

## Math 239, Spring 2009, Tentative Schedule

Monday	Tuesday	Thursday	Friday
January 19 Martin Luther King Day	January 20 1.1 logical forms	January 22 1.2 conditional statements	January 23 1.3 valid and invalid arguments
January 26 1.4 digital logic circuits	January 27 1.5 circuits for addition	January 29 2.1 predicates	January 30 2.2 quantified statements
February 2 2.3 multiple quantifiers	February 3 2.4 arguments	February 5 3.1 direct proof	February 6 3.2 rational numbers
February 9 3.3 divisibility	February 10 3.4 division algorithm	February 12 3.5 floor and ceiling	February 13 3.6 indirect argument
February 16 3.7 two classical theorems	February 17 review	February 19 exam 1	February 20 4.1 sequences
February 23 4.2 induction	February 24 4.3 induction	February 26 4.4 strong induction	February 27 5.1 set theory
March 2 5.2 properties of sets	March 3 5.3 Boolean algebras	March 5 5.4 Russell's paradox	March 6 6.1 counting and probability
March 16 6.2 multiplication rule	March 17 6.3 addition rule	March 19 6.4 combinations	March 20 6.5 combinations with repetitions
March 23 6.6 algebra of combinations	March 24 6.7 binomial theorem	March 26 review	March 27 exam 2
March 30 7.1 functions	March 31 7.2 one-to-one and onto functions	April 2 7.2 one-to-one and onto functions	April 3 7.3 pigeonhole principle
April 6 7.4 composition of functions	April 7 7.5 cardinality	April 9 8.1 recursion	April 10 Good Friday
April 13 10.1 relations	April 14 10.2 reflexivity, symmetry, transitivity	April 16 10.3 equivalence relations	April 17 10.3 equivalence relations
April 20 10.5 partial orders	April 21 11.1 graphs	April 23 Honors Symposium	April 24 International Plaid Day review
April 27 exam 3	April 28 11.2 paths and circuits	April 30 review	May 1
May 4 final exam, 7–9 pm	May 5	May 7	May 8