COURSE SYLLABUS

COM640: Distributive Communications and New Technology

Course Description

Explores the basics and convergence of current data and voice communications on a local and global level, utilizing both conducted and radiated media. Reference and usage networking models are employed to reduce the complexity of the communications systems involved. Important protocols and standards at various networking layers are discussed in detail.

General Course Information

Number of Units/Weeks/Sessions	5/5/10
#Hours Lecture/#Hours Laboratory/#Hours HWs*	50/0/100
Prerequisite(s)	None
Co-requisites (s)	None
Course Developer(s)	A. Powell, M.S.
Date Approved / Last Review	February 2006/ August 2014

*Homework Projects

MSISM Program Learning Outcomes

- Propose an Information Technology Security Plan for a Global Business
- Diagnose a Firm's E-Commerce Capability

Learning Outcomes

- Assess network management.
- Consider how Layered Standards Architecture, TCP/IP, OSI Architectures and other network standards apply to the IT world.
- Discriminate how network topologies, wiring standards, twisted pair wire, and connectors together with Routers, Switches and Hubs all work to form an Ethernet LAN or other wired networks.
- Experiment with networked applications like network security, traditional application, electronic mail, World Wide Web(www) and E- commerce are their use in the business world.

Instructional Methods Employed in this Course

- Lecture and reading assignments
- Hands-on exercises and labs
- Research
- Student presentations
- Practical application of theory and skills in authentic design projects

- Build on prior knowledge and experience of students to enhance richness of class activities

Information Resources for this Course

Textbook

Panko, R. (2007). Business data networks and telecommunications, 7th edition. Upper Saddle River: Prentice Hall. ISBN-13: 978-0-13-615340-5.

Other Materials

None

Web Site Readings

None

Table/Topics & Assignments

Types of Assignments:
Lecture -
Considered Lecture Hours

Classroom Discussion -
Considered Lecture Hours

In Class Critique -
Considered Lecture Hours

Delivering Oral Presentations -
Considered Lecture Hours

In Class (IC) Exercise -
Considered Lecture Hours

Reading -
Considered Homework (HW), work done outside of class

WebClass lesson (non-online courses) -
Considered HW, work done outside of class

Lab Work -
Considered Lab Hours

Quiz, Midterm or Final -
Considered Lecture Hours

Session 1

Type	Topic/Description	LEC Time	LAB Time	HW Time	Point Value	Due
LEC 1A	Introduction to Networking	2	0	0	0	
LEC 1B	Network Standards	2	0	0	0	
IC EX 1A	Assignment 1	1	0	0	25	Session 1
HW 1A	Panko Chapters 1 - 2	0	0	10	0	
HW 1B	Weekly Thesis Assignment 1	0	0	10	50	Session 3
HW 1C	Research Paper	0	0	10	110	Session 8
HW 1D	Research Presentation	0	0	3	50	Session 9 -10
HW 1E	Curricular Practical Training Activity	0	0	10	80	Session 8
IC EX 1B	In-class Participation	0	0	0	20	Session 1
Total Session 1		5	0	43	335	

Session 2

Type	Topic/Description	LEC Time	Lab Time	HW Time	Point Value	Due
LEC 2A	Physical Layer Propagation	2	0	0	0	
LEC 2B	Ethernet LANs	2	0	0	0	
IC EX 2A	Assignment 2	1	0	0	25	Session 2
HW 2A	Panko Chapters 3 - 4	0	0	9	0	
IC EX 2B	In-class Participation	0	0	0	20	Session 2
Total Session 2		5	0	9	45	

Session 3

Type	Topic/Description	LEC Time	LAB Time	HW Time	Point Value	Due
LEC 3A	Wireless LANs	4	0	0	0	
IC EX 3A	Assignment 3	1	0	0	25	Session 3
HW 3A	Panko Chapter 5	0	0	5	0	
HW 3B	Weekly Thesis Assignment 2	0	0	10	50	Session 5
IC EX 3B	In-class Participation	0	0	0	20	Session 3
Total Session 3		5	0	15	95	

Session 4

Type	Topic/Description	LEC Time	LAB Time	HW Time	Point Value	Due
LEC 4A	Telecommunications	4	0	0	0	
IC EX 4A	Assignment 4	1	0	0	25	Session 4
HW 4A	Panko Chapter 6	0	0	4	0	
IC EX 4B	In-class Participation	0	0	0	20	Session 4
Total Session 4		5	0	4	45	

Session 5

Type	Topic/Description	LEC Time	LAB Time	HW Time	Point Value	Due
LEC 5A	Wide Area Networks	3	0	0	0	
IC EX 5A	Assignment 5	1	0	0	25	Session 5
HW 5A	Panko Chapter 7	0	0	4	0	
HW 5B	Weekly Thesis Assignment 3	0	0	10	50	Session 7
EXAM 5	Prepare for Mid-Term	1	0	0	0	
IC EX 5B	In-class Participation	0	0	0	20	Session 5
Total Session 5		5	0	14	95	

Session 6

Type	Topic/Description	LEC Time	LAB Time	HW Time	Point Value	Due
LEC 6A	TCP/IP Internetworking	3	0	0	0	
IC EX 6A	Assignment 6	1	0	0	25	Session 6
HW 6A	Panko Chapter 8	0	0	5	0	
EXAM 6A	Midterm	1	0	0	100	
IC EX 6B	In-class Participation	0	0	0	20	Session 6
Total Session 6		5	0	5	145	

Session 7

Type	Topic/Description	LEC Time	LAB Time	HW Time	Point Value	Due
LEC7A	Security	4	0	0	0	
IC EX 7A	Assignment 7	1	0	0	25	Session 7
HW 7A	Panko Chapter 9	0	0	5	0	
HW 7B	Weekly Thesis Assignment 4	0	0	10	50	Session 9
IC EX 7B	In-class Participation	0	0	0	20	Session 7
Total Session 7		5	0	15	95	

Session 8						
Type	**Topic/Description**	**LEC Time**	**LAB Time**	**HW Time**	**Point Value**	**Due**
LEC 8A	Network Management	2	0	0	0	
LEC 8B	Networked Applications	2	0	0	0	
IC EX 8A	Assignment 8	1	0	0	25	Session 8
IC EX 8B	Research Paper	0	0	0	0	Session 8
HW 8A	Panko Chapter 10-11, Module A	0	0	8	0	
HW 8B	Curricular Practical Training	0	0	10	80	Session 8
IC EX 8B	In-class Participation	0	0	0	20	Session 8
Total Session 8		5	0	8	45	
Session 9						
Type	**Topic/Description**	**LEC Time**	**LAB Time**	**HW Time**	**Point Value**	**Due**
LEC 9A	Presentations	4	0	0	0	
EXAM 9A	Prepare for Final	1	0	0	0	
Total Session 9		5	0	0	0	
Session 10						
Type	**Topic/Description**	**LEC Time**	**LAB Time**	**HW Time**	**Point Value**	**Due**
LEC 10A	Presentations	4	0	0	0	
EXAM 10A	Final Exam	1	0	0	100	
Total Session 10		5	0	0	100	

Course Hours Summary

Session	Topic	LEC Time	LAB Time	HW Time
1	Introduction to Networking & Standards	5	0	43
2	Physical Layer Propagation & Ethernet LANs	5	0	9
3	Wireless LANs	5	0	15
4	Telecommunications	5	0	4
5	Wide Area Networks	5	0	14
6	TCP/IP Internetworking	5	0	5
7	Security	5	0	15
8	Network Management & Applications	5	0	8
9	Presentations	5	0	0
10	Presentations – Final	5	0	0
Total		50	0	113

Table/Point Breakdown

Session	Assignment	Possible Points	Percent of Grade
1,3,5,7	Weekly Thesis Assignments 1- 4	200	20%
1	Research Paper	110	11%
1	Research Presentation	50	5%
1-8	Assignments 1- 8	200	20%
6	Mid-Term Exam	100	10%
10	Final Exam	100	10%
1-8	In-class Participation	160	16%
8	Curricular Practical Training Activities	80	8%
Total		1000	100%

Weekly Thesis Assignments

The primary purpose of the Weekly Thesis Assignments is to prepare each graduate student at Coleman University for the final Master's Thesis.

Each week, students will submit additional progress toward his or her chosen thesis topic. Progress toward the thesis will include a minimum of three (3) pages of new content toward the thesis and cite no fewer than three (3) scholarly sources.

Each weekly submission should include a highlighted section indicating the new content from the previous week. New content could either be completely new material, or revision to existing material based on feedback provided by your Thesis Mentor or Teaching Assistant.

At the end of Week 3, each student will provide an in-progress review submission to his or her Thesis Mentor via WebClass in the Thesis In Progress section. The Thesis Mentor will provide feedback regarding the framework and approach each student is taking and provide general guidance regarding completion. This in addition to the Weekly Thesis Assignment submission is graded by the course Teaching Assistant.

Your Grades for this Course

Your final grade for this course will be based on an assessment by the Instructor of your performance on a number of course activities, which may include objective tests, classroom exercises, laboratory demonstrations, project papers, or other types of activities. The chart below indicates in what activities you will engage, how many possible points can be earned for each activity, and the percentage of your final grade that will be accounted for by each activity.

Students in this course should be graded following Coleman University assessment practices and policies. A point system is used in the University to indicate student performance on various required activities or projects. For this course, it is recommended that points be distributed as follows:

Coleman University Grade Assignment Policy:

Percent	Letter Grade	Grade Points
94-100	A	4
90-93	A-	3.67
87-89	B+	3.33
84-86	B	3
80-83	B-	2.67
77-79	C+	2.33
74-76	C	2
70-73	C-	1.67
67-69	D+	1.33
64-66	D	1
60-63	D-	0.67
N/A	INC	0
N/A	W	0
60 or above	CR	0
59 or below	NC	0
N/A	I	0
N/A	W	0
N/A	AU	0
N/A	TR	0
N/A	WV	0

Legend	
CR = Credit	NC = No Credit
I = Incomplete	W = Course Withdrawal
AU = Audit	TR = Transfer Credit
WV = Waiver	

Academic Accommodation / Adjustment Policy:

In accordance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA), Coleman University offers accommodations to students with documented physical, psychological, and/or cognitive disabilities. Coleman University will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to offer equal educational opportunities to qualified disabled individuals.

To qualify for an academic accommodation under ADA, the student must provide adequate documentation of a disability. Students seeking academic accommodations should contact the campus ADA Coordinator at 858-966-3953 or via email at ada@coleman.edu. The ADA Coordinator will review the documentation provided and verify ADA coverage. Students covered under ADA must meet with the ADA Coordinator at the beginning of every term to determine the appropriate academic accommodations. Failing to meet with the ADA Coordinator at the beginning of every term may impact the availability of accommodations.

After the academic accommodations have been determined, the students' instructors will be notified by the ADA Coordinator. If any problems or concerns regarding the provision of accommodations occur, the student must inform the ADA Coordinator. If the student feels accommodation is not being made appropriately, the student may follow the published Student Grievance Procedures.