

Midterm 2 Study Guide

Suggestions on how to study: read again the course Lectures & Notes carefully and similar material in the text. Review your own homework and make sure you understand the problems and mistakes you made. Scan the course material to see what questions (requiring say 15 minutes each) you might ask on a midterm if you were asked to create one. Midterm 2 will primarily cover material since the first Midterm, which is Lectures 4C, 5A, 5B, 6A (pages 1-13), and Prob-Que-Notes (pages 1-15).

- Wireless LANs basic transmission / reception, hidden terminal, exposed terminal, MACA and CSMA/CA protocols.
- Network and Transport Layer protocols, IP addresses Class Structure, subnetting, CIDR, supernetting, IP protocol, UDP, TCP, ARP, RARP.
- Routing Algorithms, Shortest path algorithms, Dijkstra, Bellman Ford Moore, Distributed Bellman Ford Moore, Forwarding Decisions, Routing Tables, RIP, OSPF, BGP.
- TCP protocol, connection management.
- Basic Probability Theory; focus on discrete CDFs and Density Functions and related issues. You will not have any calculus based problems or complex moment derivation proofs.