SPRING 2010 : ELEC 3800 Sec. 002 : Random Signals and Systems
T Th 11:00 AM – 12:15 PM Broun 306

Instructor: Prof. J.K. Tugnait 313 Broun, 4-1846, tugnajk@eng.auburn.edu
Office Hours: MWF 10:00 – 11:30 AM; 2:00 – 3:00 PM;
e-mail for appointment at other times.

Textbook: G. R. Cooper and C. D. McGillem, *Probabilistic Methods Of Signal And System Analysis*, 3rd Ed., Oxford Univ. Press, 1999.

Ref.: A.H. Haddad, *Probabilistic Systems and Random Signals.* Pearson Prentice-Hall, 2006.

Web Site: http://www.eng.auburn.edu/users/tugnajk/
All posted notes are in "microsoft windows journal file" format.

Grading Basis:

Quizzes :	20%	
Test I :	25%	(**Feb. 23, 2010**)
Test II :	25%	(**April 20, 2010**)
Final :	30%	(**May 5, 2010**, Wed. 12:00 noon)

Attendance Policy: *Class attendance and participation is required. Unexcused absences from more than 3 class sessions will receive an F in the course.* For an absence to be excused, the student must present an official excuse obtained from the Engineering Student Services Office in 104 Ramsay no later than 1 week after the absence. For more information, see the Academic regulations in the Tiger Cub.
Homework: will be assigned periodically, but will not be collected. Solutions to the homework problems will be discussed in class.
Quiz Policy: Typically a quiz will be on material covered in the most recent homework assignment. There may be unannounced (pop) quizzes. The lowest quiz grade will be dropped from your average. **No "make-up" quizes will be given for any absences.**

TEXT COVERAGE

CHAPTER	SECTIONS	# of classes
1	1-1 – 1-10	5
2	2-1 – 2-9	5
3	3-1 – 3-4	3
5,6	5-1 – 5-5, 6-1,2,3,5	4
4	4-1 – 4-5	4
7	7-1,2,3,5,6,7	3
8	8-1,2,3,4,7,8	3

ELEC 3800. Random Signals and Systems (3). (3) Lec. 3. Pr., ELEC 2120. Analysis of random signals and noise, system reliability, responses of linear systems to random inputs, optimal filter design.