

PHR w390J - DATA ANALYSIS
Summer 2016
Unique # 90130
Wednesdays 9A-12N
PHR 2.208

Instructors

Ken Lawson, Ph.D. (Coordinator)	471-5609	ken.lawson@austin.utexas.edu
Jamie Barner, Ph.D.	471-5612	jbarner@austin.utexas.edu
Karen Rascati, Ph.D.	471-1637	krascati@austin.utexas.edu

Course Overview

This course is designed to teach students the use of SAS and Stata for Windows statistical analysis software. The course will cover data coding, data management, choice of appropriate statistical procedures, procedure commands for SAS and Stata, and interpretation and reporting of results. In addition, it will cover construction of tables and graphs for appropriate and effective display and dissemination of results.

Materials

Handouts distributed in class or accessible through Canvas.

Optional:

Acock AC, *A Gentle Introduction to Stata*, 4th edition, College Station: Stata Press, 2014.

Juul S and Frydenberg M, *An Introduction to Stata for Health Researchers*, 4th edition, College Station: Stata Press, 2014.

Stata on-line documentation: <http://www.stata.com/features/documentation>

Evaluation

Students will be evaluated on their performance on a variety of homework assignments and a data analysis project. Points are allocated as follows:

Coding	50
SAS Homework	100
Stata Homework	100
Table/Graph Construction	50
Data Analysis Project	<u>200</u>
TOTAL	500

Homework assignments will consist of exercises over material covered in class or assigned readings. Specific information and due dates for homework assignments will be given by the instructor responsible for that topic. Grades for late homework assignments will be reduced by 10% unless specific arrangements have been made with the instructor in advance of the due date.

By class time on July 13, 2016 each student should ask one of the instructors (Drs. Barner, Lawson, or Rascati) to give him/her a data analysis project. Typically, the instructor will give the student a dataset and a series of questions to answer about the dataset using statistical analyses.

Course Grades

Letter Grade	Course Average (Percent)	Grade Points
A	93% - 100%	4.0
A-	90% - 92%	3.67
B+	87% - 89%	3.33
B	83% - 86%	3.0
B-	80% - 82%	2.67
C+	77% - 79%	2.33
C	73% - 76%	2.0
C-	70% - 72%	1.67

Schedule

#	Date	Topic	Assigned	Due	Instructor
1	June 8	Course Introduction Data Coding / SAS	Coding HW1		Lawson Barner / Rascati
2	June 15	SAS (End at 11:30a for EC meeting)	SAS HW1	Coding HW1	Barner / Rascati
3	June 22	SAS		SAS HW1	Barner / Rascati
4	June 29	SAS	SAS HW2		Barner / Rascati
5	July 6	Writing SAS Macros		SAS HW2	Barner / Rascati
6	July 13	Stata Last Day for Assignment of Data Analysis Project	Stata HW1		Lawson / Rascati
7	July 20	Stata	Stata HW2	Stata HW1	Lawson / Rascati
8	July 27	Stata	Stata HW3	Stata HW2	Lawson / Rascati
9	Aug 3	Table / Graph Construction		Stata HW3	Lawson
10	Aug 10	Table / Graph Construction Course Wrap-up Course / Instructor Evaluation		Table/Graph HW1 Data Analysis Project	Lawson Lawson / Barner

All class meetings will be held on Wednesdays from 9A to 12N in PHR 2.208 unless changes occur during the semester.

Course lectures/demonstrations will be recorded and available through Canvas.

Scholastic Integrity

University policies on scholastic dishonesty are strictly enforced.

Any student suspected of dishonesty will be reported to the Dean of the Graduate School and to the Dean of Students, as per University regulations. Students are expected to have read and to understand what constitutes scholastic dishonesty and the relevant procedures as published in the current issue of the General Information Catalog. Please refer to the Student Judicial Services website (<http://www.utexas.edu/depts/dos/sjs/>) for the official University policies and procedures on scholastic dishonesty.

Students are expected to complete the homework assignments and the Data Analysis Project independently. Do not seek help from anyone other than the relevant instructors on these assignments.

Academic Accommodations

“The University of Texas at Austin provides upon request appropriate academic accommodations for qualified students with disabilities.” All University rules concerning accommodations must be followed. For more information, contact the Office of the Dean of Students at 471-6259 (471-4641 TTY).

Religious Holy Days

According to UT Austin policy, you must notify the course coordinator of your pending absence at least fourteen days prior to the date of observance of a religious holy day. If you must miss a class, an examination, a work assignment, or a project in order to observe a religious holy day, you will be given an opportunity to complete the missed work within a reasonable time after the absence.

Behavior Concerns Advice Line (BCAL)

If you are worried about someone who is acting differently, you may use the Behavior Concerns Advice Line to discuss by phone your concerns about another individual's behavior. This service is provided through a partnership among the Office of the Dean of Students, the Counseling and Mental Health Center (CMHC), the Employee Assistance Program (EAP), and The University of Texas Police Department (UTPD). Call 512-232-5050 or visit <http://www.utexas.edu/safety/bcal>.