

Discrete Mathematics Class Schedule Fall 2017

Day	Date	Topic	Reading before class
Monday	8/21/2017	No Class Solar Eclipse Day	
Wednesday	8/23/2017	Introductory Problems	
Friday	8/25/2017	Introduction to Mathematical Proofs	
Monday	8/28/2017	Logical operators	1.1-1.4
Wednesday	8/30/2017	Logic predicates and quantifiers	1.5-1.7
Friday	9/1/2017	Inference rules and quantifiers in proofs	1.8-1.12
Monday	9/4/2017	No Class Labor Day	
Wednesday	9/6/2017	Proof analysis	2.1-2.2
Friday	9/8/2017	Proof analysis	2.3-2.5
Monday	9/11/2017	Boolean Algebra	3.1-3.3
Wednesday	9/13/2017	Boolean Algebra	3.4-3.6
Friday	9/15/2017	Sets and set operations	4.1-4.3
Monday	9/18/2017	Partitions of sets	4.4-4.7
Wednesday	9/20/2017	Proofs involving sets	
Friday	9/22/2017	Functions and inverse functions	5.1-5.4
Monday	9/25/2017	Composition and Logarithm functions	5.5-5.6
Wednesday	9/27/2017	Relations and digraphs	6.1-6.4
Friday	9/29/2017	Graph powers	6.5
Monday	10/2/2017	Matrix multiplication and graph powers	6.6
Wednesday	10/4/2017	Partial orders	6.7-6.8
Friday	10/6/2017	Equivalence relations	6.9-6.10
Monday	10/9/2017	Proofs involving equivalence relations	
Wednesday	10/11/2017	Introduction to algorithms	7.1-7.3
Friday	10/13/2017	Computation topics	7.4-7.5
Monday	10/16/2017	Cantor's diagonalization technique	7.6
Wednesday	10/18/2017	Integer Properties	8.1-8.4
Friday	10/20/2017	Introduction to cryptography	8.5-8.8
Monday	10/23/2017	RSA algorithm	8.9
Wednesday	10/25/2017	Proofs involving integer properties	
Friday	10/27/2017	Recurrance relations	9.1-9.3
Monday	10/30/2017	Mathematical Induction	9.4-9.6
Wednesday	11/1/2017	Solving recurrance equations	9.7
Friday	11/3/2017	Proofs involving closed form formulas	
Monday	11/6/2017	Counting	10.1-10.4
Wednesday	11/8/2017	Counting	10.5-10.7
Friday	11/10/2017	Counting	10.8-10.10
Monday	11/13/2017	inclusion/exclusion and more counting	10.11
Wednesday	11/15/2017	Binomial coefficient and pigeonhole principle	11.2-11.3
Friday	11/17/2017	Flex day (if time, the Entscheidungsproblem)	
Monday	11/20/2017	No Class Thanksgiving Break	
Wednesday	11/22/2017	No Class Thanksgiving Break	
Friday	11/24/2017	No Class Thanksgiving Break	
Monday	11/27/2017	Graphs	13.1-13.3
Wednesday	11/29/2017	Paths, cycles, connectivity	13.4-13.6
Friday	12/1/2017	Trees	14.1-14.3
Monday	12/4/2017	Proofs involving graph theory	
Wednesday	12/6/2017	Flex day	
Friday	12/8/2017	Review for final	
Monday	12/11/2017	Final exam for section 1: 10am-noon in the regular classroom	
Wednesday	12/13/2017	Final exam for section 2: 10am-noon in the regular classroom	
Wednesday	12/13/2017	Final exam for section 3: 12:30-2:30 pm in the regular classroom	