Tentative Daily Schedule for MATH 4340-241 Summer II (online) 2017

June

Monday	Tuesday	Wednesday	Thursday	Friday
		(79:22) 28	(88:54) 29	(84:42) 30
		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

July

Monday	Tuesday	Wednesday	Thursday	Friday
(83:44) 3	4	(44:24) 5	(79:55) 6	(79:38) 7
Lectures 2.3&4	Holiday	Lectures 2.5	Lecture 2.6&7	Lecture 3.1&2
Affine spaces &	No Classes	Power series	Frobenius method	Fourier series:
inhomogeneous		solutions to ODEs	& Bessel's equation	theory and
ODEs.				computation.
Last drop: No W				
HW 2 due			HW 3 due	
(66:55) 10	(88:17) 11	12	(81:09) 13	(56:59) 14
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 4 due			HW 5 due	
(79:30) 17	(42:30) 18	(61:55) 19	(44:28) 20	(51:23) 21
Lectures 4.2&3	Lecture 4.4	Lectures 4.5&6	Lecture 5.1	Lecture 5.2
Hermitian matrices	Sturm-Liouville	Generalized	Fourier law & the	Different boundary
& self-adjoint	theory.	Fourier theory and	diffusion & heat	conditions.
operators.		orthogonal	equations.	
		expansions.		Last day to drop
HW 6 due		HW 7 due		HW 8 due
(40:32) 24	(??:??) 25	26	(53:53) 27	(29:06) 28
Lecture 5.3	Lecture 5.4		Lecture 7.1	Lecture 7.2
The transport and	The Schrödinger	MIDTERM 2	Harmonic functions	The Helmholtz
wave, equations	equation.		and the Laplacian	equation.
			operator.	
HW 9 due			HW 10 due	

August

Monday	Tuesday	Wednesday	Thursday	Friday
(54:04) 31	(51:53) 1	(48:02) 2	3	4
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 11 due		Last Day of Class	HW 12 due	

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