Tentative Daily Schedule for MATH 4340-241

Summer II (online) 2019

June

Monday	Tuesday	Wednesday	Thursday	Friday
		(79:22) 26	(88:54) 27	(84:42) 28
		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) 1	(44:24) 2	(79:55) 3	4	(79:38) 5
Lectures 2.3&4	Lectures 2.5	Lecture 2.6&7		Lecture 3.1&2
Affine spaces &	Power series	Frobenius method	Holiday	Fourier series:
inhomogeneous	solutions to ODEs	& Bessel's	No Classes	theory and
ODEs.		equation		computation.
Last drop: No W	HW 3 due			HW 4 due
(66:55) 8	(88:17) 9	10	(81:09) 11	(56:59) 12
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) 15	(42:30) 16	(61:55) 17	(95:51) 18	(71:36) 19
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.
1.11.47.77.41		expansions.		Last day to drop
HW 7 due		HW 8 due		HW 9 due
(90:44) 22	,	24	(53:53) 25	(29:06) 26
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 domains.	Laplace & Fourier transforms.		and the Laplacian	equation.
uomains.	u ansionis.		operator.	
HW 10 due				HW 11 due

July / August

Monday	Tuesday	Wednesday	Thursday	Friday
(54:04) 29	(51:53) 30	(48:02) 31	1	2
Lecture 7.3	Lecture 7.4	Lecture 7.5		
Higher- dimensional heat & wave equations.	The Laplacian operator in polar coordinates.	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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Last Updated: April 25, 2019