

# EEL4598: Computer Communications

*Fall 2011*

Instructor: Professor Yuguang “Michael” Fang

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Office Hours: 10:30am-12:00pm, MW or by appointment

Class-time: 3th Period (9:35-10:25am)

Classroom: LAR 0328

**Basic Information:** You may have used Internet services every day, but do you know how your messages or web requests are delivered or handled? This course will teach you the fundamentals behind the scene from the communications between two directly connected computers to the networks among multiple computers far apart. It will provide you the basic required information for a telecommunications career.

**Textbook:** *Data and Computer Communications*, 9th Edition, Williams Stallings, Prentice-Hall, 2011.

**Reference:** *Computer Networks* by Andrew Tanenbaum, 3rd or 4th edition, Prentice-Hall.

## Syllabus:

1. Overview of data communications
2. Physical layer fundamentals: Data transmissions, Transmission media, Signal encoding, Digital communications
3. Data link control: error control and ARQ protocols
4. Multiplexing and Switching
5. Routing protocols
- 6 Transport protocols
7. Congestion control
8. LAN Technologies

**Grading:** Grades are based on 10% for homework, 25% for each for three exams, and 15% for project. We will have minus grades (<http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html>). Overall average > 90% is guaranteed an A, > 80% is guaranteed a B, etc. No late homework is accepted.

**Honor code:** All students must follow the honor code of the University of Florida. Particularly, cheating in homework and exams will not be tolerated.