

## Math 307 I — Spring 2017 Schedule

Week 1	M	3/27	Intro, calculus review, §2.2: separable equations
	W	3/29	§2.1: integrating factors
			<b>Quiz 1:</b> separable equations, calculus
	F	3/31	§2.3: first order modeling I
Week 2	M	4/3	§2.3: first order modeling II
			<b>Homework due, §2.1, 2.2</b>
	W	4/5	§2.5: autonomous equations
	F	4/7	§2.7: Euler's method
Week 3	M	4/10	§2.4, 2.8: linear equations; existence and uniqueness
			<b>Homework due, §2.3, 2.5</b>
	W	4/12	Catch up and review
			<b>Quiz 2:</b> chapter 2
	F	4/14	§3.1: homogeneous, constant coefficient equations
Week 4	M	4/17	§3.2: the Wronskian
			<b>Homework due, §2.4, 2.7, 2.8</b>
	W	4/19	§3.3: second order questions and complex roots
	F	4/21	§3.3, 3.4: repeated roots, reduction of order
Week 5	M	4/24	§3.4: repeated roots, reduction of order
			<b>Homework due, §3.1, 3.2</b>
	W	4/26	Catch up and review
	F	4/28	<b>Midterm</b>
Week 6	M	5/1	§3.5: non-homogeneous DE's I
			<b>Homework due, §3.3, 3.4</b>
	W	5/3	§3.5: non-homogeneous DE's II
	F	5/5	§3.6: variation of parameters
Week 7	M	5/8	§3.7: unforced vibrations
			<b>Homework due, §3.5</b>
	W	5/10	§3.7, 3.8: unforced and forced vibrations
			<b>Quiz 3:</b> §3.1-§3.6
	F	5/12	Catch up and review
Week 8	M	5/15	§3.8: forced vibrations
			<b>Homework due, §3.6, 3.7</b>
	W	5/17	§3.8, 6.1: Laplace transform
	F	5/19	§6.1: Laplace transform

Week 9	M	5/22	§6.1, 6.2: initial value problems via Laplace
			<b>Homework due, §3.8</b>
	W	5/24	§6.2: initial value problems via Laplace
	F	5/26	§6.3: step functions
			<b>Homework due, §6.1, 6.2</b>
Week 10	M	5/29	<b>No class</b> (Memorial Day)
	W	5/31	§6.4 discontinuous forcing
			<b>Quiz 4:</b> §6.1-§6.3
	F	6/2	Review
			<b>Homework due, §6.3, 6.4</b>
Week 11	M	6/5	<b>Final</b> , emphasis on chapters 3 and 6. In lecture room, 2:30-4:20pm.