



Educational Research and Measurements 6200  
Methods of Research in Education  
May Session, 2005  
Instructor: Seock-Ho Kim

## Syllabus

### Course Description and Objective

Diverse research approaches used in behavioral science settings, including critical review and interpretation of published research (*The Graduate Bulletin*).

The overall goal of the course is to prepare students to be consumers of published research in education and social sciences. The content of the course is divided into three components:

1. The process of conducting research
2. Types of methods for conducting research
3. Interpretation and review of research

In order to achieve the overall goal, the course will involve readings of the text, an individual project that consists of a series of assignments to reinforce the central concepts, a group project, and three examinations.

### Text

Fraenkel, J. R., & Wallen, N. E. (2003). *How to design and evaluate research in education* (5th ed.). Boston: McGraw-Hill.

American Psychological Association (2001). *Publication manual of the American Psychological Association* (5th ed.). Washington, DC: Author.

### Suggested Supplementary Texts

Best, J. W., & Kahn, J. V. (2003). *Research in education* (9th ed.). Boston: Allyn and Bacon.

Gall, M. D., Gall, J. P. & Borg, W. R. (2003). *Educational research: An introduction* (7th ed.). Boston: Allyn and Bacon.

Gay, L. R., & Airasian, P. (2003). *Educational research: Competencies for analysis and application* (7th ed.). Upper Saddle River, NJ: Merrill/Prentice-Hall.

Huck, S. W. (2004). *Reading statistics and research* (4th ed.). Boston: Pearson.

- Krathwohl, D. R. (1998). *Methods of educational & social science research: An integrated approach* (2nd ed.). New York: Longman.
- Leary, M. R. (2001). *Introduction to behavioral research methods* (3rd ed.). Boston: Allyn and Bacon.
- Locke, L. F., Spirduso, W. W., & Silverman, S. J. (2000). *Proposals that work* (4th ed.). Thousand Oaks, CA: Sage.
- McBurney, D. H., & White, T. L. (2003). *Research methods* (6th ed.). Pacific Grove, CA: Wadsworth.
- McMillan, J. H. (2004). *Educational research: Fundamentals for the consumer* (4th ed.). Boston: Pearson.
- Rosenthal, R., & Rosnow, R. L. (1991). *Essentials of behavioral research: Methods and data analysis* (2nd ed.). New York: McGraw-Hill.
- Rosnow, R. L., & Rosenthal, R. (2004). *Beginning behavioral research: A conceptual primer*. (5th ed.). Upper Saddle River, NJ: Prentice-Hall.
- Sternberg, R. J. (2003). *The psychologist's companion* (4th ed.). New York: Cambridge University Press.

## **Assignments, Projects, Examinations, and Evaluation**

A number of exercises will be assigned and each student is expected to complete the exercises independently. All work must be completed and turned in on time. All work should be lucid, orderly, and self-contained. The main exercises will be culminated as an individual project that is in the format of the American Educational Research Association (AERA) proposal (i.e., maximum of 2,000 words or 3 pages). Specifications of the AERA proposal and sample copies will be distributed later. You can submit the project before the due date for possible review by the instructor. The due date of the individual project is June 6.

A group project will be required. The group project will be a research proposal that will help you to integrate the concepts critical to understanding of research. The research proposal will consist of three main parts: Introduction, Literature Review, and Procedures. Fraenkel and Wallen (2003) includes an example of a complete research proposal in Chapter 24. It can be noted, however, that the format of 'Prior Research' in Chapter 24 (pp. 612–613) is not recommended. Other specimen proposals will be given later in the course. The group project will be conducted groups of four to five students. A draft may be submitted for possible review and correction by the instructor. A final version of the group proposal is due on June 8.

There will be two midterm examinations on May 23 (Monday, 2:00 pm–4:45 pm) and on May 31 (Tuesday, 2:00 pm–4:45 pm) and a final examination on June 8 (Wednesday, 2:00 pm–4:45 pm). The examinations will be administered in class. The midterm examinations will be composed predominately short answer as well as essay items. The final examination

may include a critical review of a published article that reports research from a primary source.

Grades will be based on completion of the exercises that includes the assignments and individual project (20%), on the group proposal (20%), and on the three examinations (20% each). Grades will be assigned as follows: A (above 90%), B (between 80% and 90%), C or worse (below 80%). Full attendance of lectures is required.

## Advice

On any aspect of the course, see Seock-Ho Kim, 325U Aderhold from 5:00 pm to 6:00 pm on Monday to Friday or by appointment. For appointments or replies to brief questions, send email to [shkim@uga.edu](mailto:shkim@uga.edu) or call me at 542-4224 (office) or 310-1218 (home). If I am not available when you call 542-4224, please call and leave a message at 542-4110 (i.e., the main office of the Department of Educational Psychology). If you leave a message, I will probably reply by email, rather than call you back. Please let me know of your email address as soon as possible.

## Class Procedures and Activities

The class will be conducted so as to maximize discussion, not only between the instructor and students, but also among students. To facilitate this intention, most class sessions will include one or more of the following:

- Illustration of key research concepts developed through assigned readings.
- Identification and discussion of these concepts in published research studies.
- Analysis and discussion of selected problems involving these concepts.
- Discussion of the design and development of group proposals.
- Analysis and critique of existing research.

The computer lab (618 Aderhold) has been scheduled for this class on every Friday (2:00 pm–4:45 pm). Tentatively there are a total of three computer sessions and we will meet in the computer lab.

## Course Outline

May 17

Chapter 1. The Nature of Educational Research

Chapter 2. The Research Problem

May 18

Chapter 3. Variables and Hypotheses

Chapter 4. Ethics and Research

May 19  
Chapter 5. Reviewing the Literature  
Chapter 6. Sampling

May 20  
Computer Lab 1. Internet  
Chapter 7. Instrumentation

May 23  
**Midterm Examination 1** (Chapters 1–7)

May 24  
Chapter 8. Validity and Reliability  
Chapter 9. Internal Validity

May 25  
Chapter 10. Descriptive Statistics  
Chapter 11. Inferential Statistics

May 26  
Chapter 12. Statistics in Perspective

May 27  
Computer Lab 2. Literature Search & SPSS  
Chapter 24. Writing Research Proposals and Reports

May 31  
**Midterm Examination 2** (Chapters 8–12)

June 1  
Chapter 13. Experimental Research  
Chapter 14. Single-Subject Research  
Individual Project Presentation

June 2  
Chapter 15. Correlational Research  
Chapter 16. Causal-Comparative Research  
Individual Project Presentation

June 3  
Computer Lab 3. SPSS  
Chapter 17. Survey Research  
Individual Project Presentation

June 6  
Chapter 18. The Nature of Qualitative Research  
Chapter 19. Observation and Interviewing  
Chapter 20. Content Analysis

Individual Project Presentation  
**Individual Project Due**

June 7

Chapter 21. Ethnographic Research  
Chapter 22. Historical Research  
Chapter 23. Action Research  
Group Project Presentation

June 8

**Final Examination**  
Group Project Presentation  
**Group Project Due**

## Tentative Assignments

<b>Set</b>	<b>Due Date</b>
Set 1: Problem Sheets 1–7	May 23
Set 2: Problem Sheets 8–12	May 31
Individual Project	June 6
Group Project	June 8

## May 2005

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17 Ch 1-2	18 Ch 3-4	19 Ch 5-6	20 Lab 1 Ch 7	21
22	23 Mid 1 Set 1	24 Ch 8-9	25 Ch 10-11	26 Ch 12	27 Lab 2 Ch 24	28
29	30	31 Mid 2 Set 2				

## June 2005

SUN	MON	TUE	WED	THU	FRI	SAT
			1 Ch 13-14	2 Ch 15-16	3 Lab 3 Ch 17	4
5	6 Ch 18-20 Individual	7 Ch 21-23	8 Final Group	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		