

Math 5v06.06M
Mathematics Preparation
MS in Biotechnology II
Course Syllabus
Summer 2006

Instructor: Dr. Gregory Kramer

Office: ECSN 2.512, phone: 972/883-6031
e-mail: gkramer@utdallas.edu

Office Hours: Tuesdays 3:00 – 4:00 p.m.
and by appointment outside these times

Text: Schaum's Outline of Probability and Statistics, by Murray Spiegel, John Schiller, and Alu Srinivasan, 2nd Edition.

We will cover chapters 1-8 of the text-book. You are expected to take comprehensive lecture notes.

Objective: To provide an understanding and motivation of the fundamental ideas of probability and statistics, skill in using the techniques and facility in calculus, discrete mathematics, differential equations, skill in using the techniques and facility in applying to core courses in Biotechnology II.

Tests: There will be 4 quizzes. Each quiz is worth 25 points.

Homework: Homework problems will be assigned, but not collected or graded. A hand calculator is necessary.

Grading Policy: Your final score will be determined by your final exam (FE), midterm exam (MT) and quizzes (Q) percentage scores according to the following weighting:
45% (FE) + 35% (MT) + 20% (Q)

Grades: A letter grade will be assigned according to the scale as usual:

A: 90 – 100	B: 80 – 89
C: 70 – 79	F: 0 – 69

No D grade will be given in the class.

Math 5v06.06M
Summer 2006

Class Calendar (subject to change)

TR Room FN 2.106 4:00 – 5:30 p.m.

Week	Tu	Topics	R	Topics
1			6/22	Ch. 1. Basic Probability
2	6/27	Ch. 2, 3. Random Variables, Probability Distributions and Math Expectations	Q I. 6/29	Ch. 4. Special Probability Distributions Q II.
3	7/4	Holiday	7/6	Midterm Exam
4	7/11	Ch. 5, 6 Statistics. Sampling Theory and Estimation Theory	7/13	Ch. 7 Tests of Hypotheses Q III.
5	7/18	Ch. 7 Tests of Hypotheses	7/20	Ch. 8 Regression and Correlation. Q IV.
6	7/25	Markov Models	7/27	Review for the Final Exam.

Final Exam: Monday, July, 31, at 4:00 p.m.