

ADVANCED RESEARCH METHODS IN HEALTH CARE
SPRING 2017 PGS 390U -Unique #59143
Mondays and Wednesdays 1-2:15p in PHR 2.214

SYLLABUS

Instructors:

Jamie C. Barner, Ph.D. (Coordinator)	PHR 3.210D	471-5612	ibarner@austin.utexas.edu
Carolyn M. Brown, Ph.D.	PHR 3.209D	471-2374	cmbrown@austin.utexas.edu
Kentya Ford, Dr. P.H.	PHR 3.210C	471-5604	kentya.ford@austin.utexas.edu
Tyler Gums, Pharm.D., M.S.	PHR 3.210B	471-6924	tyler@austin.utexas.edu
Kenneth A. Lawson, Ph.D.	PHR 3.209C	471-5609	ken.lawson@austin.utexas.edu
Leticia Moczygemba, Pharm.D., Ph.D.	PHR 3.208G	232-6880	lmoczygemba@austin.utexas.edu
Karen L. Rascati, Ph.D.	PHR 3.209A	471-1637	krascati@austin.utexas.edu
Jim Wilson, Pharm.D., Ph.D.	PHR 3.210A	471-6978	James.Wilson@austin.utexas.edu

Overview:

This course provides advanced methodologies utilized in health outcomes research. It builds upon the introductory research design course and explores more in depth concepts, data management issues and statistical procedures. Emphasis will be given to the application of research methodology concepts and principles. PHR 390K (Experimental Design and Research Methods in Health Care) is a prerequisite for this course.

Required Materials:

Class handouts will be used.

Evaluation:

The course will be team taught and grading will consist of assignments and projects.

Grades will be assigned as follows:

93% - 100%	A	87% - 89%	B+	77% - 79%	C+
90% - 92%	A-	83% - 86%	B	73% - 76%	C
		80% - 82%	B-	70% - 72%	C-

Faculty	Assignment(s) Weight
Barner	40%
Brown	9%
Ford	9%
Gums	6%
Lawson	12%
Moczygemba	6%
Rascati	12%
Wilson	6%
Total	100%

Note: 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.

Schedule:

PHR 2.214		PGS 390U-Advanced Research Methods MW 1-2:15	
Week	Date	Topic	Faculty
1	1/18	Self-Report Adherence	Barner
2	1/23	Adherence Measurement (Database)	Barner
	1/25	Adherence Measurement (Database)	Barner
3	1/30	Adherence Measurement (SAS)	Barner
	2/1	Adherence Measurement (SAS)	Barner
4	2/6	Logistic Regression	Barner
	2/8	Network Meta-Analysis	Barner
5	2/13	Network Meta-Analysis	Barner
	2/15	Survival Analysis	Wilson
6	2/20	Difference in Difference	Wilson
	2/22	General Linear Models	Lawson
7	2/27	Zero-Inflated Regression	Lawson
	3/1	Propensity Scoring	Lawson
8	3/6	Propensity Scoring	Lawson
	3/8	Disease Registries	Sasane
9	3/13	<i>Spring Break-No Class</i>	
	3/15		
10	3/20	Focus Group /Qualitative Data Analysis	Brown
	3/22	Focus Group /Qualitative Data Analysis	Brown
11	3/27	Focus Group /Qualitative Data Analysis	Brown
	3/29	Program Evaluation	Moczygemba
12	4/3	Science of Quality Improvement in Healthcare	Moczygemba
	4/5	Cluster Randomized Trials	Gums
13	4/10	NIH Funding/Grant Review Process	Gums
	4/12	Advanced Pharmacoeconomics	Rascati
14	4/17	Advanced Pharmacoeconomics	Rascati
	4/19	Modeling/Time Series Analysis	Rascati
15	4/24	Modeling/Time Series Analysis	Rascati
	4/26	Culture and Health Disparities	Ford
16	5/1	Culturally-linked Health Measures	Ford
	5/3	Critique of Health Cultural Measures	Ford

ACADEMIC INTEGRITY STATEMENT

"Pharmacy practitioners enjoy a special trust and authority based upon the profession's commitment to a code of ethical behavior in its management of client affairs. The inculcation of a sense of responsible professional behavior is a critical component of professional education, and high standards of ethical conduct are expected of pharmacy students [both PharmD and graduate students-kl]. Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties including failure of the course involved and dismissal from the college and/or the University. Since dishonesty harms the individual, fellow students, and the integrity of the University and the College of Pharmacy, policies on scholastic dishonesty are strictly enforced."

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.

EMERGENCY PROCEDURES ([utexas.edu/emergency](http://www.utexas.edu/emergency))

- Occupants of buildings on The University of Texas at Austin campus are required to evacuate buildings when a fire alarm is activated or an official announcement is given.
- Evacuation procedures require orderly exiting and assembly outside.
- Familiarize yourself with all exit doors of each classroom and building you may occupy. Remember that the nearest exit door may not be the one you used when entering the building.
- Students requiring assistance in evacuation shall inform their instructor in writing during the first week of class.
- During an evacuation — follow the instructions of faculty or class instructors.
- Do not re-enter a building unless given instructions by the following: Austin Fire Department, The University of Texas at Austin POLICE Department, or the Fire Prevention Services.

Campus Carry

Students should familiarize themselves with the information provided by the University regarding the implementation of "Campus Carry" legislation. You will find an information sheet specifically for students (as well as sheets for parents, visitors, faculty, and staff) at <http://campuscarry.utexas.edu/info-sheets>."

Lockdown

The directive "Lockdown" is used to protect occupants in proximity of an immediate threat by limiting access to buildings and rooms. If no specific locations are given, all buildings should initiate lockdown procedures. Should you discover that there is a violent or potentially violent person in your building or area, **DO NOT CONFRONT THE PERSON UNLESS THERE IS NO OTHER OPTION TO SAVE YOUR LIFE.**

Shelter-In-Place

For weather:

1. Go to the lowest level of the building if possible.
2. Stay away from the windows.
3. Go to interior hallways and rooms.
4. Use arms to protect head and neck in a "drop and tuck" position.
5. Monitor emergency communications for specific instructions (www.utexas.edu/emergency).

For environmental incidents (chemical, biological, or radiological releases):

1. Go inside the nearest building.
2. Close all doors, windows, and other inlets from the outside.
3. Shut down the fresh air intake or HVAC system if possible.
4. Monitor emergency communications for specific instructions (www.utexas.edu/emergency).

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, including the student arranging for special accommodations **prior to each examination**. In the absence of such prearrangement, the instructors will assume that the student is not requesting special accommodations for that exam, and the student will be expected to take the exam with the rest of the class at the regularly schedule time and location. 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>.

COUNSELING AND MENTAL HEALTH CENTER

The Counseling and Mental Health Center (CMHC) provides counseling, psychiatric, consultation, and prevention services that facilitate students' academic and life goals and enhance their personal growth and well-being. <http://cmhc.utexas.edu/>