

New Course:
Biostatistics
Math 4397 (30590)
Fall 2009

Instructor: Dr. Bernhard Bodmann

Prerequisites

MATH 1432 (Calculus II) and
MATH 2311 (Intro. to Probability & Stats) or equivalent.

Text

Bernard Rosner, "Fundamentals of Biostatistics",
6th edition, Thomson Brooks/Cole, 2006.

Description

The goal of this course is to explore the subject of biostatistics in an intuitive, but mathematically sound manner. The students will learn about a variety of uses, and abuses, of statistical methods in biology and medicine. The material will be interspersed with simple programming projects and experiments, which allows the students to become familiar with R, the open-source software package used in these projects.

The first part of the course is a rapid review of essentials in probability and statistics. The main part of the material focuses on typical estimation problems and hypothesis testing applied to data sets from population, molecular and physiological biology.

For more information, please visit the instructor's website at:
<http://www.math.uh.edu/~bgb>