



Course Name: Research Methods for the Health Sciences

Course Number: BIO* E290

Credits: 3

Catalog description: An introduction to both qualitative and quantitative research methodology. A variety of processes, evaluation techniques and data resources are used to examine the purpose of research, identify and critique scholarly writing, and apply critical thinking and research findings to the health science field. 3 hours lecture per week.

Prerequisite: MAT* 167 or equivalent (or with instructor permission)

Corequisite, or Parallel: none

General Education Competencies Satisfied:

HCC General Education Requirement Designated Competency Attribute Code(s):

None

Additional CSCU General Education Requirements for CSCU Transfer Degree Programs:

None

Embedded Competency(ies):

None

Discipline-Specific Attribute Code(s):

SCI Science elective

Course objectives:

General Education Goals and Outcomes:

None

Course Specific Objectives:

1. Identify and critically review scholarly writing applicable to health sciences.
2. Demonstrate knowledge of the scientific method and ethical research processes.



3. Understand the relationship between qualitative and quantitative data analysis and interpretation.
4. Recognize and demonstrate comprehension of data collection techniques and sampling designs.
5. Translate research findings into application regarding the health science profession

Course Content:

- I. Overview of Research in the Health Sciences
- II. Research Problems/Hypotheses/Variables
- III. Critical Review of Research Literature
- IV. Consideration of Ethics in Research
- V. Theoretical Frameworks
- VI. Sampling Techniques and Data Collection
- VII. Qualitative Research Designs and Data Analysis
- VIII. Quantitative Research Designs and Data Analysis
- IX. Analytical Epidemiologic Studies
- X. Research Dissemination and Utilization

Date Course Created:

Date of Last Revision: 09/18/2017