



THE UNIVERSITY OF ARIZONA

## Mel & Enid Zuckerman College of Public Health

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

#### EPID 615 Cancer Epidemiology and Prevention

**Catalog Description:** An overview of the current issues and methods in cancer epidemiological studies. Issues and methods used in cancer surveillance, international studies, observational studies, and intervention trials will be covered. (3 units)

**Course Topics:**

- Cancer Statistics: SEER and ACS
- Cancer Biology
- Cancer Disparities
- Cancer Registries
- Cancer Screening
- Skin Cancer
- Infectious Causes of Cancer

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

- Describe cancer as a public health problem in terms of magnitude, person, time, and place.
- Explain the basic concepts in cancer epidemiology, including study design and analytical methods used in the study of exposure-cancer associations.
- Evaluate the strengths and limitations of different cancer studies using epidemiological principles to consider bias.
- Formulate an opinion for or against an exposure-cancer hypothesis by evaluating existing published literature on the topic.

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

1. Search, describe and summarize findings from the scientific literature to describe the epidemiology of a public health problem, identify health disparities and identify risk factors
2. Critique & synthesize appropriate literature & research findings to address a research question
3. Describe public health surveillance systems and their underlying data sources
4. Organize and deliver clear presentations of research findings in varying professional formats to diverse audiences
5. Evaluate the integrity, comparability, and limitations of data to make inferences related to analyses and results
6. Organize and deliver clear presentations of research findings in varying professional formats to diverse audiences