

CSCI450: Introduction to Computer Networks

Course Coordinator

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Other instructors for course

None

Textbooks and other required materials

Computer Networking: A Top Down Approach
By James F. Kurose and Keith W. Ross, 4th edition

Major Topics

1. Network Elements
2. Packet and Message Switching
3. Performance Metrics
4. Protocol Layers
5. Network Applications
6. Web: HTTP, FTP, E-mail, SMTP
7. DNS, P2P Applications, Socket Programming
8. Transport Layer Protocols and Flow Control
9. Network Layer, Internet Protocol
10. Routing Algorithms
11. Broadcasting, Multicasting, Link Layer
12. Error detection/correction, Ethernet
13. Multiple access protocols, CSMA/CD
14. Wireless and Mobile Networks
15. Network Security, Network Management