

STAT 6200 — Introduction to Biostatistics
Course Syllabus – Fall 2004

Instructor: Dan Hall

Office Hours: Tuesday and Thursday:10:00–11:00AM, and by appointment

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Teaching Assistant: Desale Habtzghi

Office Hours: Tuesdays, 1:00–2:00PM, and Wednesdays, 11:00AM-Noon

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Lecture Hours: Tuesdays and Thursdays, Period 6 (3:30–4:45), Room 240, Poultry Science Bldg.

Lab Hours: Occasional Tuesdays and Thursdays, Period 6, Statistics Bldg., Room 307

Prerequisite: None

Required Text (Campus Bookstore):

Pagano, M. and Gauvreau, K. (2000). *Principles of Biostatistics, Second Edition*. Duxbury.
(Available at University Bookstore.)

Reserved Texts (Science Library):

Rosner, B. (1995). *Fundamentals of Biostatistics, Fourth Edition*.

Fisher, L. and van Belle, G. (1993). *Biostatistics: A Methodology for the Health Sciences*.

- Note that the Fisher and van Belle book is available as an electronic book available through GALILEO. Just go to <http://gil.uga.edu> and then search for Fisher, Lloyd by author. You'll find a link to the electronic version of this book. Follow the links.

Evaluation:

Grades will be based on homework (25%), labs (5%), two midterms (20% each), and a final (30%).

Web Page:

I will post copies of homework and lab assignments, homework and lab solutions, lecture notes, this syllabus, etc. on the world wide web. The address (url) for this material is <http://www.stat.uga.edu/~dhall/STAT6200.html>. I will generally hand out all material in class, but if you miss something, check the web page instead of asking me if I have extra copies. I will continuously update the web page throughout the term, so check back often.

(OVER)

Course Topics:

- Descriptive statistics
- Rates, standardization and life tables
- Elementary probability theory and probability distributions
- One and two sample inference (confidence intervals and hypothesis tests) on means and proportions
- Simple nonparametric methods
- Statistical methods for 2×2 contingency tables
- Correlation and simple linear regression

Homework and Labs:

You will have regular homework assignments this term, each of which will be due approximately 1.5 weeks from when it is assigned. In addition, you will have (approximately) weekly labs. After the first lab, you will be responsible for completing the labs on your own, outside of class. The idea behind the labs is to allow you practice implementing the methods that we discuss in lecture and to provide further examples beyond those we discuss in class. We will use the statistical software Minitab as our primary analysis tool, and the labs will give you practice using this software in a Windows environment. Minitab is available in the Department of Statistics' computer lab in room 307, Statistics Building. I will introduce you to this lab early in the course and you may use the lab to gain access to Minitab. Alternatively, you may rent or purchase Minitab and install it on your own PC. Details about this can be found at <http://www.e-academy.com/minitab>.

Homeworks and labs are due in class or by 4:30PM on the announced due date, and may be turned in by leaving them in my or the T.A.'s mailbox in the statistics building if they are not turned in during class. **No late homeworks or labs will be accepted!** One of the reasons for this policy is that I will provide solutions for the homeworks (and some labs) shortly after they have been turned in. I will drop one of your labs (the worst one or one that you didn't complete) in forming your lab grade. No homeworks will be dropped.

E-mail:

I will utilize e-mail to contact you fairly often. Therefore **it is important that you provide me with a correct e-mail address** and that you check your e-mail regularly. I encourage you to contact me via e-mail if you have a simple question that does not require an office hours visit.