

Textbook

- Required textbook: [Mobile Communications by Jochen Schiller, Addison-Wesley](#)
- Recommended references:
 - [Ad Hoc Networking by Charles E. Perkins, Addison Wesley](#)
 - [Wireless Communications: Principles and Practice by Theodore S. Rappaport, Prentice Hall](#)
 - [Computer Networking: A Top-Down Approach Featuring the Internet](#)
 - [802.11 Wireless Networks: The Definitive Guide by Matthew Gast](#)

The above books have been reserved at UT library for you to check out for up to 2 hours

Course Material

- Physical layer (signal propagation, multiplexing, modulation)
- Medium access control, cellular networks, WiFi, HIPERLAN, Bluetooth
- Mobile IP
- Routing in ad hoc networks
- Wireless transport protocols
- Wireless applications
- Wireless network security

Prerequisites

- CS 312 and CS 429 are required.
- CS 356 (Computer Networks) are highly recommended, but not required.

Note to non-CS majors:

Non-CS majors can request to take CS courses in the CS Undergraduate Advising Office. You will need to fill out a very short form at the front counter. The prerequisite include enrolled or completed EE 322C (Data Structures). Students with this background are registered if there is space available when they make the request.

Grading

- **Class participation (10%) (include in-class quizzes):** Everyone is expected to attend all the

classes and contribute to classroom discussion.

- **Homework (40%):** We will have several homework assignments: some are programming assignments and others are paper-pencil homework. Programming assignment should be emailed to TA before class, and paper-pencil homework should be handed in at the beginning of the class.
- **Exam I (20%) and Exam II (30%):** We will have two exams
- **We will strictly enforce UTCS code of conduct.**