

Wk Chapter Chapter Title _____

- 8/19 **Part 1 - What is Communications?**
1 C&S P Preface
C&S 1 What is **Technology**? What is **Telecommunications**?

I will help you create teams for all projects and papers. For project: examine the MIS and telecommunications capabilities of an off-campus business or organization. What do they have/use now? Objective: 4-5 page case on present MIS/telecom. You will write this paper twice, the first time to describe, the second to recommend changes, including a risk assessment and disaster plan. See www.auburn.edu/~carr for requirements for papers.

In addition to the group work, **each member of the class** will write a telecommunications or data communications case, taken from a list of topics.

Please go to the United Devices home page (WWW.UD.COM) and sign your computer up to do cancer research when it is idle. Then go to the team page and join the team AUBURN-MIS. The points you make will apply both to you and the team. Our team is 206 out of 17,203 teams worldwide. Tell me in class next time the total number of members, machines, and your member name.

- 2 C&S 2 8/24 Where Did the **Telephone** Come From? How Does it Work?

All papers by teams and prepared in accordance with instructions in the lab manual, also on WWW.AUBURN.EDU/~carrhou; minimum of three references required per paper. All team members will contribute equally or **their names will be removed.**

- 3 C&S 3 9/02 What **Technologies and Media** do we use for voice and data communications
☞ **Everyone - Either get familiar with the outliner capability in your work processor or go onto the Internet and find such a capability. Outline Chapter 3 of text.**

Networld/Interop is usually in the *World Congress Center* in September. If you find it, let me know; it's an excuse to miss class.

- 9/7 **Part Two - Data Communications and Networks**
4 C&S 4 **Data Communications - The Basics**
Groups - Price 3 versions of a computer configuration, single-user workstation.
Test #1

- 5 C&S 5 9/14 Data Communications - **Conversion, Modulation & Multiplexing**
Stoll ***The Cuckoo's Egg* begins here**

You should have selected a company to interview by now. It should be off-campus and large enough to have data networks. If it's too small, your grade will suffer. You will describe the use of computers and networks in this paper. See WWW.AUBURN.EDU/~carrhou for further instructions

- 6 C&S 6 9/21 Networks by **Topology and Protocols**

- 7 C&S 7 9/30 Telecommunications **Architectural Models**
Test #2

- 8 C&S 7 10/5 Telecommunications Architectural Models (Cont)

☞ **First draft of 5-page case paper - Not Group = case per individual**

9 C&S 8 10/12 Networks by **Geography and Network Equipment**

Part III - Uses of Networks

10C&S 9 10/19 The Internet to the World; The Intranet to the Organization
C&S 10 Business Applications of Telecommunications

Test #3

Discussions of *The Cuckoo's Egg & Threats to Information System Security* (Lab Manual pg #85)

☞ **First report on business selected; what you saw. Must include netViz diagram.** ☞

Telecommunications Lab in Lowder #024.

Part IV - Legislation and Global Issues

11 C&S 11 10/26 How do **Legislation and Regulation** affect Telecommunications?

Part V - Managing Telecommunications

12 C&S 12 11/2 How do you Manage Telecommunications in Organizations?

Second report on business (recommendations and risk analysis)

☺ Telecommunications Lab (Network Operating Systems) Rm 013

☺ Go to <http://www.warriorsofthe.net/> and download and view the movie

13 C&S 13 11/9 How do you Manage Telecommunications Projects? SDLC for Telecommunications

Test #4

Part VI - The Need for Bandwidth

14 C&S 14 11/16 Bandwidth for the Home
Homework in end of chapter; bring worked problems to class.
C&S 15 Bandwidth for the Office

11/22 - 29 **Thanksgiving Holiday**

Part VII - The Future

16 C&S 16 12/1 Epilogue

☞ **Final version of 5-page case paper - Not Group = case per individual**

Final Exam (See note below)

Grading: .50*(Tests), 20*Final, .20*(papers & Project), .10*(class, etc.)
You may substitute for the final a passing grade on any MCSE or Network+ text taken during this quarter. Can not count for credit in any other class. . (Go to <http://www.ExamVouchers.com> discount on the exam, 600-page guide, and example questions. . Also www.getcertified4less.com. \$157 vs. \$207 from VUE directly.) **Unannounced quizzes will be given and count for grade.** Scantron portion of tests start out counting 50% of total test grade and drop 5% with each subsequent test

The ISBN for the "Network+ Certification FOR DUMMIES" book that I used to study for the Network+ Exam is: 0-7645-1621-3. I purchased it from Books-A-Million for \$35 and found it much better than the study-guide I downloaded from Cramsession.com for \$7.50. The book even provided a CD with a lot of practice test questions.

Texts: 📖 *Management of Telecommunications* by Houston H. Carr & Charles A. Snyder 2/e ISBN 0-07-248931-6
🎵 Supplement to Carr and Snyder **1-930208-68-5**
📀 *The Cuckoo's Egg* by Cliff Stoll 0-671-72688-9)
🎧 *Computer Technologies* - Smart Computing Part I
* Telecommunications Lab Manual - **1-930208-31-6** (Optional)
* **Data Communications for Executives** by Carr, ISBN 1-930208-18-9 (Second Edition) (Optional)

Special Accommodations for Students with Disabilities: Students who need special accommodations should make an appointment to discuss the Accommodations Memo with me during my office hours as soon as possible. If scheduled office hours conflict with classes, please arrange an alternate appointment time. If you do not have an Accommodations Memo but need special accommodations, contact The Program for Students with Disabilities, 1244 Haley Center, 334-844-5943 (Voice T/O).

Academic Honesty: ALL PORTIONS OF THE AUBURN UNIVERSITY HONESTY CODE (TITLE XII) FOUND IN THE TIGER CUB WILL APPLY TO THIS CLASS.

Items to watch for in preparation of papers, in addition to instructions in Lab Manual.

1. **Spell out** numbers below 21, e.g., twelve men used 2-channel radios.
2. **Space** between a () and the words near it, e.g., lines (such as) are
3. **Break long paragraphs** into small paragraphs.
4. **Place section headings** to break up papers, e.g., Introduction, Background, Summary
5. Use **quotes** (") to quote someone, not to make up words.
6. Use the word **also** sparingly.
7. Write with **formal wording**, don't use friendly language.
8. Start the project paper with an introduction of the organization interviewed, then go into the existence of IS and IT.
9. Acknowledge the person interviewed as a footnote to the Title. Reference Internet URLs like articles.
10. Again, do not use a title page by itself. Put the title on the top of the first text page and put your name and the date in the footer, which will appear on all pages, with the page number.

Topics for individual telecommunications cases.

1. **Wireless satellite-based networks** for Internet access including DirecPC
2. **Wireless security** on IEEE 802.11 systems
3. **Wireless security** on non-802.11 systems
4. **Telecommuting**, the reality, including state laws.
5. **Military uses** of telecommunications
6. A new description of **ATM machines** and their effects.
7. **Teleconferencing**, the reality
8. **Telecommuting**, the reality
9. Present state of the use of telecommunications for **accommodation**
10. The state of art in **intranets**
11. A comparison of companies and how they **compete using telecommunications**
12. A discussion of the **Telecommunications Act of 1996** and **newest acts** affecting telecommunications
13. A comparison of **privacy and security** in four countries
14. A new look at **broadband technologies**
15. Internet usage and **government restrictions**; PATRIOT Acts, Magic Lantern, Carnivore, COPPA
16. Internet usage and **government restrictions**; PATRIOT Act, Magic Lantern, Carnivore, COPPA
17. **Wireless Applications Protocol (WAP)**, cell phones, viruses.
18. **Optical Switching**
19. **Service Level Agreements and CIR**
20. **Cell phones** SIMs and upgrades
21. **Quality and QoS**

Name: _____ Preferred Name: _____ **MNGT 7020/26**

My Degree is: MBA/ _____ MMIS Other: _____

My undergraduate degree is: _____

Graduation date (Mo/Da/year): _____

Preferred E-mail/Internet ID: _____@AUBURN.EDU or _____

My other classes this quarter are: _____

My wired telephone service is: Premium flat-rate telephone service Area Calling (measured) Service No wired service

My long distance provider is: AT&T MCI Sprint None Other: _____

I have the following technology Portable phone Cellular Phone CD Player VCR Home Theater DVD/Laser

I own a PC of the following brand: _____ This PC has _____ Mbyte RAM, _____ Mbyte Hard drive

Dialup Modem DSL Cable Modem DVD-R CD-R Dolby Digital LCD Monitor CRT Monitor

I am an active gamer: Yes on the follow system (e.g., GameCube, X-Box, etc). _____

I have a home page. Its URL is: _____

The following are five attributes or achievements I have accomplished:

- A. _____
- B. _____
- C. _____
- D. _____
- E. _____

Three things I would like to do for money upon graduation:

- A. _____
- B. _____
- C. _____