



THE UNIVERSITY OF ARIZONA

Mel & Enid Zuckerman  
College of Public Health

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

**HPS 620A Advanced Research Methods in Health Promotion Sciences I**

**Catalog Description:** This modular course provides an opportunity for doctoral level students to advance their understanding and skills in public health research and evaluation methods. The course is structured to guide students through the development of their own research project following guidelines set by federal funding agencies. This course covers priority setting, conceptual modelling, behavior change theory and intervention, research design and evaluation, and survey and measurement. (3 units)

**Course Topics:**

- Selection of Research Question
- Theory and Intervention
- Mixed Methods Design
- Quasi-Experimental Design
- Randomized Controlled Trial Methodology
- Research Design Review and Summary
- Measurement
- Ethics

**Course Objectives:** During this course, students will:

- Conceptualize a health-related project from the initial phase of project formulation incorporating a conceptual model and a theoretical framework.
- Develop skills in key components of project planning and evaluation with particular reference research design, survey and measurement.
- Demonstrate essential skills in communication including scientific writing and oral presentation.

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

1. Articulate the importance for using multiple methodologies in the study of a health behavior health promotion
2. Utilize complex theories of health behavior health promotion that express multiple levels of causal factors or mechanisms for health promotion intervention
3. Apply theories, frameworks, methods or paradigms to conduct health behavior health promotion research
4. 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