Syllabus
Introduction to SAS Statistical Package
140.632 – Fourth Term 2004

Course Objective:

Through this course, the student will become an adept user of the SAS statistical package, mastering the skills needed for effective data management, data manipulation, and data analysis. The student will learn how to document his or her work, and make the work replicable. Graphical techniques for displaying data will be discussed. While this course will use the SAS statistical package exclusively, much of the technical knowledge and some of the computing techniques covered in this course will be applicable to any statistical package.

Instructors:

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Teaching Assistants:

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TA office hours will be Tuesday/Thursday, 12:30 – 1:30 in W3017

Class e-mail:  sas@jhsph.edu

Lecture/Lab:

Our lectures will be held on Tuesdays from 1:30- 2:50 p.m. in W3030.

Labs will be held in W3017. Each student is required to sign up for one lab out of the following times:

- Wednesday  1:30 – 2:50 p.m.
- Thursday  1:30 – 2:50 p.m.
- Friday  1:30 – 2:50 p.m. (if needed)

Please send an e-mail with your preferred lab time as soon as possible to sas@jhsph.edu. These labs are in the computer lab and there is limited space. Please attend the lab that you are assigned.

Handouts:
The lecture slides and lab exercises will be available at our course website:

http://www.biostat.jhsph.edu/bstcourse/bio632/default.htm
Other References:

- SAS online documentation (under HELP menu, Books and Training or Program menu, under The SAS System)
- SAS online tutor (under HELP menu, Books and Training)
- SAS system help
- Many, many SAS manuals
- SAS website: www.sas.com

Grading:

The course grade will be based upon the lab exercises and a final exam:

Lab Exercises: 60%
Final Exam: 40%  (MANDATORY – Take Home)

Lab Exercises:

Each week you will have an exercise to complete during your scheduled lab. At the end of the lab, you must submit your SAS program and log files electronically to our class email account sas@jhsph.edu. The lab exercise will be due by 5:00 p.m. on Tuesday of the following week. Please follow the instructions in the lab exercise and only submit the items specified. The subject of the email should be as follows: “Lab exercise X, Your name”. Submit your lab materials even if you have not completed the entire exercise. The labs will be graded as either a satisfactory or unsatisfactory. The grade and any additional comments will be transmitted via an email message. If you receive an unsatisfactory on the lab exercise, you may re-submit the materials for full credit. If you are resubmitting lab materials, the subject of the email should be as follows: “Redo: Lab exercise X, Your name”.

Tentative Topic Schedule:

Lecture 1: Introduction to SAS, introduction to SAS datasets and libraries.
Lecture 2: DATA Step functions: Set statement, creating new variables, and If-Then statements.
Lecture 3: Merging data, Put and Output statements, Arrays and Loops
Lecture 4: SAS Procedures including: Freq, Univariate, Reg and GLM
Lecture 5: SAS Procedures including: Genmod, Lifetest, and PHReg
Lecture 6: SAS Graph
Lecture 7: Special Topics
Lecture 8: Final exam, due May 13th (tentative)