

EENG 5820 - Wireless Communications

Fall 2019

Course Description:

This course discusses the fundamentals of wireless communications.

Learning Objectives:

The goals of this course are to expose the students to basic knowledge of wireless communication systems, ranging from wireless channels, diversity techniques and capacity limits.

Lectures:

Mo, We, 17:30 - 18:50, NTDP B217.

Instructor:

Hua Sun. Office: NTDP B225. Email: Hua.Sun@unt.edu. Phone: 940-369-5167.

Office Hours: Mo, We, 16:00 - 17:00, NTDP B225.

TA: Lisha Yao. Email: LishaYao@my.unt.edu. Office Hours: Tu, 10:00 - 11:00 am, NTDP B241.

Textbook:

David Tse and Pramod Viswanath, *Fundamentals of Wireless Communication*, ISBN 978-0521845274, Cambridge University Press (2015).

Lecture notes and other supplementary materials are posted online.

Prerequisites:

EENG 5810 Digital Communications or equivalent.

Grading Policy:

Homework: 10%

Midterm Exam: 30% (in class)

Final Exam: 30% (17:30 p.m. - 18:50 p.m., Monday, December 9, NTDP B217)

Project (Group Presentation and Report): 30%

General Policies:

- **Academic Integrity Standards and Consequences.** According to UNT Policy 06.003, Student Academic Integrity, academic dishonesty occurs when students engage in behaviors including, but not limited to cheating, fabrication, facilitating academic dishonesty, forgery, plagiarism, and sabotage. A finding of academic dishonesty may result in a range of academic penalties or sanctions ranging from admonition to expulsion from the University.

- **ADA Accommodation Statement.** UNT makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide a student with an accommodation letter to be delivered to faculty to begin a private discussion regarding one's specific

course needs. Students may request accommodations at any time, however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet with each faculty member prior to implementation in each class. For additional information see the ODA website at disability.unt.edu.

• **Emergency Notification & Procedures.** UNT uses a system called Eagle Alert to quickly notify students with critical information in the event of an emergency (i.e., severe weather, campus closing, and health and public safety emergencies like chemical spills, fires, or violence). In the event of a university closure, please refer to Blackboard for contingency plans for covering course materials.