

# CMSC 250 Summer 2008 Tentative Class Schedule

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**Note:** This is the schedule that I followed in Summer 2008.

As for the readings, I will not require that you read them. However, the book can be helpful in increasing understanding and I *recommend* that you read the readings.

Also, due to the nature in the course, there may be readings in the book that cover material that was not given in the course. Unless otherwise specified, you are *not* responsible for material in the book that was not covered in class or discussion, or given on a homework or quiz.

I also will cover material that is *not in the book*, such as Constructive Induction. You *are responsible* for this material covered in class, unless told otherwise.

Each Unit review is intended to be  $\frac{1}{2}$  of the class period it is scheduled in.

Function Review and Relation Review were skipped to give more time to review for the final. I chose to go over them in a Review Session offered outside of class.

Date	Lecture Topics	Relevant Readings
6/2/08	Intro/Logic (Truth Tables and Logical Equivalence)	1.1, 1.2
6/3/08	Logic (Rules, Arguments, and Unsimplified Formulas)	1.1, 1.2, 1.3, 1.4 (part)
6/4/08	Logic (F. O. Quantifiers)	2.1, 2.2
6/5/08	Logic (Multiple Quantifiers, and Interpretations)	2.3
6/6/08	Discussion Section	—
6/9/08	Logic Review/Number Theory (Intro. to. Direct Proof)	3.1
6/10/08	Number Theory (Dir. Proof cont. / Mod)	3.1, 3.2, 3.3, 3.4
6/11/08	Number Theory (Mod cont. / Q.R. Thm / $\lfloor \rfloor$ , $\lceil \rceil$ )	3.4, 3.5, 10.4 (pgs 611-616)
6/12/08	Number Theory (Ind. Proof / UFT / Classic Thms)	3.3, 3.6, 3.7
6/13/08	Discussion Section	—
6/16/08	Number Theory (UFT/ Thms Cont.)/Number Theory Review	3.7
6/17/08	Induction (Sequences and Sums)	4.1
6/18/08	Exam 1	—
6/19/08	Induction (Inductive Proofs)	4.2
6/20/08	Discussion Section	—
6/23/08	Induction (Seq. Rules and More Inductive Proofs)	4.1, 4.2, 4.3
6/24/08	Induction (Strong Ind.)	4.4
6/25/08	Induction (Strong and Constructive Ind.)	4.4
6/26/08	Induction Review/Sets (Notat. and Defs.)	5.1
6/27/08	Discussion Section	—
6/30/08	Sets (Notat., Set Disproofs and Venn Diagrams)	5.1, 5.3 (pgs. 283-287)
7/1/08	Sets (Set Proofs)/Sets Review	5.2, 5.3 (pgs. 283-287)
7/2/08	Count/Prob. (Lists, $P(n,r)$ $C(n,r)$ , Mult. Rule)	6.1, 6.2, 6.4
7/3/08	Count/Prob. (Addition Rule, Incl.-Excl., More $C(n,r)$ )	6.3, 6.4,
7/4/08	No Discussion - Happy July 4 <sup>th</sup> !	—
7/7/08	Count/Prob. (Probability)	6.1, 6.8, 6.9
7/8/08	Count/Prob. (Choice with Rep. and Putting it Together)	6.5
7/9/08	Counting Review/Exam 2 Review	—
7/10/08	Exam 2	—
7/11/08	Discussion Section	—
7/14/08	Functions (Function Defs, 1-1, onto)	7.1, 7.2
7/15/08	Functions (Inv, Proofs and Pigeonhole Principle)	7.2, 7.3
7/16/08	Functions (Compositions)	7.4
7/17/08	Functions (Countability and Uncountability)	7.5
7/18/08	Discussion Section	—
7/21/08	Functions (Countab./Abstracting $\circ$ )/Relations (Def, Inv.)	7.5, 10.1
7/22/08	Relations (Relation Properties, Proofs/Disproofs)	10.2, 10.5 (632-634)
7/23/08	Final Review I - Sample Final Ans./Q&A	—
7/24/08	Final Review II - Trouble Spots/Subtle Points	—
7/25/08	Final	—