21-127 - CONCEPTS OF MATHEMATICS, SUMMER 1 2014
TENTATIVE SCHEDULE

Day	Topic
M, May 19	**HW 1 out**, Administrivia, what is a proof?
T, May 20	Numbers and inequalities
W, May 21	Numbers and inequalities
R, May 22	Basic logic: and, or, not, implies
F, May 23	**HW 1 due, HW 2 out**, basic logic: quantifiers
M, May 26	**Memorial day: no class.**
T, May 27	**HW 3 out**, basic logic: elementary proof techniques
W, May 28	**HW 2 due**, Sets: basic operations and notation
R, May 29	Induction
F, May 30	**HW 3 due, HW 4 out**, Induction
M, June 2	Sets: Relations and functions
T, June 3	**HW 4 due, HW5 out**, Sets: Relations and functions, equivalence relations
W, June 4	Sets: cardinalities
R, June 5	Sets: cardinalities
F, June 6	**HW 5 due, HW 6 out**, Review
M, June 9	**Midterm.**
T, June 10	**HW 6 due, HW 7 out**, Sets: the pigeonhole principle
W, June 11	Sets: the pigeonhole principle, Combinatorics: counting
R, June 12	Combinatorics: counting
F, June 13	**HW 7 due, HW 8 out**, Number theory: primes and divisibility
M, June 16	Number theory: the fundamental theorem of arithmetic
T, June 17	**HW 8 due, HW 9 out**, Number theory: modular arithmetic
W, June 18	Number theory: the Chinese remainder theorem
R, June 19	Number theory: Fermat's little theorem
F, June 20	**HW 9 due, HW 10 out**, Probability: definitions
M, June 23	Probability: conditional probability and Bayes' theorem
T, June 24	**HW10 due**, Probability: random variables and expectation
W, June 25	Selected topics (or most likely catching up)
R, June 26	Review
F, June 27	**Final**