Dynamic Routing, 19 Networking Technologies Past And Present		
		Part IV Internetworking	**Exam/Quiz**	
11	11/4/09	21 Internetworking: Concepts, Architecture, and Protocols, 22 IP: Internet Addressing		
	11/11/09	**No Class**		
12	11/18/09	23 Datagram Forwarding, 24 The Future IP (IPv6)		
	11/25/09	**Possible Make Up**		
13	12/2/09	**25** UDP: Datagram Transport Service, 26 TCP: Reliable Transport		

		Service		
14	**12/9/09**	27 Internet and Routing Protocols		
		Part V Other Networking Concepts & Technologies	**Exam/Quiz**	
15	**12/16/09**	28 Network Performance (QoS and DiffServ), 29, Multimedia And IP Telephony (VoIP), 32 Trends In Networking Technologies And Uses		