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CHBE 9130A - Research Methods in Community and Behavioral Health

Levi Ross

Georgia Southern University, Jiann-Ping Hsu College of Public Health, lross@georgiasouthern.edu

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Georgia Southern University
Jiann-Ping Hsu College of Public Health

CHBE 9130-A: Research Methods in Community and Behavioral Health
Fall 2016

<u>Instructor:</u>	Levi Ross, PhD, MPH, CHES
<u>Office:</u>	Hendricks Hall Room 2037
<u>Phone:</u>	(912) 478-7901
<u>E-Mail Address:</u>	lross@georgiasouthern.edu
<u>Office Hours:</u>	Mondays: 2:30pm - 5:30pm or Wednesdays 2:30pm - 4:30pm or by appointment (No Tuesday Appointments)
<u>Meeting Times:</u>	Tuesdays: 6:30pm - 9:15pm IT Building Room 2204

-- Course schedules can be found at:
<https://my.georgiasouthern.edu/courses/>

Prerequisites: Undergraduate course in research methods or permission of instructor.

Catalog Description: General Course Description: This course introduces students to research methods in health science. Development and presentation of practicum and research proposals will be the focus of the course. Additional emphasis will be placed on writing skills that will contribute to research projects and grant applications.

Required Texts:

Cottrell, R. R., & McKenzie, J. F. (2011). *Health promotion and education research methods using the five-chapter dissertation model* (2nd ed). Sudbury, MA: Jones and Bartlett. **(RR)**

Creswell, J. W. (2014). *Research design: Qualitative, quantitative and mixed methods approaches* (3rded.). Thousand Oaks, CA: Sage. **(JC)**

Kumar, R. (2011). *Research methodology: A step-by-step guide for beginners* (3rd ed.). Thousand Oaks, CA: Sage. **(RK)**

Required supplemental reading assignments will be posted to Folio. Additional material may be distributed by the instructor in order to address issues that arise in class discussions. Students are expected to have completed assigned readings prior to each class.

Reference Texts. *Concise rules of APA style.* (2010). Washington, DC: American Psychological Association.

Specific Course Purpose. This course is designed to provide an orientation to research in public health promotion and education and to enhance capacity to design, participate in, conduct and critique research. Emphasis is on understanding the complexities of the research process and on developing and interpreting research projects with particular concern for the implication of design, methods, and procedures. Additional emphasis will be placed on creating an understanding of the development and assessment of research across the research paradigms and writing proposals to support research projects. Students are expected to demonstrate research skills and upon completion of the class, students should be capable of developing a research proposal and presenting the proposal in a scholarly manner.

DrPH Community Health Concentration Competencies.

1. Evaluate theories, concepts, and models from social and behavioral science disciplines (e.g. anthropology, sociology, psychology, health education) that are used in public health research and practice.
2. Analyze philosophical foundations and assumptions of research applied to community health problems.
3. Evaluate social and behavioral determinants of health equity at all ecological levels (individual through policy) applied in rural and urban settings.
4. Analyze health communication approaches including social marketing, media advocacy, and new communication technology.
5. Analyze the concept of Public Health Preparedness.
6. Compare U.S. Public Health and Global Public Health priorities and concerns.
7. Apply legislative advocacy skills that influence health policy.
8. Demonstrate planning, implementation, and evaluation of evidence-based community public health interventions.

9. Evaluate qualitative and quantitative methods and their use in community health intervention, evaluation, and research.
10. Utilize qualitative, quantitative, and mixed methods to address community health problems.
11. Evaluate Community-Based Participatory Research (CBPR) approaches when working with diverse communities.
12. Assess ethical principles critical to community-based research and practice.
13. Analyze the impact of power and privilege on health inequity at local, national, and global levels.
14. Demonstrate skills that support cultural competence and cultural humility when working with diverse communities.
15. Analyze current and future community-level needs for keeping the public healthy.
16. Analyze the collaborative and multidisciplinary relationships to respond to public health problems.
17. Develop program development and evaluation plans that include logic models, missions, goals, and objectives.
18. Incorporate data into the resolution of scientific, political, ethical, and social public health concerns.
19. Identify the resources to meet community health needs
20. Promote the public health and health education professions individually and collectively.
21. Develop research and interventions that utilize the five core areas of Public Health.

Specific Course Learning Objectives. As a result of this course students will be able to:

1. Evaluate appropriate areas and issues of concern for research that will improve public health practice. (1,2,3,9,11,16,17,18,21)
2. Evaluate skills needed to participate in multidisciplinary research. (1,16,21)
3. Demonstrate skills to assess the usefulness of research in the field of community health education and behavior to solve problems across the ecological spectrum. (2,3,16)
4. Analyze the relationship of published scientific literature to future research. (2,9,21)
5. Synthesize the appropriate strategies for developing a research problem including literature reviews and methodological assessment. (1,9,16)
6. Evaluate the major paradigms of research that impact public health education. (1,2)

7. Analyze the impact of various types of hypotheses and research questions for developing the evidence-based public health education knowledge base. (1,2,8,16)
8. Evaluate various research designs and methods that are appropriate to help solve public health education problems. (1,9,10,11,16,17)
9. Identify the importance of and develop a plan for conducting a quantitative, a qualitative and a mixed methods research project. (9,10)
10. Analyze the relevant validity and reliability issues that impact data measurement. (9,10).
11. Design and validate appropriate instruments or measurement techniques for research projects. (9,10)
12. Analyze the issues that impact the trustworthiness of qualitative research. (9,10,11)
13. Select appropriate observation and analysis techniques for public health education research projects, including those involving rural and underserved communities. (6,10,13,19)
14. Demonstrate ability to conduct qualitative data collection processes such as participant observation, focus groups, interviews and document analysis. (9,10)
15. Demonstrate ability to draw conclusions from and communicate findings of public health research. (4,20)
16. Analyze the limitations and delimitations of research designs for providing evidence-based strategies. (8)
17. Demonstrate appropriate approaches for critiquing the usefulness of public health education research. (9)
18. Analyze ethical issues, including informed consent and data maintenance, of concern to research in general, and quantitative and qualitative research in particular. (12,13)
19. Demonstrate ability to develop ethical research and apply for IRB approval. (12)
20. Demonstrate research skills to support evaluation research of community initiatives. (2,3,17)
21. Develop a plan to begin/expand your dissertation research. (10,12)
22. Analyze the history of using research to reify belief systems of social and behavioral scientists. (1,2,3)

Overview of the Content to be Covered During the Semester:

WEEK	TOPIC	READINGS	ASSIGNMENTS
Aug 16	Class: Introduction to Research Process	RK Chap 1-2	
	Lab. Introduction to SPSS	JC Chap 1	
Aug 23	Class: Formulating a Research Problem	RK Chap 3-4	
	Lab. Entering and Editing Data (SPSS)	JC Chap 2	
Aug 30	Formulating a Research Problem	RK Chap 5-6	
	Lab. Inserting and Deleting Cases Exporting and Importing Data	JC Chap 3	
Sep 6	Conceptualizing a Research Design	JC Chap 5-7	Draft Intro Due
	Lab. Recoding Data and Computing Values Splitting and Merging Files		
Sep 13	Conceptualizing a Research Design	RK Chap 7-8	SPSS Database Assignment Due
	Lab. Recoding Data and Computing Values Splitting and Merging Files		
Sep 20	Class: Exam 1		Exam 1 (In Class)
	Lab. Survey Development (Qualtrics)		
Sep 27	Constructing an Instrument for Data Collection	RK Chap 9-11	
	Lab. Survey Development (Qualtrics)		
Oct 4	Data Collection (cont.) and Sampling	JC Chap 8-9	Exam 2 (Lab)
	Lab. Exam 2 – Qualtrics	RK Chap 12	
Oct 11	Writing a Research Proposal I	RK Chap 13	Draft Lit Review Due
	Lab. Creating Variables and Computing Descriptive Statistics	JC Chap 4	
Oct 18	Writing a Research Proposal II	JC Chap 10	
	Lab. Computing Bivariate Statistics		
Oct 25	Data Collection	RK Chap 14	Exam 3 (Lab)
	Lab. Computing Multivariate Statistics		
Nov 1	No Class - APHA		Draft Methods Due
	Lab. Exam 3 - SPSS		
Nov 8	Processing and Displaying Data	RK Chap 15-16	
	Lab. Tables, Charts and Graphs		
Nov 15	Class: Exam 4	RK Chap 17-18	Exam 4 (In class)
	Lab. Wrap up (Writing a Research Report)		
Nov 22	No Class (Thanksgiving Break)		
Nov 29	Presentations	-	
Dec 6	Final Papers	-	Written Proposals Due

Instructional Methods: Class meetings will be a combination of lecture, class discussion, and in-class activities. Written homework assignments, examinations, and oral presentations constitute the basis of student evaluation.

Due Dates:

SPSS Database Assignment: **September 13th, 2016**

In-Class (Lab) Examinations: **September 20th, October 4th, October 25th, and
November 15th, 2016**

Proposal Drafts: **September 6th, October 11th, and November 1st 2016**

Research Presentations: **November 29th, 2016**

Research Proposal Due: **December 6th, 2016**

Grading:

Weighting of assignments for purposes of grading will be as follows:

SPSS Database Development..... 300 points (20%)

Examinations 300 points (20%)

Proposal Drafts (Intro, Lit Review, Methods)... 300 points (20%)

Final Proposal..... 300 points (20%)

Final Presentation..... 150 points (10%)

Class Participation..... 150 points (10%)

Total Possible Points 1500 points (100%)

Descriptions of Requirements.

(Course objectives assessed by each requirement in bold)

Assignments

A. **Research Proposal Drafts** – This is a three-stage process that allows students to receive feedback on the three sections of their final proposal throughout the semester. The deadlines for each section is listed below. **4,5,7,11**

i. Introduction – Due: September 6, 2016

ii. Literature Review – Due: October 11, 2016

This is a process of organizing references systematically that support your knowledge of content or subject or research and your understanding of the methods you will use. Your literature review should include empirical studies that tell you what research questions have received convincing answers through empirical tests (i.e., what is the current state of knowledge about your subject matter of interest). You should cast a broad net in your initial literature review in order to increase your chances of finding ideas or findings that are important to your research. You will also organize your lit review into tables to abstract the most salient information to your research topic. You will provide a written product as well as discuss the assignment in class.

For the written product, the first part will consist of background, objective, research question, types of studies, types of participants, databases used, date/year ranges, search strategy (key words used in search including Boolean searches), data to be extracted from articles, quality assessment of articles, inclusion/exclusion criteria (e.g., excluding reviews and commentaries). The second part of the review will be the results in the form of tables, and a written synthesis of your findings, drawing from the Galvan readings and other materials for assistance with organizing this information. **4,5,7,11,21**

iii. Methods – Due: November 1, 2016

B. **Examinations** – Four exams will be given throughout the course. Two exams will be in-class and based on lecture and reading materials. Two exams will be in the lab and based on lab assignments and readings. **1,2,3,6,9,10,14,17**

C. **Research Proposal** – Write the first three chapters of a research proposal (must use quantitative, qualitative or mixed methods along with proposed timeline and appendices):

Please use the Proposal format presented at end of the syllabus

Major focus of evaluation for the requirement will be on the content of the following three sections:

Section I Introduction (1,3,5,7,16)

Section II Review of Literature (4,5,7)

Section III Methods (2,3,5,7,8,9,10,11,12,16)

- D. **Research Proposal Presentation** – Completed Research Proposal – Completion of project including (Introduction, Review of Literature, Methods), ethical issues and perceived value to public health education (13,14,15,16). This will be a 10 to 15 minute power point presentation with 5 – 10 minutes for questions, maximum of 15 slides with content (excludes title/subtitle slides/references). The purpose of both this presentation and the research proposal is to help you prepare for your future dissertation research and research presentation.
- E. **Class Participation** – Students are encouraged to come to class prepared to participate. Some reasons for low class participation grades include: students missing more than three classes, not reading assignments ahead of time, using cell phones in class, and being disrespectful in any way toward other students or the professor.

The following point scale will be utilized in grading:

1350-to-1500 points (90%) A

1200-to-1349 points (80%) B

1050-to-1199 points (70%) C

900-to-1049 points (60%) D

A cumulative total of 899 points or less will be considered as failing.

For calculation of your final grade, all grades above will be included.

Your grades will be posted in Folio. All exams and assignments will be graded and posted within two weeks.

There are times when extraordinary circumstances occur (e.g., serious illness, death in the family, etc.). In such circumstances, and/or if you need

additional time to satisfactorily complete any course requirement, please consult with the instructor within a reasonable amount of time. Extensions are not guaranteed and will be granted solely at the discretion of the instructor.

EXTRA CREDIT IS NOT AVAILABLE.

Academic Misconduct.

As a student registered at this University, it is expected that you will adhere to only the strictest standards of conduct. It is recommended that you review the latest edition of the *Student Conduct Code* book, as well as the latest *Undergraduate & Graduate Catalog* to familiarize yourself with the University's policies in this regard. Your continued enrollment in this course is an implied contract between you and the instructor on this issue; from this point forward, it is assumed that you will conduct yourself appropriately.

Academic integrity relates to the appropriate use of intellectual property. The syllabus, lecture notes, and all materials presented and/or distributed during this course are protected by copyright law. Students are authorized to take notes in class, but that authorization extends only to making one set of notes for personal (and no other) use. As such, students are not authorized to sell, license, commercially publish, distribute, transmit, display, or record notes in or from class without the express written permission of the instructor.

"According to the Academic Dishonesty Policy of GSU, Plagiarism includes (but is not limited to):

- A. Directly quoting the words of others without using quotation marks or indented format to identify them.
- B. Using published or unpublished sources of information without identifying them.
- C. Paraphrasing material or ideas without identifying the source.
- D. Unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic material.

If you are accused of plagiarism by a JPHCOPH, the following policy, as per the Judicial Affairs website (<http://students.georgiasouthern.edu/judicial/faculty.htm>) will be enforced.

PROCEDURES FOR ADJUDICATING ACADEMIC DISHONESTY CASES

First Offense – In Violation Plea

1. If the professor and the Dean of Students agree that the evidence is sufficient to warrant a charge of academic dishonesty, the professor should contact the Office of Judicial Affairs to determine if this is a first violation of academic dishonesty. The incident will be reported via the following website: <http://students.georgiasouthern.edu/judicial/faculty.htm>
2. If it is a first violation, the professor should talk with the student about the violation. If the student accepts responsibility in writing and the professor decides to adjudicate the case, the following procedures will be followed:
 - a. The student will be placed on disciplinary probation for a minimum of one semester by the Office of Judicial Affairs.
 - b. The student will be subject to any academic sanctions imposed by the professor (from receiving a 0 on the assignment to receiving a failing grade in the class).
 - c. A copy of all the material involved in the case (Academic Dishonesty Report Form and the Request For Instructor to Adjudicate Form) and a brief statement from the professor concerning the facts of the case and the course syllabus should be mailed to the Office of Judicial Affairs for inclusion in the student's discipline record.

First Offense – Not In Violation Plea (student does not admit the violation)

If the professor and the Dean of Students agree that the evidence is sufficient to warrant a charge of academic dishonesty, the professor should contact the Office of Judicial Affairs to determine if this is the first or second violation of academic dishonesty. The student will be charged with academic dishonesty and the University Judicial Board or a University Hearing Officer would hear the case. If the student is found responsible, the following penalty will normally be imposed:

- a. The student will be placed on Disciplinary Probation for a minimum of one semester by the Office of Judicial Affairs.
- b. The student will be subject to any academic sanctions imposed by the professor.

Second Violation of Academic Dishonesty

If the professor and the Dean of Students agree that the evidence is sufficient to warrant a charge of academic dishonesty, and if it is determined this is the second violation, the student will be charged with academic dishonesty

and the University Judicial Board or a University Hearing Officer would hear the case.

If the student is found responsible, the following penalty will normally be imposed:

- a. Suspension for a minimum of one semester or expulsion.
- b. The student will be subject to any academic sanctions imposed by the professor.

NOT RESPONSIBLE FINDING

When a student is found not responsible of academic dishonesty, the work in question (assignment, paper, test, etc.) would be forwarded to the Department Chair. It is the responsibility of the Department Chair to ensure that the work is evaluated by a faculty member other than the individual who brought the charge and, if necessary, submit a final grade to the Registrar. For the protection of the faculty member and the student, the work in question should not be referred back to the faculty member who charged the student with academic dishonesty.

In the case of a Department Chair bringing charges against a student, an administrator at the Dean's level will ensure that the student's work is evaluated in an appropriate manner.

CONFIDENTIALITY

In accordance with provisions of the Family Educational Rights and Privacy Act of 1974 and the Georgia Open Records Act, any information related to a violation of academic dishonesty or the outcome of a judicial hearing regarding academic dishonesty, is prohibited and must be treated as confidential by members of the faculty."

Academic Handbook.

Students are expected to abide by the Academic Handbook, located at <http://students.georgiasouthern.edu/sta/guide/>. Your failure to comply with any part of this Handbook may be a violation and thus, you may receive an F in the course and/or be referred for disciplinary action.

University Calendar for the Semester.

The University Calendar is located with the semester schedule on the University's Web page, and can be found at the following address:

<https://docs.google.com/a/georgiasouthern.edu/file/d/0BxNAGJ9mw9c3Y3p4cXILUjR5RTQ/edit>

Attendance Policy.

Federal regulations require attendance be verified prior to distribution of financial aid allotments. Attendance will not be recorded after this initial period.

One Final Note.

The contents of this syllabus are as complete and accurate as possible. The instructor reserves the right to make any changes necessary to the syllabus and course material. The instructor will make every effort to inform students of changes as they occur. It is the responsibility of the student to know what changes have been made in order to successfully complete the requirements of the course. Samples of your work may be reproduced for search purposes and/or inclusion in the professor's teaching portfolio. You have the right to review anything selected for use, and subsequently ask for its removal.

Research Proposal Format

1. Title Page (Cover Page)

Title of Proposal – All caps, centered in page

Name – First, MI, Last

Proposal Statement – A Research Proposal Submitted to the Faculty of the Jiann-Ping Hsu College of Public Health in Partial Fulfillment of the Requirements for the Degree Doctor of Public Health with an Emphasis in Community Health

College – Jiann-Ping Hsu College of Public Health

University – Georgia Southern University

City, State – Statesboro, Georgia

Date – December 6, 2016

2. Table of Contents (Topics and Page Numbers)

3. Introduction: (What/Why) (approximately 8 – 10 pages)

Succinct Introduction to the problem or issue(s) including an ecological assessment

Succinct Introduction to what you are doing – methodologically

Brief summary of the major literature from which you made your decision – most pertinent to problem

Statement of Research Problem – hypothesis and sub-problems

Rationale/Significance – why might this project have an impact?

Delimitations

Limitations

Assumptions

Definition of Terms

4. Literature Review: (can be who, what, where, when and why of previous work) (approximately 8 – 10 pages)

Sections determined by the problem – ongoing process

Synthesize the literature – do not report on each article separately

Be sure to consider the issues from an ecological perspective

5. Methods: (Who, Where, When, How) (approximately 8 – 10 pages)

Restate the problem/question in methods terms

Describe the mixed method research design/plan (descriptive, qualitative, quasi-experimental)

Methods of data collection (observations to be made)

Instruments – reliability and validity

Process of data collection

Subjects/Participants and Sampling

Process for Analysis of Data – How does this process give you the ability to answer any research questions you described?

6. Proposed Timeline: (Proposed Tasks and Timeline for Completion) (approximately 3 – 4 pages)

Table format to include Tasks or Action Steps and Date on which to be completed

7. References (Sources – Content and Methods) APA 6th –style