

Educational Research and Measurements 6200
Methods of Research in Education
Spring Semester, 2000
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 (*Graduate Bulletin* 1999-2000).

The overall goal of the course is to prepare students to be consumers of published research in education and the 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. (2000). *How to design and evaluate research in education* (4th ed.). Boston: McGraw-Hill.

Suggested Supplementary Texts

American Psychological Association (1994). *Publication manual of the American Psychological Association* (4th ed.). Washington, DC: Author.

Best, J. W., & Kahn, J. V. (1998). *Research in education* (8th ed.). Boston: Allyn and Bacon.

Gall, M. D., Borg, W. R., & Gall, J. P. (1996). *Educational research: An introduction* (6th ed.). New York: Longman.

Gay, L. R. (1996). *Educational research: Competencies for analysis and application* (5th ed.). Upper Saddle River, NJ: Merrill/Prentice-Hall.

Huck, S. W. (2000). *Reading statistics and research* (3rd ed.). New York: Longman.

Kerlinger, F. N. (1986). *Foundations of behavioral research* (3rd ed.). New York: Holt, Rinehart and Winston.

Krathwohl, D. R. (1998). *Methods of educational & social science research: An integrated approach* (2nd ed.). New York: Longman.

Leary, M. R. (1995). *Introduction to behavioral research methods* (2nd ed.). Pacific Grove, CA: Brooks/Cole.

Mason, E. J., & Bramble, W. J. (1997). *Research in education and behavioral sciences: Concepts and methods*. Madison, WI: Brown & Benchmark.

McBurney, D. H. (1998). *Research methods* (4th ed.). Pacific Grove, CA: Brooks/Cole.

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. (1996). *Beginning behavioral research: A conceptual primer*. (3rd ed.). Upper Saddle River, NJ: Prentice-Hall.

A copy of *Instructor's Manual* of the textbook (3rd ed.) will be placed in the Reserve Materials of the Office of Information Technology (OIT, 232 Aderhold, 542-8007). You can check out the copy overnight. Copies of Rosenthal and Rosnow (1991), Rosnow and Rosenthal (1996), and APA (1994) will be placed in the Reserve Desk of the Main Library. Please contact the Reserve Desk (542-3256) if you have questions.

Communication via e-mail should be addressed to mainresv@uga.cc.uga.edu. A copy of APA (1994) will also be placed in the Reserve Section of the Circulation Department of the Science Library (542-4532 or sciresv@uga.cc.uga.edu).

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 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 any time before the final examination for possible review by the instructor. The due date of the project is May 2.

A group project will be required. The project will be a research proposal that will help you to integrate the concepts critical to understanding research. The research proposal will consist of three main parts: (I) Introduction, (II) Literature Review, and (III) Procedures. Fraenkel and Wallen (2000) includes an example of a complete research proposal in Chapter 22. Other specimen proposals will be given later in the course. The project will be conducted groups of three 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 May 2.

There will be two midterm examinations on February 10 (Thursday, 5:00-6:15 pm) and on March 21 (Tuesday, 5:00-6:15 pm) and a final examination on May 9 (Tuesday, 7:00-10:00 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, 325E Aderhold from 3:00 to 5:00 pm on Tuesday and Thursday or by appointment. For appointments or replies to brief questions, send email to skim@coe.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 send me your email address as soon as possible. If you do not have such an address, you may set up a student account through the Office of Information Technology (OIT, 232 Aderhold Hall).

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 other Thursday (5:00-6:15 pm). Tentatively there are a total of seven computer sessions and we will meet at the computer lab.

Course Outline

January 11
Chapter 1. The Nature of Educational Research
January 13
Chapter 2. The Research Problem

January 18
Chapter 3. Ethics and Research
January 20
Computer Lab 1. Internet
January 25
Chapter 4. Variables and Hypotheses
January 27
Chapter 5. Reviewing the Literature
February 1
Chapter 6. Sampling
February 3
Computer Lab 2. Internet
February 8
Chapter 7. Instrumentation
February 10
Midterm Examination 1 (Chapters 1-7)
February 15
Chapter 8. Validity
February 17
Computer Lab 3. Literature Search
February 22
Chapter 8. Reliability
February 24
Chapter 9. Internal Validity
February 29
Chapter 10. Descriptive Statistics
March 2
Computer Lab 4. SPSS
March 14
Chapter 11. Inferential Statistics
March 16
Chapter 12. Statistics in Perspective
March 21
Midterm Examination 2 (Chapters 8-12)
March 23
Computer Lab 5. SPSS
March 28
Chapter 22. Writing Research Proposals and Reports
March 30
Chapter 13. Experimental Research
Chapter 14. Single-Subject Research
Individual Project Presentation
April 4
Chapter 15. Correlational Research
Chapter 16. Causal-Comparative Research
Individual Project Presentation

April 6
 Computer Lab 6. SPSS
 Individual Project Presentation
 April 11
 Chapter 17. Survey Research
 Chapter 18. Content Analysis Research
 Individual Project Presentation
 April 13
 Chapter 19. Qualitative Research I
 Chapter 20. Qualitative Research II
 Group Proposal Presentation
 April 18
 Chapter 21. Historical Research
 Group Proposal Presentation
 April 20
 Computer Lab 7. Internet
 Group Proposal Presentation
 May 2
Project and Proposal Due
 May 9
Final Examination

Tentative Assignments

Problems	Due Date
Problem Sheets 1-7	February 10
Problem Sheets 8-12	March 21
Individual Project	May 2
Group Proposal	May 2

January 2000

SUN	MON	TUE	WED	THU	FRI	SAT
						1
2	3	4	5	6	7	8

9	10	11	12	13	14	15
		Chap 1		Chap 2		
16	17	18	19	20	21	22
		Chap 3		Lab 1		
23/30	24/31	25	26	27	28	29
		Chap 4		Chap 5		

February 2000

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

March 2000

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

April 2000

SUN	MON	TUE	WED	THU	FRI	SAT
						1
2	3	4	5	6	7	8

		Chap 15		Lab 6		
		Chap 16		Project		
		Project				
9	10	11	12	13	14	15
		Chap 17		Chap 19		
		Chap 18		Chap 20		
		Project		Proposal		
16	17	18	19	20	21	22
		Chap 21		Lab 7		
		Proposal		Proposal		
23/30	24/31	25	26	27	28	29

May 2000

SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6
		Project				
		Proposal				
7	8	9	10	11	12	13
		Final				
14	15	16	17	18	19	20
21	22	23	24	25	26	27

28	29	30	31			

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On 6 Jan 2000, 12:26.