

Course Calendar · MA 349 · Spring 2024

Week	Day	Date	Class Activities	Outside of Class Activities
1	MON	1/8		
	TUE	1/9	Lesson 1 Syllabus, Signal domains and examples of signals	
	WED	1/10		Homework: None
	THU	1/11	Lesson 2 Review of complex numbers	
	FRI	1/12		
2	MON	1/15	MLK Day	
	TUE	1/16	Lesson 3 System properites	
	WED	1/17		Homework: Assignment 1
	THU	1/18	Lesson 4 LTI System	
	FRI	1/19		
3	MON	1/22		
	TUE	1/23	Lesson 5 Finite Vector Spaces - Euclidean	
	WED	1/24		Homework: Assignment 2
	THU	1/25	Class Cancelled	
	FRI	1/26		

Week	Day	Date	Class Activities	Outside of Class Activities
4	MON	1/29		
	TUE	1/30	Lesson 6 Finite Dimensional Vector Spaces	
	WED	1/31		Homework: Assignment 3
	THU	2/1	Lesson 7 Inner Product Spaces	
	FRI	2/2		
5	MON	2/5		
	TUE	2/6	Lesson 8 Infinite Dimensional Vector Spaces	
	WED	2/7		Homework: Assignment 4
	THU	2/8	Exam 1 Review	
	FRI	2/9		
6	MON	2/12		
	TUE	2/13	Exam 1	
	WED	2/14		Homework: None
	THU	2/15	Lesson 9 Fourier Transforms $\exp(ikx)$ and Signals	
	FRI	2/16		

Week	Day	Date	Class Activities	Outside of Class Activities
7	MON	2/19		
	TUE	2/20	Lesson 10 Fourier Series: Synthesis	
	WED	2/21		Homework: Assignment 5
	THU	2/22	Lesson 11 Properties of Fourier Series	
	FRI	2/23		
8	MON	2/26		
	TUE	2/27	Lesson 12 Applications of Fourier Series	
	WED	2/28		Homework: Assignment 6
	THU	2/29	Lesson 13 Discrete Fourier Transform	
	FRI	3/1		
9	MON	3/4		
	TUE	3/5	Lesson 14 Properties of the DFT	
	WED	3/6		Homework: Assignment 7
	THU	3/7	Lesson 15 DFT Examples and Applications	
	FRI	3/8		

Week	Day	Date	Class Activities	Outside of Class Activities
10	MON	3/11	Spring Break	
	TUE	3/12	Spring Break	
	WED	3/13	Spring Break	
	THU	3/14	Spring Break	
	FRI	3/15	Spring Break	
11	MON	3/18		
	TUE	3/19	Lesson 16 FFT and noise floor, image processing	
	WED	3/20		Homework: Assignment 8
	THU	3/21	Lesson 17 FFT applications and examples	
	FRI	3/22		
12	MON	3/25		
	TUE	3/26	Exam 2 Review	
	WED	3/27		Homework: None
	THU	3/28	Exam 2	
	FRI	3/29		

Week	Day	Date	Class Activities	Outside of Class Activities
13	MON	4/1		
	TUE	4/2	Lesson 18 Shannon Nyquist Sampling Theorem	
	WED	4/3		Homework: Assignment 9
	THU	4/4	Lesson 19 Shannon Nyquist Sampling Theorem	
	FRI	4/5		
14	MON	4/8		
	TUE	4/9	Lesson 20 Convolution and Signal Processing	
	WED	4/10		Homework: Assignment 10
	THU	4/11	Lesson 21 Convolution and Signal Processing	
	FRI	4/12		
15	MON	4/15		
	TUE	4/16	Lesson 22 Wavelets and Signal Processing	
	WED	4/17		Homework: Assignment 11
	THU	4/18	Lesson 23 Wavelets and Signal Processing	
	FRI	4/19		

Week	Day	Date	Class Activities	Outside of Class Activities
16	MON	4/22	Lesson 24 Haar Wavelet	Quiet Period The University mandates that there be no homework or quizzes due this week
	TUE	4/23		
	WED	4/24	Final Exam Review	Homework: None
	THU	4/25		
	FRI	4/26	Final Exam Review	
17	MON	4/29	Final Exam 8:00-10:00am SCHM 122	
	TUE	4/30		
	WED	5/1		
	THU	5/2		
	FRI	5/3		