EECS 452 Schedule (Winter 2014, EECS 1003)

Week	Day	Lectures, Labs	Items due, reminder
0	Fri 1/10	L1: Class introduction, C and DSP review	*Makeup class; 3-4:30pm*
1		**Lab 1: Introduction to the C5515 eZDSP Stick**	Prelabs due b/f lab
	Mon 1/13	L2: DSP review, filters, DDS	
	Wed 1/15	L3: Number representation; fixed point arithmetic	HW1 due; PPI due
2		**Lab 2: Basic DSP using the C5515 eZDSP Stick**	
	Mon 1/20	No lecture (MLK day)	
	Wed 1/22	L4: Gate-level arithmetic; *project pitch*	HW2 due
	Fri 1/24	L5: Logic, FPGA overview, the DE2-70 board	*Additional class; 3-4:30pm*
3		**Lab 3: Introduction to the DE2-70 FPGA board**	
	Mon 1/27	L6: Intro to ADC, rounding and quantization	*Group formation 6:30pm; 1003*
	Wed 1/29	L7: DAC, oversampling and equalization, digital filter design	HW3 due
4		**Lab 4: DSP on the DE2-70 FPGA board**	
	Mon 2/3	L8: FIR and IIR filter design, roundoff and overflow	
	Wed 2/5	L9: Filter design continued	
	Fri 2/7	*Project proposal due at 5pm*	by email
5		**Lab 5: IIR filters**	
	Mon 2/10	Project proposal presentations 10:30-12	
	Wed 2/12	Project proposal presentations 10:30-12	HW4 due
	Fri 2/14	Project proposal presentations 5-7pm	Room 1005
6		**Lab 6: Interrupts, FFT and graphics**	
	Mon 2/17	L10: DFT and FFT, spectral leakage	
	Wed 2/19	L11: More on DFT, windowing	HW5 due; *parts order due*
7		**Optional Lab 7: SPI, I2S or video processing**	
	Mon 2/24	L12: Midterm review	
	Wed 2/26	No lecture (midterm study); Midterm 5-7pm in DOW 1013	Backup time Friday 5-7pm
8		**No classes; winter break**	
9	Mon 3/10	L13: Guest lecture on CoE Center for Entrepreneurship	
	Wed 3/12	L14: Review of probability, random signals and properties	
10	Mon 3/17	Guest lecture on wavelet by Prof. Scott	
	Wed 3/19	No lecture; *Milestone 1 meetings*	4419 EECS
11	Mon 3/24	L15: Filter noise, oversampling	
	Wed 3/26	L16: Noise shaping, sigma-delta ADC and DAC	
12	Mon 3/31	L17: Making poster; transfer function measurement	
	Wed 4/2	No lecture	
13	Mon 4/7	No lecture	
	Wed 4/9	No lecture; *Milestone 2 meetings*	4419 EECS
14	Mon 4/14	No lecture: prep for Design Expo	
	Thu 4/17	CoE Design Expo	
15	Tue 4/22	*Final project presentation 5-10pm*	1311 EECS
	Thu 4/24	*Final project report due by 5pm*	by email