



THE UNIVERSITY OF ARIZONA

Mel & Enid Zuckerman
College of Public Health

**Mel and Enid Zuckerman College of Public Health
University of Arizona**

HPS 620B Advanced Research Methods in Health Promotion Sciences II

Catalog Description: This doctoral-level modular course advances knowledge and skills in public health research and evaluation methods. Students learn research skills through the development of a research project following guidelines set by the National Institute of Health. This course represents a continuation of research design and conduct principles. In addition, students will learn important considerations in the ethical conduct of human subjects research and logistics of grants management and budgeting. Significant class time will be spent on the application of research concepts, including power analysis, statistical design, grantsmanship, and peer review. (3 units)

Course Topics:

- Formulating a review question
- Developing a protocol for a SR
- Searching Screening and Selecting Studies
- Quality assessment and data extraction
- Statistical Methods
- Summarizing the body of evidence
- Grant Writing

Course Objectives: During this course, students will:

- Define a research gap and conduct a systematic review of the literature.
- Develop a problem statement into a fundable proposal.

Learning Outcomes (Competencies Obtained): Upon completion of this course students will be able to:

1. Apply and integrate appropriate measures of maternal and child health with behavior change theory into a study design for research study or a program evaluation
2. Demonstrate the ability to use MCH knowledge to develop and advocate for an MCH policy or program
3. Create a plan to use community-based participatory research (CBPR) to develop an MCH project