

**Math 2320 M**  
**Discrete Mathematical Structures**  
M W F 1:30 V H B

**Course Outline**  
**January 2006**

**Instructor:** A. Premat  
**Telephone:** 736-2100 ext. 33545  
**Office:** TEL 3047  
**Office hours:** Mondays: 2:30-3:30, Wednesdays: 11:30-12:30.

**Prerequisites:** AS/SC/AK/MATH 1190 3.0, or AS/SC/AK/MATH 1090 3.0, or any 2000-level MATH course without the second digit 5.

**Textbook:** Discrete Mathematics and its Applications by Kenneth Rosen, Fifth Edition (McGraw-Hill,2003).

**TENTATIVE SYLLABUS:**

**Chapter 1 Functions** (Textbook Section: 1.8)  
**Chapter 2 Algorithms and their Complexity** (Textbook Sections: 2.1, 2.2 and 2.3)  
**Chapter 3 The Integers** (Textbook Section: 2.4 and some parts of 2.5 and 2.6)  
**Chapter 4 Sequences and Mathematical Induction** (Textbook Sections: 3.2 and 3.3)  
**Chapter 5 Recursion** (Textbook Sections: 3.4, 6.1 and 6.2)  
**Chapter 6 Counting** (Textbook Sections: 4.1, 4.2, 4.3, 4.4 and 4.5)  
**Chapter 7 Graphs and Trees** (Textbook Sections: 8.1, 8.2, 8.3, 8.4 and 9.1)

**Homework:** Homework problems will be assigned, but will NOT be collected for grading.

**Examination dates:** Midterms : Wednesday February 8th, 2006 and  
Wednesday March 22nd, 2006.  
Final Exam: To be announced.

**Grading:** 2 Midterms: 25% each  
Final Exam: 50%

**Important: There will be NO make up midterms.** Missed midterms will be counted as zero, except under extreme circumstances such as illness. In this case the weight of the missed test will be transferred to the final exam.