EECS 622 - Microwave and Radio Transmission Systems (Fall '08)
MWF 11:00 - 11:50
Spahr Engineering Classroom - Eaton Hall

Instructor: Prof. Jim Stiles
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Office Hours: 9:00 to 10:50 MWF, or by appointment.

Catalog Listing: EECS 622 (3)  Introduction to radio transmission systems. Topics include radio transmitter and receiver design, radiowave propagation phenomenology, antenna performance and basic design, and signal detection in the presence of noise. Students will design radio systems to meet specified performance measure.

Prerequisite: EECS 420

Course Objective: To introduce the fundamentals of radio transmission systems, including wireless communication devices and radar. Topics include transmitter and receiver system analysis and design, antenna performance and specification, fundamentals of propagation and scattering, and detection in the presence of noise. Upon completion of this course, students should be capable of designing, at a systems level, a radio transmission system that will meet a given detection specification.


**Grading:** The following factors will be used to arrive at the final course grade.

- Homework 10%
- Projects 20%
- Exam I 20%
- Exam II 20%
- Attendance 5%
- Final Exam 25%

**Grading Scale:** Grades will be assigned to the following scale:

- A 90 - 100%
- B 80 - 89%
- C 70 - 79%
- D 60 - 69%
- F < 60%

These are guaranteed maximum scales and may be revised downward at the instructor’s discretion.

**Homework:** Homework will be collected at the beginning of class on a roughly weekly basis. Collaboration with classmates is permitted. **Copying is not permitted.**

**Exams:** No make-ups for missed exams will be given. If you have attended 75% of the lectures and have 75% on the homework, and you have a legitimate excuse for missing an exam (e.g., significant illness, family emergency), the first missed exam will be scored by taking 90% of the average of the other exams. Subsequent missed exams will be scored as zero. Note this policy does not mean that you can “drop” one exam!

**Ethics Policy:** Academic misconduct will not be tolerated. It will result in a failing grade and may result in further disciplinary action by the University. For details see the Academic Misconduct section of the Timetable.