DEPARTMENT OF MATHEMATICS, UNIVERSITY OF NOTRE DAME Mathematics 104, Spring 2000

Instructor: Dean Eileen Kolman Office Hours: By appointment

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Text: *Finite Mathematics and Its Applications*, by <u>Goldstein, Schneider and Siegel (5th edition)</u>.

Course Material: On line at: My computer; I drive; coursesp.00; math; math104.01

Course Content:

This particular finite math course will focus primarily on probability and statistics. It will show you how probabilities are calculated and how they can be interpreted in everyday situations from insurance rates to Power Ball games. We will study the methods of statistical analysis and their use in areas such as grade distributions and political polling .

The following topics will be covered:

--Sets which provide language and notation for probability

--Counting Principles which can be applied to computing probabilities

--*Probability*, the mathematics of chance, which allows us to associate probabilities to random events

--*Statistics*, which deals with data: their collection, description, analysis and use in prediction.

Examinations, homework and grades:

There will be three exams and a final (dates listed below). Each exam is worth 100 points. The final exam is a two-hour exam worth 150 points. The final exam will cover all the material of the course. There will also be an additional 50 points from quizzes.

Grades (A, B, C, D and F) will be assigned for each exam based on the numerical scores for that exam. Cutoffs for grades tend to fluctuate from exam to exam, depending on the kind of material that is covered. The course grade (A, A-, B+, B, B-, C+, C, C-, D or F) will be based on the sum of all the exams and quizzes (with 500 points the highest possible).

Homework will be assigned, corrected and graded regularly because it is an integral part of the course. Homework will be given full credit if it is submitted on time and at least 85% of the answers are correct. Late homework and assignments that have fewer than 85% of correct answers will receive partial credit. A student's performance on homework will be used to push up or push down a course grade in the case of borderline grades. Both examinations and homework are conducted under the honor code. While cooperation in doing homework is permitted, copying is not. Calculators will be allowed for homework and examinations.

A student who misses an examination will receive zero points for that exam unless an official excuse is presented. Keep this in mind when you make your travel plans for spring break and for Easter.

Class Attendance:

Attendance will be taken periodically, excessive absence (3 unexcused) will affect your grade, and you may be given an F for more than three unexcused absences. Before assigning the grade of F, one written warning will be given.

Help Sessions:

Collaborative groups, tutoring and workshops are available through the First Year Learning Resource Center. <u>Workshop</u>: **Sunday, 4:30, FLRC**. (No registration required) <u>Collaborative group</u>: **Thursday, 8:30 p.m., FLRC**. (Registration and regular attendance required)

Exam Dates:

Chapter 5: Monday, February 14, 9:35 a.m. Chapter 6: Monday, March 6, 9:35 a.m. Chapter 7: Monday, April 10, 9:35 a.m. Final: Wednesday, May 10, 8 to 10 a.m.