Math 311 - 01	Course Schedule			Spring 2019
TEXT:	The Tools of Mathematical Reasoning, by Tamara J. Lakins			
	AMS Pure and	Applied Undergradua	ate Texts #26	
SCHEDULE:	Unless announced otherwise, all topics listed herein are possible topics on the final exam. The daily sch			The daily schedule
	may vary slightly from the schedule given below. School closures (weather related or otherwise) could also le			
			tances a revised schedule will be posted to the cou	
DAILY WORK:	Please read through the sections in the book to be covered before coming to class each day. The exercises listed			
	represent a mini	mal assignment and sho	uld be sufficient to practice and gain understanding	ng of the related
	material. Some students may need to work additional exercises to attain mastery of the material.			
FINAL EXAM:	The final exam for this course will be held from 9:00-11:00am on Thursday, May 9 th			
	You are expected to arrange your schedule to allow you to take all in-class exams (including the final exam) at			
********	their scheduled		MODYCG	
WEEK	DATES	SECTIONS	TOPICS	
I	Tues, Jan 15	Course Intro, 1.1	Language, Logic, and Proof	
	Thurs, Jan 17	1.1	Language, Logic, and Proof	
		Drop/Add Dead	line – Friday, January 18 th	
2	Tues, Jan 22	1.2	Proof	
	Thurs, Jan 24	1.2	Proof	
		Monday, Januar	ry 28 th : Pass/No Credit Deadline	
2	T I 20	2.1	Direct Descrip	
3	Tues, Jan 29 Thurs, Jan 31	2.1	Direct Proofs Direct and Indirect Proofs Control positive	
5	Tues, Feb 5	2.1, 2.2 2.2	Direct and Indirect Proofs – Contrapositive Indirect Proof – Contradiction	
	Thurs, Feb 7	2.2	Two Important Theorems	
	Tues, Feb 12	2.4, Review	Statements Involving Mixed Quantifiers	
	Thurs, Feb 14	Exam 1	Statements involving whited Quantifiers	
6	Tues, Feb 19	3.1	Mathematical Induction	
	Thurs, Feb 21	3.1, 3.2	Mathematical Induction, Strong Induction	
7	Tues, Feb 26	4.1, 4.2	The Language of Sets; Set Operations	
	Thurs, Feb 28	4.2	Set Operations	
	•	Spring 1	Break – No Classes	
			h 4 th – March 8 th	
8	Tues, Mar 12	4.3	Arbitrary Unions and Intersections	
	Thurs, Mar 14	5.1	Relations and Functions	
9	Tues, Mar 19	5.2, 5.3	Function Composition, 1-1 and Onto Function	
	Thurs, Mar 21	5.3, 5.4	1-1 and Onto Functions; Invertible Functions	3
	Tues, Mar 26	5.4, 5.5	Functions and Sets	
	Thurs, Mar 28	Exam 2		
11	Tues, Apr 2	6.4	Congruences	
	Thurs, Apr 4	6.5	Congruence Classes	
12	Tues, Apr 9	7.1	More on Relations	
	Thurs, Apr 11	7.2, 7.3	Equivalence Relations and Set Partitions	
13	Tues, Apr 16	No classes	Student Academic Conference	
	Thurs, Apr 18	Addendum	Partially Ordered Sets	
		Tuesday, Apr	il 23 rd : Withdrawal Deadline	
14	Tues, Apr 23	Addendum	Partially Ordered Sets	
	Thurs, Apr 25	Addendum	Additional Topics	
15	Tues, Apr 30	Addendum	Additional Topics	
	Thurs, May 2	Addendum	Additional Topics	
16	Tues, May 7	Review		
	Wed, May 8	No classes	Study Day	