ECE 351 Signals and Systems

Fall 2016 Course Syllabus

Instructor: Yadong Wang, Ph.D.
Office: EB 3067
Office Hours: M / W 10:30-12:00 PM
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Class Hours: M / W 4:30 – 5:45 PM

Description: This course introduces the analysis of continuous and discrete signals and systems, including convolution, Fourier analysis, filtering, sampling, Laplace transform and z-transform.

Prerequisites: ECE 211 with a grade of C or better.

Location: Engineering Building 1150

Textbook: *Signals and Systems: A MATLAB Integrated Approach.* Oktay Alkin, CRC Press 2014

Homework: Homework will be assigned regularly. Late homework will be deducted up To 50%.

Quizzes: There will be regular quizzes during the semester that will be based on the assigned homework problems and the examples discussed during class. All quizzes **are close book, close note**.

Projects: There will be a project assigned during the semester involving the use of computer simulations and MATLAB.

Exams: There will be two (2) exams during the semester and one comprehensive final exam at the end of the course. All exams are **open book, close note**.

Grade Distribution:		**Grading Scale:**	
Homework:	10%		
Quizzes	15%	100% - 90%	A
Exam #1	20%	89% - 80%	B
Exam #2	20%	79% - 70%	C
Project	10%	69% - 60%	D
Final Exam	25%		

Communication with Class: I will send email to the entire class list regarding slides, assignments, solutions to homework, etc. At the same time, I will post these materials on the "blackboard". I'm unable to send class related messages to any email accounts other than your SIUE account, so please get in the habit of checking your SIUE email and your blackboard, and please do not ask me to use alternative accounts.

Cheating: There will be NO TOLERANCE for cheating. Anyone caught cheating will AUTOMATICALLY FAIL the course and risks the possibility of being expelled from the university.

Course Topics:

- Signal representation and modeling
- Analyzing continuous-time and discrete-time systems in the time domain
- Fourier analysis for continuous-time and discrete-time systems
- Sampling and reconstruction
- Laplace transform and Z-transform
- Analysis and design of filters if time permits

Special Circumstances: If you have any special difficulties and circumstances that affect your performance in this class, please talk to me for proper advice and guidance. If you have a ***documented*** disability and an ID CARD from Disability Support Services, please talk to me no later than the first week of class.