MATH 4607/6607: Intro SAS Programming

(Dunn Hall 207, F 2:00 pm-5:00 pm)

Instructor: Su Chen
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Office: Dunn Hall 384 (Work Phone: 901-678-1145)
Office Hours: MW 1:00 pm-2:00 pm or by appointment.
Prerequisite: Introductory statistics
Required Textbooks: There is no required book and handouts will be provided. To access the handouts for the course, you will need to use the E-Courseware system: https://elearn.memphis.edu/. Please bring the handouts to the class.

Course Objectives: In this class you will learn some of the basics of SAS programming with applications to statistical procedures. You will also learn some data set creation and management techniques. This is an introductory course only. Some students will want to take this course to complement the statistics courses on their schedules. Others are interested in obtaining a Certification in Base SAS Programming by successfully completing an exam offered by SAS Institute. This course will help students prepare for the Base SAS Certification Exam, however, it is not feasible to include all of topics covered on that exam. The goal of the course is not to teach the students everything they ever want to know about SAS to perform a rigorous analysis, but to achieve a familiarity and comfort level with SAS.

Course Topics: This course requires that you have some knowledge of statistical methods. This is not an advanced programming class but merely an introduction to a very useful statistical package. The following list of SAS topics will be covered in this course. Other topics may be added as necessary.

- DATA step applications: INPUT, INFILE, transformation, DO-END loop
- TITLE, FOOTNOTE statements
- SAS Library and Permanent SAS Data Tables
- DATA step Information: LABEL, MERGE, SET statement
- PROC PRINT
- PROC UNIVARIATE, PROC MEANS, PROC SORT
- PROC IMPORT
- PROC PLOT, PROC CHART
- PROC FREQ, PROC TABULATE
- PROC REG, PROC GLM, PROC CORR
- PROC NPAR1WAY

Homework/Quizzes: Homework assignments will be given weekly during each lecture. You must finish your assignments in class and turn in a copy of your program(s) and the output generated by the program(s), and any written conclusions you make before the end of each class. In each assignment, you have an option of taking one problem home and turn in by the end of the next day to the Dropbox in the E-courseware system. The lowest three homework assignments can be dropped.

Exam: There will be 2 in-class exams in total: one mid-term and one final exam.

Grading Policy: Both undergraduate and graduate students are enrolled in this class. The criteria are different for the two groups of possible enrollees.

Graduate Students		Undergraduate Students	
90% +	A	85% +	A
80% +	B	75% +	B
70% +	C	65% +	C
60%+	D	55%+	D
<60%	F	<55%	F

Grades will be calculated according to the following percentages:

Homework/Quizzes: 35%

Midterm Exam: 30%

Final Exam: 35%

Make-up Policy: No make-ups will be given without written evidence of an official University excused absence. (See University Student Rules.) If no such notice is given, the rights to a make-up are forfeited. In addition (and also in accordance with University Student Rules), a written excuse must be presented upon return to class. Specifically, in the case of illness or injury, students are required to obtain a confirmation note from a health care professional affirming date and time of a medical office visit regarding the illness or injury.

Attendance: It is one lecture per week and thus I STRONGLY suggest that you make every attempt to not miss a single day of lecture. Assignments will be provided in hard copy in class. Falling behind in this course can be very detrimental to your grade.