

MA 116 (Summer II, 2004)

Text: - Statistics by Michael Sullivan, *III*.

Topics to be covered:- Revision of the Confidence interval procedures and hypothesis testing (Stress on Type I and Type II Errors and Power Functions with application to SAS) from chapters 8 and 9 (About 1 Week). After that we will cover two-sample inference for normal means and Binomial Probabilities.(chapter 10, about $\frac{1}{2}$ week). Introduce Chi-Square Goodness of Fit Test and Contingency Table with SAS application (About a week). ANOVA and Regression Analysis (Chapter 12, about 3 Weeks $\bar{X}$ with lots of SAS applications). Nonparametric tests (chapter13, $\frac{1}{2}$ -1 week).

Home works, Quizzes, Exams:- Home works will be assigned twice a week, and it will be posted in my web page. I will not collect Home works. But based on the homework problems we will have one Quiz every week(Total of 4 quizzes).

I will expect every one to learn SAS as in your home work problems and in assignments I will assign SAS problems. SAS is very useful software for Statistics and has a tremendous market value. So it will benefit all of you to learn SAS. At the end of the summer II we will have a Final Exam which is cumulative.

Something New and interesting:- I will introduce Extra Credit Problem, once a week. It will be like a Pop up Quiz. They will be relatively hard. To raise your grade you can try to solve them. Remember that they are not compulsory. Also no partial credits will be given. Each extra credit Quiz will count 2 points towards your final grade. As an example suppose you have an overall 85(B) in the assignments and the exams and suppose you scored 8 in the Extra Credit Quizzes, then your final score will be 93(A or A-).

Distribution of Points :- Each Quiz will be 15% percent of the total grade. Final exam will be 40% of the total grade.

Downloading Homeworks:- You have to download the homework and start working on them ASAP. My web address is <http://math.bu.edu/people/pseal>

Make-up Exams:- I have an absolutely firm policy of not giving makeup exams. If you miss an exam , then you must provide an acceptable , 1 written excuse for your absence or you will receive a grade 0. A valid reason for missing an exam would be something serious like illness(not a slight cold) or a family emergency. Neither poor preparation nor sleeping through an exam are acceptable. If possible (particularly if you want to be sure that your excuse is an acceptable one), contact me before missing an exam.

Academic Conduct:- Your work and conduct in this course are governed by the CAS Academic Conduct Code. This code is designed to promote high standards of academic honesty and integrity as well as fairness. Copies of the code are available in CAS Room 105, and it is your responsibility to know and follow the provisions of that code. In particular, all work that you submit in this course must be your original work. For example, the computations that you do for your group projects as well as the text of your reports must be original to your group, and all group members are responsible for all aspects of the group projects. Any cases of suspected academic misconduct will be referred to the CAS Student Academic Conduct Committee. **Use of cell phones will be prohibited during the exam and also Scientific Graphical Calculators are not allowed during the exam. Simple calculators are allowed.**

Attendance:- Summer courses are very short. I recommend all of you to attend all classes. Quizzes and Exams will be based on the material that I will teach in the class.

Office hours, Phone. Number and email:- Office: MCS 256 Office
Hours: M-1 pm to 2 pm. R - 1 pm to 2pm. Office Phone: 353 - 5287.
Email: pseal@math.bu.edu. I prefer emails than phone calls . So please
mail me if you have questions regarding the course. Thanks!