

Dr. Mann's M328K Fall 2014 Introduction to Number Theory

Date	Text Sections	Concepts
27-Aug	1.1	Syllabus & Numbers, Sequences, and Sums
29-Aug	1.1	Numbers, Sequences, and Sums
1-Sep	<i>Holiday</i>	<i>Labor Day</i>
3-Sep	1.2	Sums and Products
5-Sep	1.3	Mathematical Induction
8-Sep	1.3	Mathematical Induction
10-Sep	1.5	Divisibility
12-Sep	3.1	Prime Numbers
15-Sep	3.1	Greatest Common Divisors
17-Sep	Review	Exam 1 Review
19-Sep	Exam 1	Sections 1.1-1.3, 1.5, 3.1
22-Sep	3.3	Greatest Common Divisors
24-Sep	3.3	Greatest Common Divisors
26-Sep	3.5	The Fundamental Theorem of Arithmetic
29-Sep	3.7	Linear Diophantine Equations
1-Oct	4.1	Introduction to Congruences
3-Oct	4.1	Introduction to Congruences
6-Oct	4.2	Linear Congruences
8-Oct	4.2	Linear Congruences
10-Oct	4.3	The Chinese Remainder Theorem
13-Oct	4.3	The Chinese Remainder Theorem
15-Oct	4.4	Solving Polynomial Congruences
17-Oct	4.4	Solving Polynomial Congruences
20-Oct	Flex Day	
22-Oct	Review	Exam 2 Review
24-Oct	Exam 2	Sections 3.3, 3.5, 3.7, 4.1-4.4
27-Oct	6.1	Wilson's Theorem and Fermat's Little Theorem
29-Oct	6.1	Wilson's Theorem and Fermat's Little Theorem
31-Oct	6.1	Wilson's Theorem and Fermat's Little Theorem
3-Nov	6.3	Euler's Theorem
5-Nov	7.1	The Euler Phi-Function
7-Nov	7.1	The Euler Phi-Function
10-Nov	7.2	The Sum and Number of Divisors

12-Nov	7.3	Perfect Numbers and Mersenne Primes
14-Nov	Flex Day	
17-Nov	Review	Exam 3 Review
19-Nov	Exam 3	6.1, 6.3, 7.1-7.3
21-Nov	13.1	Pythagorean Triples
24-Nov	13.2	Fermat's Last Theorem
26-Nov	Flex Day	Student Presentations
28-Nov	<i>Holiday</i>	<i>Thanksgiving Holiday</i>
1-Dec	Flex Day	Student Presentations
3-Dec	Flex Day	Student Presentations
5-Dec	Review	Final Exam Review
11-Dec	Final Exam	All Topics Covered During the Semester