

Date	Topic	Chapters	Handouts	Modules	Submissions/quizzes
1/20/2021	Introduction/motivation		Handout 1		
1/25/2021	Signals & systems and periodicity	1.1-1.3	Handout 2A		
1/27/2021	A/D and D/A conversion; discrete time signals&systems	1.4,2.1-2.5	Handout 2B		HW1+Q1(orientation)
2/1/2021	LTI systems, implementing discrete time systems	2.1-2.5	Handout 3		
2/3/2021	Correlation and convolution	2.6	Handout 4		HW2+Q2
2/8/2021	z-transform	3.1-3.3	Handout 5		Project1
2/10/2021	Transfer functions	3.2-3.3	Handout 5		HW3+Q3
2/15/2021	LTI systems in z domain	3.5-3.6	Handout 6		
2/17/2021	One-sided z-transform		Handout 7		HW4+Q4
2/22/2021	Review/buffer				Project2
2/24/2021	Discuss midterm, start Fourier	4.1-4.2			HW5+Q5
3/1/2021	Fourier transforms in continuous/discrete time	4.2	Handout 8		Test1 (Ch 1-3)
3/3/2021	Edge conditions for existence of Fourier	4.2-4.3	Handouts 9-10		HW6+Q6
3/8/2021	Gibbs effect	5.1	Handout 11		Project3, HW8+Q8
3/10/2021	Properties of Fourier	5.1-5.2	Handout 12		HW7, Q7
3/15/2021	Sinusoids as eigen-functions of LTI systems	5.4	Handout 13		Test2 (Ch4)
3/17/2021	Filters and deconvolution	5.5			HW8+Q8
3/22/2021	Review/buffer				Drop deadline
3/24/2021	NO CLASS: wellness day				
3/29/2021	Sampling, aliasing, and reconstruction	6.1			Project4
3/31/2021	Signal denoising; and end-to-end systems using DSP	6.2-6.3			HW9+Q9
4/5/2021	Modern DSP: bandpass signals and compressed sensing				Test3 (Ch5)
4/7/2021	Discrete Fourier transform (DFT)	7.1			HW10+Q10
4/12/2021	Properties of DFT	7.2.2			Project5
4/14/2021	Linear filters using DFT	7.2-7.3			HW11+Q11
4/19/2021	Filtering long sequences; frequency analysis using windows	7.4-7.5,8.1			Test4 (Ch6)
4/21/2021	Review/buffer				HW12+Q12
4/26/2021	FFT; Finite impulse response (FIR) filter design using windows	10.1-10.2			Project6
4/28/2021	Infinite impulse response (IIR) filters	10.3			
5/3/2021	Final exam				Test5 (Ch7-10)