$\begin{array}{c} \text{MATH 272, Tentative Calendar} \\ \text{Spring 2020} \end{array}$

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		Function spaces
	functions.		and Inner
			products.
27th 4	28th 5	29th 6	31st 7
Hilbert spaces,	Infinite	Series and	Homework 1
symmetries.	orthonormal	integrals as	due.
	bases.	linear	Projection with
		combinations.	bases.
[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.	201
24th 20	25th 21	26th 22	28th 23
Curves and	Scalar Fields	Gradient and	Integration of
tangent vectors.	and partial differentiation.	directional	scalar fields.
		derivatives.	0.1
Mar 2nd 24	3rd 25	4th 26	6th 27
Homework 4	Divergence and	Laplace operator	Integral calculus
due. Vector	curl of vector	and flux.	of vector fields.
fields and the	fields.		
Jacobian.	10.1	1111 00	10.1
9th 28	10th 29	11th 30	13th 31
Homework 5	Implicit surfaces	Explicit parame-	Cylindrical
due. Conservative	and surface normals.	terizations, tangent planes,	coordinates.
potential	normais.	and normals	
functions.		and normais	
Tancolons.			

Monday	Tuesday	Wednesday	FRIDAY
16th	17th	18th	20th
Spring Break	Spring Break	Spring Break	Spring Break
23rd 32	24th 33	25th 34	27th 35
Homework 6 due. Cont.	Spherical coordinates.	Cont.	Catch-up day.
30th 36	31st 37	Apr 1st 38	3rd 39
Homework 7	Review.	Take home	Exam 2.
due. Review.		Exam 2 due.	
		Review.	
6th 40	7th 41	8th 42	10th 43
Higher	Partial	Laplace and	Heat and wave
dimensional	differential	Poisson's	equation.
ODEs	equations.	equation.	Fourier
			transforms.
13th 44	14th 45	15th 46	17th 47
Homework 8	Time dependent	Cont.	Maxwell's
due. Cont.	Schödinger		equations.
	equation.		
20th 48	21st 49	22nd 50	24th 51
Homework 9	Cont.	PDEs in other	Cont.
due. Cont.		coordinate	
		systems.	
27th 52	28th 53	29th 54	May 1st 55
Homework 10	Review.	Take home	Exam 3.
due. Review.		Exam 3 due.	
		Review.	
4th 56	5th 57	6th 58	8th 59
Mini-project:	Mini-project:	Mini-project:	Mini-project:
Hydrogen atom.	Hydrogen atom.	Hydrogen atom.	Hydrogen atom.