

Syllabus

PUBH 690.960 Special Topics, Introduction to Enterprise SAS for Public Health

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Course Description

The Introduction to Enterprise SAS for Public Health is designed to help public health students get started with SAS Enterprise Guide. Students will learn about using SAS procedures to assist them with data management, creating datasets, importing data, generating reports, producing graphs, working with SAS projects, and basic statistical analysis.

Course Materials

The Little SAS Book for Enterprise Guide 3.0
By Susan J. Slaughter and Lora D. Delwiche (2005)
(Required)

Statistics for People Who (Think They) Hate
Statistics, Excel Version
Neil J. Salkind (2006)
(Recommended) The SAS you obtained from UNC has a limited use agreement. **Please review the licensing agreement with UNC.** Excel is another option to consider as you move into managing and analyzing data.

Website:

<http://blackboard.unc.edu>

PUBH 690.960 (Special Topics)

The class website on Bb is where you can access course materials and upload assignments.

Learning Objectives:

1. Enter data using SAS
2. Import data using SAS
3. Create reports using SAS
4. Generate graphs using SAS
5. Produce descriptive statistics using SAS (descriptive statistics)

6. Use SAS procedures to explore relationships between variables in a SAS data set (correlational analysis)
7. Use SAS procedures to determine if relationships between variables in a SAS data set are significant (inferential statistics)

Course Calendar

Recommended Dates:

Lesson 1	Tutorials A & B Slaughter & Delwiche text	Upload project to Bb Class Discussion Board site	Oct. 1, 2006	10 points
Lesson 2	Tutorials C, D, & E, Slaughter & Delwiche text	Upload project to Bb Class Discussion Board site	Oct. 14, 2006	15 points
Lesson 3	Data Management & Descriptive Statistics, Bb PUBH 690.960 site	Post assignment to Bb Class Discussion Board site	Oct. 31, 2006	20 points
Lesson 4	Correlation Analysis and Hypothesis Testing- Analysis Bb PUBH 690.960 site	Post assignment to Bb Class Discussion Board site	Nov. 17, 2006	30 points
Lesson 5	Producing Reports, Bb PUBH 690.960 site	Post assignment to Bb Class Discussion Board site	Dec. 5, 2006	25 points

Lesson 1 and 2

Read the Tutorials Section of *The Little SAS Book for Enterprise Guide 3.0*, including sections A, B, C, D and E. Complete the Tutorials at the end of each section and post your work to the class discussion board by Oct. 14, 2006. There is some flexibility with the assignment due date. Email me if you need an extension.

Lesson 3 – Descriptive Statistics and SAS

Lecture – Looking at the data with graphs and measures of central tendency and dispersion

Readings: Chapter 8 & 9, *The Little SAS Book for Enterprise Guide 3.0*.

Assignment:

Select a data set or use one of the data sets available on the Bb class site under Course Materials. Create a SAS project that describes this data set by using graphs and measures of central tendency and dispersion. Prepare a narrative that summarizes your findings (3-5 pages, 1.5 line spacing, and 10-12 font size) and incorporates the results of your SAS project. Refer to the lesson section on recommended reporting of analysis results in a table format.

Lesson 4 – Correlation Analysis and Hypothesis Testing

Lecture - Using correlation analysis and linear regression in SAS

Readings: Chapter 8, *The Little SAS Book for Enterprise Guide 3.0*

Assignment

Using the same data set from Lesson 3,

- a) Propose a null hypothesis to test.
- b) Determine which continuous variables are correlated.
- c) Construct a model and test how well the independent variables predict the dependent variable.

Lesson 5 – Reporting Results

Readings: Chapter 9 & 10

Assignment – Reformatting your output from SAS, report on the results of your analysis from Lesson 4 and merge this with your descriptive report from Lesson 3.