Tentative Daily Schedule for MATH 4340-241 Summer II (online) 2020

June

Monday	Tuesday	Wednesday	Thursday	Friday
		(79:22) 24	(88:54) 25	(84:42) 26
		Lectures 1.1&2	Lectures 1.3&4	Lectures 2.1&2
		Vector spaces.	Linear maps.	Fundamenal
		Linear	Inner products &	theorem of ODEs.
		independence.	orthogonality	The Wronskian.
			Last Day to Add	
		Classes Begin	HW 1 due	HW 2 due

July

Monday	Tuesday	Wednesday	Thursday	Friday
(83:44) 29	(44:24) 30	(79:55) 1	(79:38) 2	3
Lectures 2.3&4	Lectures 2.5	Lecture 2.6&7	Lecture 3.1&2	
Affine spaces &	Power series	Frobenius method	Fourier series:	Holiday
inhomogeneous	solutions to ODEs	& Bessel's	theory and	No Classes
ODEs.		equation	computation.	
Last drop: No W	HW 3 due		HW 4 due	(======
(66:55) 6	(88:17) 7	8	(81:09) 9	(56:59) 10
Lectures 3.3&4	Lectures 3.5&6		Lectures 3.7&8	Lecture 4.1
Fourier sine &	Complex inner	MIDTERM 1	Fourier transforms	Boundary value
cosine series;	products & Fourier		and Parsevel's	problems
solving ODEs.	series		theorem.	
HW 5 due				HW 6 due
(79:30) 13	(42:30) 14	(61:55) 15	(95:51) 16	(71:36) 17
Lectures 4.2&3	Lecture 4.4	Lectures 4.5&6	Lecture 5.1&2	Lecture 5.3&4
Hermitian matrices	Sturm-Liouville	Generalized	Fourier law & the	Transport, wave,
& self-adjoint	theory.	Fourier theory and	diffusion & heat	& Schrödinger
operators.	uloolyi	orthogonal	equations.	equations.
		expansions.	- 1	Last day to drop
HW 7 due		HW 8 due		HW 9 due
(90:44) 20	(86:31) 21	22	(53:53) 23	(29:06) 24
Lecture 6.1&2	Lectures 6.3&4		Lecture 7.1	Lecture 7.2
PDEs on infinite &	Solving PDEs with	MIDTERM 2	Harmonic functions	The Helmholtz
semi-infinite	Laplace & Fourier		and the Laplacian	equation.
domains.	transforms.		operator.	
HW 10 due				HW 11 due
(54:04) 27	(51:53) 28	(48:02) 29	30	31
Lecture 7.3	Lecture 7.4	Lecture 7.5		
Higher-	The Laplacian	The heat, wave, &		
dimensional heat	operator in polar	Laplace's equation	Study Day	FINAL EXAM
& wave equations.	coordinates.	in polar coords.		
HW 12 due		Last Day of Class	HW 13 due	

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