

Western Washington University
Department of Engineering Technology
ETec 405 - Communications Circuits – Fall 2005

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Text: *Modern Electronic Communication (any late edition)* by Miller

This course will cover the fundamental issues of RF circuits including amplifiers, oscillators, modulation techniques, and transmitter and receiver circuits. Signal spectra and noise will be studied, and you will learn a lot. Additional topics will be covered in ETec 455.

The ongoing explosion of wireless services has created many opportunities for engineers and technicians who have RF savvy. I expect you to occasionally browse some of the several trade journals that are of interest to RF engineers including *RF Design*, *Broadcast Engineering*, *Microwaves and RF*, and *Applied Microwave and Wireless*. These publications and others of interest will be available in the lab.

You will be provided with laboratory problems that complement the theoretical aspects of the course, and you are encouraged to propose RF projects that are of interest to you.

If you develop a strong interest in RF, I will work with you to develop intern or employment opportunities in the field.

A brief review of AC fundamentals is probably a good idea. Then, chapters one through seven in the text will be covered. Additional material may be introduced as time and opportunity allows.

I am looking forward to working with you this quarter. It should be an exciting and productive time.

Please visit me often outside of class, especially if you are experiencing any difficulties with the course material.