

MTH 107
Fall 2007

MTH 107

Introduction to Finite Mathematics

Instructor: Francine Clark, 401-608-6221, email: fclark.writer@juno.com

Office Hours: By appointment

Text: D. Datta, *Finite Math for Liberal Arts*, Third Edition

Calculator: Required

Cell Phones: Must be turned off during class

Prerequisite: Basic arithmetic

Topics include statistics, set theory, counting techniques, and probability. The primary goal is to develop an appreciation for mathematics in everyday events. Wherever possible, examples will be given from daily life, current events, etc. Students will be directed to various websites as reference.

Doing well in this course requires some effort on your part: Come to class, read the book, review your notes, do the homework problems, and *ask questions*. The exams will be based on homework problems. Don't be concerned if you don't understand everything. We will devote some class time to addressing any problems you might have and you can feel free to call me, email me, or arrange for time outside of class. There should be no excuse for not clearing up any problems you might have. This class is intended to be enjoyable, not tedious.

Grading and Attendance:

- Three one hour exams: 100 points each
- One mandatory computer project: 100 points
- Attendance: 100 points (see explanation, below)

Attendance is a critical part of your grade. A *documented* absence is one with prior notification or due to a weather emergency. After the fact, a medical or legal document, mechanic's bill, or evidence of a personal or family emergency will suffice. If you know that you will be absent for a legitimate reason, email me about it in advance. **You are allowed 3 undocumented absences without penalty.** The fourth and additional undocumented absences will result in a loss of 10 points per absence from your 100-point attendance credit, i.e., you may lose up to 20% of your grade through nonattendance.

Homework problems will be assigned on a regular basis and students are encouraged to work together on these. Working together on the computer assignment is prohibited.

NOTE: Students who require accommodations and who have documentation from Disability Services (874-2098) should make arrangements with me as soon as possible.

Homework Assignments

Text: Finite Math for Liberal Arts, Third Edition

Author: Dilip Datta

Section	Page	Problems
Chapter 1: Organization and Display of Data		
1.1	5	3, 4, 6
1.2	9	1, 3, 4, 5
1.3	14	1, 2, 4, 8
1.5	22	3, 4, 6, 7
1.6	25	1, 3, 6

Chapter 2: Analysis of Data		
2.1	38	2, 6
2.2	44	1, 2
2.3	48	2, 3, 7, 8
2.4	56	1, 2, 4, 6, 8

Chapter 3: Set Theory		
3.1	73	2, 3, 7
3.2	78	3, 5, 6
3.3	81	1, 4, 5, 6, 9
3.4	85	1, 2, 3, 7
3.5	87	1, 3, 4

Chapter 5: Probability Theory		
5.1	115	2, 5, 6
5.2	118	1-4, 6, 10
5.3	122	1, 2, 6, 8, 11
5.4	127	1, 2, 4, 6

The following will be covered if time permits:

6.1	150	1, 2, 4
4.2	101	2-5, 7
4.3	105	1, 5-7
4.4	109	1-7