EE 341: Discrete Time Linear Systems Spring 2013 Department of Electrical Engineering, University of Washington

Course Goals:

We will continue our study of linear systems by focusing on more modern and widely-applied discrete time signals, systems, transforms. We will also use computer simulation to illustrate better both discrete-time domain and frequency domain signal processing operations. Our frequency domain characterizations will include discrete-time (DT) versions of the Fourier series (for exactly periodic DT signals), the Fourier transform (for aperiodic DT signals), and the *z*-transform (for non-steady state DT signals – like the Laplace transform, but for DT signals). Part of the responsibility of this course is to continue learning MATLABTM.

Instructor:	Tai-Chang Chen	tcchen[at]uw.edu
Office Hours:	Wednesdays 10:30 – 11:30am & Friday 8:30 – 9:20am	
Webpage:	http://faculty.washington.edu/tcchen/EE341Sp/	
	Make sure to check the class web frequently for class announcements, and reading assignments. Exam dates, holidays, The solution to the problem sets will be posted after collecting HWs as well.	
Lectures:	MTuWF 9:30 – 10:20am at EEB 125	
Textbook: Signals & Systems,	2nd edition, Oppenhein	& Willsky, Prentice Hall
	Lab Handouts: Print from the class webpage	
Grading:	<u>Segment</u>	Weighting
	Homeworks Laboratory Reports Midterm #1 Midterm #2 Final Exam	 18% (the lowest will be dropped) 20% (4 total) 18% 18% 26% Total: 100%
Homeworks:	There will be weekly homework assignments. Be prepared since some of the assignments may require a significant time commitment. Homeworks will be handed out each Friday and collected at the beginning of the class the following Friday. Unless previously discussed, no late homework will be accepted. You are encouraged to discuss the problems with other students but the final work that you hand in should represent your own understanding of the solution. You will have the option of dropping the one with the lowest grade.	
Exams:	There will be two in-class midterms and a final exam. No make-up exam will be given. Failure to attend an exam or to make prior arrangements will result in a zero. All exams are open notes and book. No turned-on	

electronic devices (calculators, laptops, cell phones, beepers, etc.) are allowed for
exams.Laboratory:Due: In your Lab session. The hard copy report is to be turned in to your

TA just at the beginning of the Lab session. In addition, please submit .m MATLAB files electronically before the starting time of your Lab session.

Academic Integrity

If you cheat, you cheat yourself of the opportunity to learn the material, and you cheat your classmates — all of your classmates — out of grades they have earned. If you let someone else copy your work, you are allowing them to devalue your grade and that of your fellow students. Cheating is a bad way to embark on a career in engineering. Cheaters make bad engineers, and you should be a good one. You can help by not tolerating cheating by your fellow students. The TAs and I will monitor for cheating and I will resolve all cheating cases in accordance with College of Engineering and University policy. Please help avoid this by avoiding even the appearance of possible cheating. Cheating can result in failure of the course and/or eventual expulsion from the University.