

# HSCC 470 Research Methods and Data Analysis in Health Sciences

## Writing the Research Proposal

HSCC 470 Research Proposal



1

---

---

---

---

---

---

---

---

## Unit Objectives

**Upon completion of this unit, the student will be able to:**

- List the purposes for writing the research proposal.
- Identify the components of the research proposal.
- Conduct a literature review.
- Develop a budget for conducting the study.

HSCC 470 Research Proposal

2



---

---

---

---

---

---

---

---

## Purpose of the Research Proposal

- Establish the context for your study and demonstrate a need for it
- Show that your study will meet the need, using the methods your propose
- Give assurances that your study will not harm its subjects
- Serve as a “game plan” for conducting your study
- Justify the funding required to conduct the study

HSCC 470 Research Proposal

3



---

---

---

---

---

---

---

---

## Components of the Proposal

- **Introduction**
- **Literature Review**
- **Methods**
- **Analysis Plan**
- **Budget**

---

---

---

---

---

---

---

---

## Introduction

- Delineate the problem, question, or theory to be tested
- Discuss (briefly) the most relevant work done on the subject
- Present the need for further work
- State the purpose of the study

---

---

---

---

---

---

---

---

## Literature Review

- Describe the problem or question you seek to solve
- Describe previous work
- Describe gaps and shortcomings in previous work

---

---

---

---

---

---

---

---

## Methods

- **Design of the study**

- Overview

- Include schematic of design

R   O<sub>1</sub>   X   O<sub>2</sub>

- Research questions or hypotheses

---

---

---

---

---

---

---

---

## Methods continued

- **Setting and sample**

- Setting
  - Population
  - Sampling procedure
  - Sample size
  - Methods for assigning groups
  - Consent procedures

---

---

---

---

---

---

---

---

## Methods continued

- **Data Collection**

- Variables definitions
  - Measurement of variables

---

---

---

---

---

---

---

---

## Methods continued

- **Data Analysis**

---

---

---

---

---

---

---

---

## Methods continued

- **Budget**
  - Salary
    - FICA
    - Benefits
    - Employer tax
    - Retirement
    - Unemployment
  - Equipment
    - Maintenance
  - Travel
  - Telephone
  - Supplies
  - Indirect Costs

---

---

---

---

---

---

---

---