MATH 272, TENTATIVE CALENDAR SPRING 2020

Monday	TUESDAY	WEDNESDAY	FRIDAY	
Jan 20th	21st 1	22nd 2	24th 3	
Martin Luther	First day,	Complex	Homework 0	
King Day	review.	functions, phase.	due.	
	Complex functions.		Function spaces and Inner	
	functions.		products.	
27th 4	28th 5	29th 6	31st 7	
Hilbert spaces,	Infinite	Expansion and	Homework 1	
symmetries.	orthonormal	projection with	due.	
Symmetres.	bases.	bases.	Cont.	
Feb 3rd 8	4th 9	5th 10	7th 11	
Linear operators	Hermitian and	Spectra of	Homework 2	
and adjoints.	differential	differential	due.	
	operators.	operators.	Fourier series.	
10th 12	11th 13	12th 14	14th 15	
Cont.	Fourier	Special functions	Cont.	
	transforms.	(distributions).		
17th 16	18th 17	19th 18	21st 19	
Homework 3	Review.	Take home	Exam 1.	
due.		Exam 1 due.		
Review.	05/1	Review.	2041 22	
24th 20	25th 21	26th 22	28th 23	
Functions in	Curves.	Higher dimensional	Homework 4 due. Scalar	
higher dimensions.		ODEs.	fields.	
Mar 2nd 24	3rd 25	4th 26	6th 27	
Directional and	Integration of	Vector fields.	Homework 5	
partial	scalar fields.	v cotor fields.	due. Gradient	
derivatives.			operator.	
9th 28	10th 29	11th 30	13th 31	
Curl and	Integration of	Laplace	Homework 6	
divergence	vector fields.	operator.	due. Potential	
operators.			functions.	
16th	17th	18th	20th	
Spring Break	Spring Break	Spring Break Spring Break		

Monday	Tuesday		Wednesday		Friday	
23rd 32	24th	33	25th	34	27th	35
Flows of vector fields.	Coordinate systems.		Parameterizations		Cylindrical coordinates	i.
30th 36	31st	37	Apr 1st	38	3rd	39
Calculus in cylindrical coordinates.	Spherical coordinates.		Calculus in spherical coordinates.		General coordinate systems.	
6th 40	7th	41	8th	42	10th	43
Homework 7 due. Review.	Review.		Take home Exam 2 due. Review.		Exam 2.	
13th 44	14th	45	15th	46	17th	47
Partial differential equations, separation of variables.	Laplace and Poisson's equation.		Heat and wave equation.		Homework 8 due. Fourier transforms for time dependent problems.	
20th 48	21st	49	22nd	50	24th	51
Quantum harmonic oscillator.	Time depende Schödinger equation.	ent	Cont.		Homework 9 due. Maxwell's equations.	
27th 52	28th	53	29th	54	May 1st	55
Cont.	Cont.		PDEs in other coordinate systems.		Cont.	
4th 56	5th	57	6th	58	8th	59
Homework 10 due. Review.	Review.		Take home Exam 3 due. Review.		Exam 3.	