LECTURES: MWF 10:00-11:10 am  
Room: Cordley Hall 2113  

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

OFFICE HOUR: MW 14:00-15:00 pm  
Spencer Leuenberger  
leuenbes@eecs.oregonstate.edu  

TA: Chao Yang  
yangcha@eecs.oregonstate.edu  

CLASS WEBSITE http://classes.engr.oregonstate.edu/eecs/fall2014/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 posted on the class web page which 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. 27, 10 – 11:10 am  
FINAL EXAMINATION: Wednesday, Dec. 10, 2 – 3:50 pm