

EEL4598/5718: Computer Communications

Fall 2017

Instructor: Professor Yuguang “Michael” Fang

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Office Hours: 9:30-10:30, TR or by appointment

Class-time: T: 10th Period (5:10-6:00pm), Th: 10-11 periods (5:10-7:05pm)

TA: Mr. Yawei Pang, NEB 444

Classroom: 330 Larsen Hall

Textbook: *Communications Networks: Fundamental Concepts and Key Architectures*, 2nd Edition, Leon-Garcia and Widjaja, McGraw Hill, 2003.

References: 1. *Computer Networks* by Andrew Tanenbaum, 3rd edition, Prentice-Hall, 1996. 2. *Data & Computer Communications*, 6th Edition, by William Stallings, Prentice-Hall, 2000.

Syllabus:

- 1 . Overview of communications networks and services
- 2 . Layering architectures
- 3 . Physical layer fundamentals: data transmission, coding/decoding, and modulation/demodulation
- 4 . Multiplexing and Switching
- 5 . Data link control: error control and ARQ protocols
- 6 . Multiple access control (MAC) protocols
- 7 . Routing algorithms and protocols
- 8 . Transport protocols
- 9 . Congestion controls
- 10 . LAN Technologies

Grading: Grades are based 10% on homeworks, 15% on project, 35% on midterm, 40% on final. Overall average > 90% is guaranteed an *A*, > 80% is guaranteed a *B*, etc. Statistical curving will be used for both graduate and undergraduate students separately. No late homework is accepted.

Honor code: All students admitted to the University of Florida have signed a statement of academic honesty committing themselves to be honest in all academic work and understanding that failure to comply with this commitment will result in disciplinary action. This statement is a reminder to uphold your obligation as a student at the University of Florida and to be honest in all work submitted and exams taken in this class and all others.