



BAKER COLLEGE
STUDENT LEARNING OUTCOMES

EDL8050 Research Methods
4 Semester Credit Hours

Student Learning Outcomes and Enabling Objectives

1. Summarize the foundations of research.
 - a. Review the epistemological foundations of research.
 - b. Describe the importance of educational research.
 - c. Describe the six steps in the research process.
 - d. Identify the characteristics of quantitative and qualitative research.
 - e. Identify research designs associated with quantitative and qualitative research.
2. Complete research ethics training.
 - a. Demonstrate proficiency in the CITI ethics basic training course.
3. Recognize the role of a research problem.
 - a. Define a research problem.
 - b. Explain the importance of a research problem in a study.
 - c. Identify criteria for deciding whether a problem can and should be studied.
 - d. Describe how quantitative and qualitative research problems differ.
 - e. Review the five elements of writing a Problem Statement section.
4. Perform a literature review.
 - a. Define a literature review and describe its importance in research.
 - b. Apply the six steps in conducting a brief literature review.
5. Discover the use of purpose statements, research questions, and hypotheses.
 - a. Distinguish among purpose statements, research questions, and hypotheses.
 - b. Explain why these elements are important in a study.
 - c. Write quantitative purpose statements, research questions, and hypotheses.
 - d. Write qualitative purpose statements and research questions.
6. Demonstrate quantitative data collection and analysis.
 - a. State the five steps of quantitative data collection.
 - b. Describe sampling approaches.
 - c. Locate, select, and assess quantitative instruments.
 - d. Identify the steps of analyzing and interpreting quantitative data.
 - e. Conduct descriptive and inferential analysis.

- f. Interpret results.
7. Demonstrate qualitative data collection and analysis.
 - a. State the five steps of qualitative data collection.
 - b. Describe sampling approaches.
 - c. Recognize various types of qualitative data.
 - d. Identify the steps of analyzing and interpreting qualitative data.
 - e. Conduct qualitative data analysis.
 - f. Interpret results.
8. Evaluate the quality of research studies in educational journals.
 - a. Identify the criteria for assessing a quantitative study.
 - b. Identify the criteria for assessing a qualitative study.
 - c. Critique the quality of a quantitative study.
 - d. Critique the quality of a qualitative study.

Big Ideas and Essential Questions

Big Ideas

- Discovering Knowledge
- Respecting Others
- Finding Problems
- Gathering Information
- Asking Questions
- Studying Numbers and Words
- Evaluating Research

Essential Questions

1. How does research contribute to knowledge creation and understanding?
2. What should researchers do to protect and respect participants?
3. What are the key characteristics of a research problem?
4. How does a literature review connect past knowledge with new investigations?
5. Why is it important to ask a research question?
6. How are quantitative and qualitative data collected and analyzed?
7. What are the criteria for evaluating a research study?

These SLOs are not approved for experiential credit.

Effective: Fall 2024