Introduction to Discrete Mathematics 3450:208 Summer 2016

3450:208-311 MTWThF 12:00-1:15pm, CRH 311

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Office Hours: MTWTh 11:00am–11:50am

Learning Outcomes

Students are expected to be able to:

• communicate Mathematical results through the proper use of Mathematical notation and words
• use symbolic logic and various proof-writing techniques, including Mathematical Induction
• describe the basic properties and operations of sets, functions and relations
• learn the basics of logic circuits, number systems, set theory, sequences, algorithms, and probability

Course Outline

• Chapter 1: Speaking Mathematically
• Chapter 2: The Logic of Compound Statements
• Chapter 3: The Logic of Quantified Statements
• Test #1
• Chapter 4: Elementary Number Theory and Methods of Proof
• Chapter 5: Sequences, Mathematical Induction, and Recursion
• Test #2
• Chapter 6: Set Theory
• Chapter 7: Functions
• Chapter 8: Relations
• Test #3
• Chapter 9: Counting and Probability
• Chapter 10: Graphs and Trees
• Chapter 11 : Analysis of Algorithm Efficiency
• Test #4

Policy

1. Any student who is not on the first week class list will not be allowed to participate in the class in any way, including attending, or having any work graded.

2. Inappropriate behaviour in the classroom may be grounds for academic discipline, up to, and including dismissal from the course. In particular, disruption of the class by cell phones will not be tolerated. Any use of a cell phone during a test will result in a test score of zero.

3. Incompletes will only be given in documentable cases of long-term illness, or similar problems. In addition, at least half of the semester’s work must have been completed, with at least an average grade of C. College policy also states that a student may not sit in on the course the next semester to make up the incomplete, but only to make up the missed work.

4. Attendance is required by University policy.

5. The University withdrawal policy is in effect.

6. The final scale will be no higher than A : 90+ average, B : 80-89 average, C : 70-79 average, D : 60-69 average. Plus and minus grades will be used at my discretion. The averages will be based on 4 tests @ 100 points each, and the quiz average @ 100 points.

7. If you are going to miss a test (which will be announced approximately one week in advance), you must have a valid, documentable excuse and notify me in advance, or as soon as reasonable afterward. The make-up will be as soon as possible, generally within a week of the original test date.