Dr. Mann's M325K Fall 2010

25-Aug	2.1 Logical Form and Logical equivalence
27-Aug	2.1 Logical Form and Logical equivalence
30-Aug	2.2 Conditional Statements
1-Sep	2.2 Conditional Statements
3-Sep	2.3 Valid and Invalid Arguments
6-Sep	**Labor Day Holiday**
8-Sep	3.1 Introduction to Predicates and Quantified Statements I
10-Sep	3.2 Introduction to Predicates and Quantified Statements II
13-Sep	3.2 Introduction to Predicates and Quantified Statements II
15-Sep	Exam 1 Review
17-Sep	**Exam 1**
20-Sep	3.3 Statements Containing Multiple Quantifiers
22-Sep	3.3 Statements Containing Multiple Quantifiers
24-Sep	3.4 Arguments with Quantified Statements
27-Sep	4.1 Direct Proof and Counterexample I: Introduction
29-Sep	4.1 Direct Proof and Counterexample I: Introduction
1-Oct	4.2 Direct Proof and Counterexample II: Rational Numbers
4-Oct	4.3 Direct Proof and Counterexample III: Divisibility
6-Oct	4.4 Direct Proof and Counterexample IV: Division Into Cases
8-Oct	4.6 Indirect Argument: Contradiction and Contraposition
11-Oct	5.1 Sequences
13-Oct	Exam 2 Review
15-Oct	**Exam 2**
18-Oct	5.2 Mathematical Induction I
20-Oct	5.3 Mathematical Induction II
22-Oct	5.4 Strong Mathematical Induction and Well Ordering
25-Oct	6.1 Basic Definitions of Set Theory
27-Oct	6.2 Properties of Sets
29-Oct	6.3 Disproofs and Algebraic Proofs
1-Nov	6.3 Boolean Algebras
3-Nov	5.4 Russel's Paradox and the Halting Problem
5-Nov	7.1 Functions Defined on General Sets
8-Nov	7.2 One-to-one and Onto, Inverse Functions
10-Nov	Exam 3 Review
12-Nov	**Exam 3**
15-Nov	9.4 The Pigeonhole Principle
17-Nov	7.3 Composition of Functions
19-Nov	8.1 Relations on Sets
22-Nov	8.2 Reflexivity, Symmetry, and Transitivity
24-Nov	8.3 Equivalence Relations
26-Nov	**Thanksgiving Holiday**
29-Nov	10.1 Graphs: Definitions and Basic Properties
1-Dec	10.2 Trails, Paths, and Circuits
3-Dec	Final Review
8-Dec	**Final Exam**

Deviations from this tentative calendar may occur during the semester. The actual material covered each day may only be ascertained by attending the lectures.