APPLICATION FOR NEW COURSE

1. Submitted by College of ___________________________ Date ___________________________
   Department/Division offering course Health Behavior ___________________________

2. Proposed designation and Bulletin description of this course
   a. Prefix and Number CPH 647
   b. Title* Research Methods for Public Health
   *NOTE: If the title is longer than 24 characters (including spaces), write
   a sensible title (not exceeding 24 characters) for use on transcripts Research Methods
   c. Lecture/Discussion hours per week 3
   d. Laboratory hours per week
   e. Studio hours per week 0
   f. Credits 3

3. Course description
   This course provides the student with basic knowledge about the design and analysis of research in the field of
   health behavior. The theory, design, applications, and analytic strategies used for various types of research
   are presented in a sequential format. Goals of the course include: 1) gaining the ability to critically evaluate
   research in health behavior, 2) achieving competence in research methodology, and 3) understanding the
   conceptual application of analytic techniques to data.

4. Prerequisites (if any)
   MPH, DrPH, or PhD in public health student or permission of instructor

5. May be repeated to a maximum of 1 (if applicable)

6. To be cross-listed as N/A
   Prefix and Number ___________________________ Signature, Chairman, cross-listing department

7. Effective Date Spring 2006 (semester and year)

8. Course to be offered
   [ ] Fall [ ] Spring [ ] Summer

9. Will the course be offered each year?
   [x] Yes [ ] No (Explain if not annually)

8. Why is this course needed?
   This course is needed to fulfill a gap in knowledge about research methodology not currently available for students
   in public health, specifically related to the field of health behavior.

9. a. By whom will the course be taught?
   Richard A. Crosby, PhD

10. b. Are facilities for teaching the course now available?
    [X] Yes [ ] No
    If not, what plans have been made for providing them?
APPLICATION FOR NEW COURSE

10. What enrollment may be reasonably anticipated? ____________________________________________________________________________

11. Will this course serve students in the Department primarily? X Yes ☐ No
Will it be of service to a significant number of students outside the Department? X Yes ☐ No
If so, explain. __________________________________________________________________________

Could possibly be taken by any student in public health, as well as students in other health professions majors.

Will the course serve as a University Studies Program course? ☐ Yes X No
If yes, under what Area? __________________________________________________________________________

12. Check the category most applicable to this course
   X traditional; offered in corresponding departments elsewhere;
   ☐ relatively new, now being widely established
   ☐ not yet to be found in many (or any) other universities

13. Is this course applicable to the requirements for at least one degree or certificate at the University of Kentucky? X Yes ☐ No

14. Is this course part of a proposed new program? If yes, which? ☐ Yes X No

15. Will adding this course change the degree requirements in one or more programs?* X Yes ☐ No
If yes, explain the change(s) below
The department would like this course to be a requirement for public health students who concentrate in the health behavior track.

16. Attach a list of the major teaching objectives of the proposed course and outline and/or reference list to be used.
   See syllabus – attached.

17. If the course is a 100-200 level course, please submit evidence (e.g., correspondence) that the Community College System has been consulted.

18. Within the Department, who should be contacted for further information about the proposed course?
   Name Richard R. Crosby, PhD ____________________________ Phone 257-5678 ext 82039

*NOTE: Approval of this course will constitute approval of the program change unless other program modifications are proposed.
APPLICATION FOR NEW COURSE

Signatures of Approval:

Richard E. Clark
Department Chair

Linda A. Chandler
Dean of the College

Academic Affairs Committee

Faculty Council

10-5-05
Date

10-19-05
Date

Date of Notice to the Faculty

*Undergraduate Council

*University Studies

*Graduate Council

*Academic Council for the Medical Center

*Senate Council (Chair)

*If applicable, as provided by the Rules of the University Senate

Date of Notice to University Senate

ACTION OTHER THAN APPROVAL

Rev 8/02
CPH / HB 647 (section 001): Research Methods For Health Behavior
Spring 2004

Syllabus and Course Policies Document

Dr. Crosby

Contact information

Instructor: Dr. Richard Crosby
Office: 111C CPH
Phone: 859.257.5678 ext. 82039
E-Mail: Crosby@uky.edu
Office Hours: Mondays from 11 to 3 and by appointment

About this course

Prerequisites: There are not perquisites required.

Course Description: This course provides the student with basic knowledge about the design and analysis of research in the field of health promotion. The theory, design, applications, and analytic strategies used for various types of research are presented in a sequential format. Goals of the course include: 1) gaining the ability to critically evaluate research in health promotion practice, 2) achieving competence in research methodology, and 3) understanding the conceptual application of analytic techniques to data.

Course-Specific Objectives:

- understand the role of behavioral science in health promotion.
- distinguish the appropriate study designs used to assess the efficacy of health promotion programs
- collect, manage, analyze, and interpret data on health promotion programs using appropriate statistical and other analytic method
- apply ethical principles that confront health promotion interventions for various audiences
- critically evaluate the design, analysis, and interpretation of health promotion research
- be able to describe key elements, overall function, general utility, and appropriate application of research designs in the field of health promotion
- design a research study intended to address a specific issue in health promotion
- design, analyze, and interpret the results of experimental and survey research
- identify limitations of research studies

College of Public Health Terminal Objectives in Health Behavior: The last two pages of this document indicate the College of Public Health terminal objectives in health behavior and their associated competencies. The entries in the third column indicate the minimal level of attainment for
someone who has successfully completed CPH 647: a “1” represents awareness, a “2” represents knowledgeability, and a “3” represents proficiency. Your personal level of attainement upon completion of CPH 647 and upon completion of your degree program may be higher, depending on your degree program, your area of concentration, and your choices of electives. Please refer to the College of Public Health student handbooks for information about general educational program objectives (www.uc.edu/kysph/students/students.htm).


**Prerequisite:** none

**Course policies and logistics**

**Class Meetings:** We will meet on Mondays from 3:00 - 5:30 in Nursing 214.

**Assignments:** Assignments comprise 40% of the final grade. Five assignments will be made during the semester.

**Examinations:** A midterm exam will be given. This exam will require the student to synthesize and apply information learned from class, class assignments, and assigned readings. The midterm exam will comprise 25% of the final grade. A final exam will be given. This exam will require the student to synthesize and apply information learned from class, class assignments, and assigned readings. This exam will be comprehensive and will comprise 35% of the final grade.

**Grading:** Grades will be assigned according to the following scale (100 points total for the course):

<table>
<thead>
<tr>
<th>Percent of all possible points</th>
<th>Letter grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 - 100</td>
<td>A</td>
</tr>
<tr>
<td>80 - 89</td>
<td>B</td>
</tr>
<tr>
<td>70 - 79</td>
<td>C</td>
</tr>
</tbody>
</table>

**Late Policy:** Cases involving University-excused absences, University-prescribed academic accommodations, or explicit requests from your Assistant or Associate Dean will be handled individually.

**Accommodations:** If you have a documented disability that requires academic accommodations, please see me as soon as possible during scheduled office hours. In order to receive accommodations in this course, you must provide me with a Letter of Accommodation from the Disability Resource Center (www.uk.edu/TLC/grants/uk_ed/services/drc.html). If you have not already done so, please register with the Disability Resource Center (Room 2 Alumni Gym, 257-2754, jkarnes@uky.edu) for coordination of campus disability services available to students with disabilities.
Academic Honesty: The Department of Biostatistics, the College of Public Health, and the University of Kentucky place a premium on academic honesty. Please refer to the University of Kentucky Student Rights and Responsibilities document (www.uky.edu/StudentAffairs/Code/part2.html).

Provisionality: I reserve the right to clarify or amend these policies, in which case I will document the clarification or amendment by distributing an addendum to this document.

Tentative syllabus

Reading assignments are to be done before the class period.

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Reading Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Orientation to syllabus; overview of text; overview of the health promotion plays in public health&lt;br&gt;Begin term paper (assignment #5 -- due on day of final examination)</td>
<td>Babbie Chapters 1 and 2 (44-52, only)</td>
</tr>
<tr>
<td>2</td>
<td>Philosophy of science; deductive and inductive approaches; theory construction/testing</td>
<td>Babbie Chapter 3 (66-74, only)</td>
</tr>
<tr>
<td>3</td>
<td>Research ethics and IRB approval procedures&lt;br&gt;Begin assignment #1 (due in 2 weeks)</td>
<td>Babbie Chapters 4 (94-106, only) and 8</td>
</tr>
<tr>
<td>4</td>
<td>Research design (practice for assignment #2)</td>
<td>Babbie Chapters 5, 6 (151-153, only), and 9</td>
</tr>
<tr>
<td>5</td>
<td>Research design&lt;br&gt;Assignment #2</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Conceptualizing and operationalizing measurement</td>
<td>Babbie Chapter 7</td>
</tr>
<tr>
<td>7</td>
<td>Conceptualizing and operationalizing measurement (continued)</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Mid-Term Exam</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Class discussion of mid-term exam&lt;br&gt;Sampling and sampling distributions</td>
<td>Babbie Chapter 17 (485-490, only)</td>
</tr>
<tr>
<td>10</td>
<td>Sampling and sampling distributions (continued)&lt;br&gt;(practice for assignment #3)</td>
<td>Babbie Chapter 16</td>
</tr>
<tr>
<td>11</td>
<td>Assignment #3&lt;br&gt;Preparation and writing of research articles</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Descriptive statistics and overview</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Experimental design and analysis&lt;br&gt;(practice for assignment #4)</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Survey research and correlational analysis (continued)&lt;br&gt;Assignment #4</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Comprehensive in-class final exam</td>
<td></td>
</tr>
</tbody>
</table>
### Competency Attainment

<table>
<thead>
<tr>
<th>Terminal Objectives in Health Behavior</th>
<th>Competencies</th>
<th>Level of Attainment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Critically review the literature on health promotion and health behavior change</td>
<td>Conduct an electronic literature search using Medline</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Distinguish observational research from intervention research</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Identify research objectives and match these to stated conclusions</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Determine levels of rigor based on type of sample, type of study design, and quality of analysis</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Recognize unstated study limitations</td>
<td>2</td>
</tr>
<tr>
<td>2. Distinguish the appropriate study designs to understand health promotion and health behavior change.</td>
<td>Explain 4 designs used in observational research and 10 designs used in experimental research</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Articulate the progression of research from qualitative to experimental work</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Understand the unique research needs (and dilemmas) posed by issues related to health promotion</td>
<td>2</td>
</tr>
<tr>
<td>3. Collect, manage, analyze, and interpret data on health behavior change using appropriate statistical and other analytic methods.</td>
<td>Analyze data descriptively</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Conduct 3 forms of bivariate analysis (chi-square for 2 X 2 tables, Pearson r, and t-tests)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Conduct 2 forms of multivariate analysis (logistic regression and linear regression)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Enter data onto an SPSS data editor</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Understand how data is collected by self-report (including electronic methods, self-administered questionnaires, and face-to-face interviews)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Understand how data is collected without reliance on self-report</td>
<td>2</td>
</tr>
<tr>
<td>4. Communicate research findings to various kinds of audiences, verbally and in writing.</td>
<td>Prepare an oral presentation suitable for APA</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Prepare a structured abstract</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Prepare an entire research manuscript</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Explain how type 1 and type 2 errors occur and how these may bias the process of translating science into practice</td>
<td>1</td>
</tr>
<tr>
<td>5. Apply ethical principles that confront health promotion and health behavior change interventions for various audiences.</td>
<td>Identify ethical issues in the context of qualitative and observational research</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Identify ethical issues in the context of experimental research</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Complete the CITI course (on-line)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Provide solutions to ethical issues in health promotion research</td>
<td>2</td>
</tr>
<tr>
<td>6. Integrate principles of health promotion and health behavior change into the practice of public health.</td>
<td>Demonstrate how research informs practice and how practice informs research</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Articulate the difference between statistical significance and practical significance</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Identify key barriers and solutions to the task of translating science into practice</td>
<td>1</td>
</tr>
<tr>
<td>Contact person</td>
<td>Review/Date of Proposal Review</td>
<td>Summary Attached? (yes or no)</td>
</tr>
<tr>
<td>----------------</td>
<td>------------------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>Richard Crosby, Chair</td>
<td>10/5/05</td>
<td>Yes</td>
</tr>
<tr>
<td>Richard Crosby, Chair</td>
<td>10/11/05</td>
<td>Yes</td>
</tr>
<tr>
<td>Pamela Teaster, Chair</td>
<td>10/18/05</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Proposal Title:** CPH 647 Research Methods for Public Health (MPH Degree - College of Public Health)

**Proposal Contact:** Dr. Richard Crosby 7-5678 ext 82039

**Proposal Description:** To facilitate the processing of this proposal, please identify the groups or individuals reviewing the proposal. Identify a contact person for each entry, provide the consequences of the review (specifically, approval, rejection, no decision, and vote outcome, if any) and please attach a copy of any report or memorandum developed with comments on this proposal.
MEMORANDUM

TO: Health Care Colleges Council

FROM: Richard A. Crosby, PhD
Chair, Academic Affairs Committee

Pamela Teaster, PhD
Chair, Faculty Council

Linda J. Alexander, EdD
Associate Dean for Academic Affairs

SUBJECT: Proposal for CPH 647 Research Methods for Public Health

DATE: October 18, 2005

It is the intention of the Department of Health Behavior in the College of Public Health to formally establish a course in research methods for students in the MPH degree program, specifically students who are concentrating in the area of health behavior, and for other students whose public health interests involve a health behavior component. The course has been taught on one occasion, Spring 2005, and will be taught again in Spring 2006 under a special topics course number.

The Association of Schools of Public Health is proposing an increase in the minimum number of credit hours for MPH degree programs from 36 to 42, effective Fall 2007. ASPH is the only national organization representing the deans, faculty, and students of the accredited member schools of public health and other programs seeking accreditation as schools of public health. They also provide a focus and a platform for the enhancement of existing and emerging academic public health programs and assist in meeting national goals of disease prevention and health promotion. This new course will help the college fulfill the new minimum requirement of 42 credit hours and will be proposed at a later date as a requirement for students concentrating in health behavior.

This course proposal has been reviewed and approved by the Academic Affairs Committee and the Faculty Council, according to our college's established bylaws.

Further information about this course can be obtained by contacting the course director, Dr. Richard Crosby, via phone at 7-5878 ext 82039 or via email at crosby@uky.edu.