

# ECE 404L

## RADIO FREQUENCY ELECTRONICS LAB

FALL 2011

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<b>Week of</b>	<b>Topic</b>
Aug. 29	No labs meet this week
Sept. 5	Lab I: Introduction to the Oscilloscope, Function Generator and Digital Multimeter
Sept. 12	Lab II: AM/FM Radio - Audio Amplifier
Sept. 19	Lab II: AM/FM Radio - Audio Amplifier (continued)
Sept. 26	Lab III: AM/FM Radio - AM Radio
Oct. 3	Lab III: AM/FM Radio - AM Radio (continued)
Oct. 10	Lab IV: AM/FM Radio - FM Radio
Oct. 17	Lab IV: AM/FM Radio - FM Radio (continued)
Oct. 24	Lab V: RF Test Equipment and Applications
Oct. 31	Lab VI: Measurement of Passive Elements Using a Network Analyzer
Nov. 7	Lab VII: Introduction to Ansoft Designer
Nov. 14	Lab VIII: Filters and Impedance Matching
Nov. 21	No labs meet this week
Nov. 28	Lab VIII: Filters and Impedance Matching (continued) (Lab course evaluation)
Dec. 5	No labs meet this week

# Electrical Safety Considerations for ECE 404 Lab

G. M. Wierzba

Safety glasses are required. Minimally prescription glasses are ok but full wrap around glasses are preferred. If you fail to wear safety glasses or come to lab without a pair of safety glasses, you will be asked to leave. You can purchase another pair at the bookstore and return to lab but a penalty for tardiness\* will apply.

The equipment used in ECE 404 Lab is primarily low voltage. There is no danger associated with this equipment when used as instructed. Care should always be taken not to touch the prongs of an electrical plug when inserting or removing it from an electrical outlet.

In some lab experiments we are going to use polarized electrolytic capacitors. These elements must at all times have a positive voltage across their terminals with respect to an indicated polarity. Failure to do so can result in the component overheating which could cause severe burns. In such experiments warning boxes are placed in the experimental procedure and your lab instructor will be required to check your wiring before you proceed.

We will also be soldering in this lab. This and the danger from capacitors is why we need safety glasses at all times.

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\*Your lab report grade will be multiplied by 0.9 if you are tardy from 1 to 10 min., by 0.85 if you are tardy from 11 to 30 min. *If you are late more than 30 min you will not be allow to enter lab.*