

Wagner College
CS 353 – COMPUTER NETWORKS

TEXTBOOK: *Computer Networks and Internets*,
By Douglas Comer, Third Edition, Prentice Hall

INSTRUCTOR: Dr. Adrian Ionescu <http://www.wagner.edu/faculty/users/ionescu/>

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OFFICE: Room 117, Megerle Science Hall, x3245

OFFICE HOURS: MWF 09:00 – 10:20 AM
TTH 04.00 – 6:00 PM (by appointment only)

COURSE WEB PAGE: <http://ionescu.pageout.net/>

COURSE OBJECTIVES: This course will examine the issues facing Local and Wide Area Network Designers and Administrators. While some of the technologies will be explored, most time will be spent investigating the techniques necessary to make them work. Students will become familiar with real networks exhibiting the decisions and problems inherent in modern LANs and WANs.

OUTLINE:

- Chapter 1 – Introduction
- Chapter 2 – Motivation and Tools
- Chapter 4 – Transmission Media
- Chapter 5 – Local Asynchronous Communication
- Chapter 6 – Long Distance Communications
- Chapter 7 – Packets, Frames, and Error Detection
- Chapter 8 – LAN Technologies and Network Topology
- Chapter 9 – Hardware Addressing and Frame Type Identification
- Chapter 10 – LAN Wiring, Physical Topology, and Interface Hardware
- Chapter 11 – Extend. LANs: Fiber Modems, Repeaters, Bridges, Switches
- Chapter 12 – Long Distance Digital Connection Technologies
- Chapter 13 – WAN Technologies and Routing
- Chapter 15 – Network Ownership, Service Paradigm, and Performance
- Chapter 16 – Protocols and Layering
- Chapter 17 – Internetworking: Concepts, Architecture, and Protocols
- Chapter 18 – IP: Internet Protocol Addresses
- Chapter 19 – Binding Protocol Addresses (ARP)
- Chapter 20 – IP Datagrams and Datagrams Forwarding
- Chapter 21 – IP Encapsulation, Fragmentation, and Reassembly

GRADING POLICY: You are responsible for all material covered in class, as well as that in the text. Homework will be collected and graded weekly.

- MIDTERM (30%)
- FINAL EXAMINATION (40%)
- HOMEWORK/PROJECTS/CLASS PARTICIPATION (30%)

GRADING SCALE: Letter grades will be determined by the following scale, where 100 corresponds to the highest point total earned by any student in the class:

Average	Grade
93 - 100	A
90 - 92	A-
87 - 89	B+
83 - 86	B
80 - 82	B-
77 - 79	C+
73 - 76	C
70 - 72	C-
67 - 69	D+
60 - 66	D
< 60	F

COURSE POLICIES:

- There will be no make-up examinations. *A student who is unable to attend a major examination due to illness or other emergency is required to contact his instructor within 24 hours of the exam time.* If an exam is missed due to an emergency, the final will be counted twice; once as a final, and once in place of the missed exam. Late homework will not be graded.
- Any preceding policies may be waived at my discretion.

For inclement weather updates or other announcements please check your e-mail and the following page regularly: <http://www.wagner.edu/faculty/users/ionescu/notes.htm>.

If you have a disability for which you may be requesting an accommodation, you are encouraged to contact both your instructor and Dina Assante in the Academic Advisement Center, 390-3278 as early as possible in the term.