



**BAKER COLLEGE**  
**STUDENT LEARNING OUTCOMES**

**HUS 3010 Research Methods in Human Services**  
**3 Semester Hours**

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**Student Learning Outcomes & Enabling Objectives**

1. Examine ethical requirements when conducting research.
  - a) Apply ethical behavior in research.
  - b) Select an option when discovering unethical research approaches.
  - c) Discuss the need for and function of the Internal Review Board (IRB).
  
2. Use statistical concepts and calculations for research in the field of Human Services.
  - a) Solve basic statistical calculations.
  - b) Use a program, such as Excel to perform statistical calculations.
  
3. Conduct basic research.
  - a) Determine the research need.
  - b) Determine the research question.
  - c) Construct the problem statement: An interrogative sentence about the relationship(s) between (among) two or more constructs (variable).
  - d) Formulate hypothesis: Declarative sentence that predicts relationship(s) between (among) two or more constructs.
  - e) Obtain IRB approval, if needed.
  - f) Perform measurement and sampling:
    - i. Select the population.
    - ii. Use of appropriate sampling procedures.
    - iii. Choose the appropriate research instrument.
    - iv. Determine the reliability and validity
    - v. Determine the level of measurement
  - g) Collect data.
  - h) Clean data.
  - i) Determine missing data patterns, if any.

- j) Use methods to deal with missing data.
  - k) Determine and use the optimal statistical method to test your hypothesis.
  - l) Analyze data (e.g. univariate, bivariate, multivariate data modeling).
  - m) Discuss findings and limitations to your study.
  - n) Discuss intervention methods based on findings.
4. Analyze the basic differences among research methods such as qualitative, quantitative, survey, and single subject.
    - a) Discuss an approach based on research needs.
    - b) Select an approach based on research needs.
  5. Apply basic research skills to grant writing.
    - a) Write parts of a grant proposal, including the introduction, literature review, aim of proposal, agency and program background.
    - b) Develop a budget to justify the requested amount of money.
    - c) Assess the effectiveness of the program.
    - d) Make adjustments as needed.

## **Big Ideas and Essential Questions**

### **Big Ideas**

- Basic research skills
- Basic Statistics
- Grant writing
- Ethics
- Types of research

### **Essential Questions**

1. Why research?
2. How do you use basic research skills to write successful grant proposals?
3. What is the relevance of ethics to research?
4. How would you select the appropriate research type?
5. How is research used in program evaluation?

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These SLOs are not approved for experiential credit.

**Effective: Spring 2022**