

## Spring 2012

**MAD 2104 MW 6:25-7:40 pm**

**Discrete Mathematics**

**Dr. S. Gorman**

**Office:** DM 417B

**Phone:** (305) 348-7099

**Office Hours:**

M 5-6:15pm

W 3-3:45pm; 5-6:15pm

F 3-3:45pm

Other hours by appointment

**E-mail Address:** gormans@fiu.edu

**Text:** Discrete Mathematics by Kenneth Rosen, 7th Edition  
Solution Manual option

**IMPORTANT: Additional time will be given after class for exams. If you are unable to stay later, and we cannot make other arrangements, you may want to drop the course.**

### **Syllabus:**

Important: All exams are based on class lectures and homework problems. Some material is not in the book. If you miss class, it is your responsibility to obtain notes. Nongraphing calculators (only) will be allowed during exams and quizzes.

Sets and Operations on Sets, Relations, Equivalence Relations, Functions, Cardinality,

### **Exam I**

Logic and Arguments, Mathematical Induction & Recursion, Combinatorics, Combinatorial Identities & Binomial Theorem, **Exam II**

Graphs (Directed & Undirected), Isomorphism of Graphs, Paths, Adjacency Matrices, Euler Paths, Four Color Problem, Planar Graphs, Trees, Traversal of Trees, **Exam III**

Boolean Algebras, Disjunctive Normal Form, Minimization of Boolean functions (Karnaugh)

### **FINAL EXAM - Cumulative**

A quiz will be given every Wednesday on homework assigned from the previous week except when an exam is given. The sum of the highest eight quizzes will be equal to one exam score

If the final exam exceeds any of the other exam scores, the final counts double and the lower score drops. **NO MAKE-UPS**

### **Grading Policy**

Average grade is determined by taking sum of 3 exams, I Final Exam and I Quiz grade and dividing by 5.

If average grade is	Final course grade is
90 or above	A
87-89	A-
84-86	B+
80-83	B
77-79	B-
74-76	C+
70-73	C
64-69	D+
60-63	D
Below	F

### **Arts & Sciences Policy on Saving Instructional Records:**

It is the student's responsibility to save all material distributed by the instructor and

1. Make duplicate copies of all papers.
2. Save all examinations and papers that are returned.
3. Raise any questions about grades within 45 days of the date classes begin in the following semester,

### **Arts and Sciences Policy on Cheating:**

Any student suspected of cheating will be brought before the appropriate committee and prosecuted. See student handbook.