LECTURES: MWF 10:00-11:10 pm
Room: Strand Agriculture Hall 109

INSTRUCTOR: Gabor C. Temes, Professor
3091 Kelley Eng. Ctr.
temes@eecs.oregonstate.edu

OFFICE HOUR: MF 14:00-15:00 pm

CLASS WEBSITE http://classes.engr.oregonstate.edu/eecs/fall2011/ece580/

PREREQUISITE: Graduate standing in ECE

TEXT: Lecture notes will be posted on the Web. Parts of the following books will be used:


(Note: It is not necessary to acquire these books. Most are out of print. Lecture notes will be sent to cover the material.)

MATERIAL TO BE COVERED (if time permits):

- Networks components: R, L, C elements; ideal/perfect/real transformers; op-amps; gyrators; independent/dependent sources.
- Network analysis: the incidence matrix; branch relations; nodal analysis; two-port parameter; multiport networks; multiport parameters; scattering relations and parameters; transfer functions; sensitivity analysis.
- Network synthesis: approximation theory for continuous-time and sampled-data filters; the design of passive, active R-C, Gm-C and switched-capacitor filters.

MIDTERM EXAMINATION: Monday, Oct. 24, 10 am
FINAL EXAMINATION: Thursday, Dec. 8, 6 pm