CSci 530

Data Communications and Networks
California State University San Bernardino
Fall 2007

Lecture: MW 12 N – 1:15 PM, Lab: M 1:30 PM – 3:20 PM
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CSci 530 serves as an introduction to the very large field of data communications and communications networks. A balance will be attempted between four approaches: fundamental theory, hardware and physical components, protocols and applications, and network software design and implementation.

Tentative Schedule:
Week  Topic
1     The Network Is the Computer; Mathematics refresher
2     Quantitative Issues: An Introduction to Information Theory, Queueing Theory, and the Formal Basis of Networks
3     The Physical Layer: Getting from Here to There
4     LAN and WAN: The MAC Layer and MACs Cousins
5     The Internet Protocol Suite and the LAN
6     The Internet Protocol Suite and the WAN
7     Routing, Switching, and Performance Measurement
8     Distributed Systems
9     Security
10    Wireless Networks

Final Examination: Wednesday, Dec. 5, 2007 12:00 N
Grading: One third of the grade will be determined by each of the following three components: Midterm,
Final, and Laboratory. Details will be discussed in class. The University prohibition on plagiarism will be enforced.