EE 4610    Analog Communications

Instructor: Dr. Mort Naraghi-Pour, 321 EE Building, Tel: 8-5551

Office Hours: Mondays and Wednesdays, 1:30-4:00 p.m.

Course outline:

1. Introduction.

2. Fourier analysis: Fourier series, Fourier transform, properties of the Fourier transform, time and frequency domains, sampling theorem (Appendix and supplemental material).

3. Linear systems, filtering, Correlation and power spectral density (Chapter 1).

4. Amplitude modulation techniques, frequency and phase modulation, (Chapter 2).

5. Applications: AM radio, FM radio, television (Chapter 2 and supplements).

6. Pulse code modulation (Chapter 3).

Background: EE-3120 or equivalent and Math 3355 or equivalent are the prerequisites. Pre-requisites will not be waived.


Grading Policy:

Homeworks 15%
Exam I 25%
Exam II 25%
Final Exam 35%

Letter grading will be based on a curve with the average being a C.

Homeworks:

There will be approximately one homework per week. The solutions will be given on the day the homework is due. Therefore, no late homeworks will be accepted. Homeworks have to be worked out by each person individually and should not be copied from another source. You can obtain hints and suggestions from me or the TA as well as discuss the problems with each other, but you must write the solutions individually. Copying the homework from any other source is considered plagiarism.