

Math 180A Winter 2022 Syllabus

Week	Date	Sections covered	Assessments/Holidays
1	Mon 1/3	1.1 Intro	
	Wed 1/5	1.2 Pythagorean triples	
	Fri 1/7	1.3 Triples and the unit circle	
2	Mon 1/10	2.1 GCD and Euclidean algorithm	
	Wed 1/12	2.1	
	Fri 1/14	2.2 Unique prime factorization	HW/Quiz 1
3	Mon 1/17		MLK Day Holiday
	Wed 1/19	2.2	
	Fri 1/21	3.1 Congruences	HW/Quiz 2
4	Mon 1/24	3.1, 3.2 Lagrange's Theorem	
	Wed 1/26	3.2	
	Fri 1/28	3.3 Fermat's Little Theorem	HW/Quiz 3
5	Mon 1/31	Review	
	Wed 2/2		Midterm
	Fri 2/4	4.1 Euler's Theorem & Function	
6	Mon 2/7	4.1	
	Wed 2/9	4.1, 4.2 Chinese Remainder Thm	
	Fri 2/11	4.2	
7	Mon 2/14	5.1 Primes and their distribution	
	Wed 2/16	5.2 Mersenne Primes & Perfect Numbers	
	Fri 2/18	5.2	HW/Quiz 4
8	Mon 2/21		Presidents Day Holiday
	Wed 2/23	6.1 Powers & Roots	
	Fri 2/25	6.2 RSA	HW/Quiz 5
9	Mon 2/28	7.1 Quadratic Residues	
	Wed 3/2	7.1	
	Fri 3/4	7.2 Quadratic Reciprocity	HW/Quiz 6
10	Mon 3/7	7.2	
	Wed 3/9	7.2	
	Fri 3/11	Review	
11	Fri 3/18		Final Exam 13:30–15:30

Content will be updated as we move through the term