Tentative Daily Schedule for MATH 4340-241 Summer II (online) 2018

June

Monday	Tuesday	Wednesday	Thursday	Friday
		(79:22) 27	(88:54) 28	(84:42) 29
		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.
		Classes Begin	Last Day to Add	
			HW 1 due	HW 2 due

July

Monday	Tuesday	Wednesday	Thursday	Friday
(83:44) 2	(44:24) 3	4	(79:55) 5	(79:38) 6
Lectures 2.3&4	Lectures 2.5		Lecture 2.6&7	Lecture 3.1&2
Affine spaces &	Power series	Holiday	Frobenius method	Fourier series:
inhomogeneous	solutions to ODEs	No Classes	& Bessel's equation	theory and
ODEs.				computation.
Last drop: No W				
	HW 3 due			HW 4 due
(66:55) 9	(88:17) 10	11	(81:09) 12	(56:59) 13
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) 16	(42:30) 17	(61:55) 18	(95:51) 19	(71:36) 20
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.		orthogonal	equations.	equations.
		expansions.		Last day to drop
HW 7 due		HW 8 due		HW 9 due
(90:44) 23	(??:??) 24	25	(53:53) 26	(29:06) 27
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

August

Monday	Tuesday	Wednesday	Thursday	Friday
(54:04) 30	(51:53) 31	(48:02) 1	2	3
Lecture 7.3 Higher- dimensional heat & wave equations.	Lecture 7.4 The Laplacian operator in polar coordinates.	Lecture 7.5 The heat, wave, & Laplace's equation in polar coords.	Study Day	FINAL EXAM
HW 12 due		Last Day of Class	HW 13 due	

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