Syllabus Computer Networks

CompSci 520

Instructor: Rafat Elsharef

Office: EMS 962

Phone: (414)-229-5375

E-Mail: elsharef@uwm.edu (The best way to contact me) Office Hours: TBA

Prerequisite: Jr. St; CompSci 315 or CompSci 458/ElecEng458, or ElecEng. 367. Textbook: Data and Computer Communications, 10th Ed., William Stallings, Prentice Hall

OUTLINE

Please note: I may change topics as needed. The course covers architecture, protocols, and technology (hardware and software) of both wired and wireless computer networks.

Topics covered: (specific chapters will be announced in class ahead of time)

- Introduction: OSI & TCP/IP Models
- Physical Layer
- Data Communications
- Transmission Media
- Data Link Layer
- Wide Area Networks
- Local Area Networks
- Network Layer & Routing Protocols
- Cellular Architecture and Mobile Routing Protocol
- Transport Layer: TCP/IP Protocol Stack
- Congestion Control Protocol
- Application Layer
Grading Policy for Undergraduate Students

- Homework: 20% (Will be assigned weekly)
- Exam I: 25% (June 13th)
- Exam II: 25% (June 27th)
- Final Exam: 30% (July 7th)

Grading Policy for Graduate Students

- Homework: 20%
- Exam I: 20%
- Exam II: 20%
- Final Exam: 20%
- Final Project 20%