

**New Course Request**

**Indiana University**

Indy Campus

Check Appropriate Boxes:

Undergraduate credit

Graduate credit

Professional credit

1. School/Division Medicine / Public Health 2. Academic Subject Code PBHL
3. Course Number P658 (must be cleared with University Enrollment Services) 4. Instructor Rong
5. Course Title Methods of Health Services and Policy Research  
Recommended Abbreviation (Optional) Mth of Hlth Serv and Pol Res  
(limited to 32 characters including spaces)
6. First time this course is to be offered (Semester/Year): Fall / 2010
7. Credit Hours: Fixed at 3 or Variable from - to -
8. Is this course to be graded S-F (only)? Yes  No
9. Is variable title approval being requested? Yes  No
10. Course description (not to exceed 50 words) for Bulletin publication: Course aims to familiarize students with the methods of health services and policy research. It introduces various study designs, data collection methods, and analysis techniques that are relevant to students and researchers in these ~~XXXX~~ fields. It discusses the ethical, legal and political implications of health services and policy research. ~~XXX~~ Students will apply theoretical ~~XXXX~~ knowledge in the analysis of actual data.
11. Lecture Contact Hours: Fixed at 3 or Variable from - to -
12. Non-Lecture Contact Hours: Fixed at - or Variable from 18 to 20
13. Estimated enrollment: 25 ~~XXXXXXXXXX~~ of which 100 percent are expected to be graduate students.
14. Frequency of scheduling: Fall & Spring Will this course be required for majors? Yes
15. Justification for new course: Necessary component of curriculum in the MPH Program.
16. Are the necessary reading materials currently available in the appropriate library? Yes
17. Please append a complete outline of the proposed course, and indicate instructor (if known), textbooks, and other materials.
18. If this course overlaps with existing courses, please explain with which courses it overlaps and whether this overlap is necessary, desirable, or unimportant.
19. A copy of every new course proposal must be submitted to departments, schools, or divisions in which there may be overlap of the new course with existing courses or areas of strong concern, with instructions that they send comments directly to the originating Curriculum Committee. Please append a list of departments, schools, or divisions thus consulted.

Submitted by:

Carole Kacius Date 6/23/09  
Department Chairman/Division Director

Approved by:

Peter Trachsel Date 7/13/09  
Dean

\_\_\_\_\_  
Date \_\_\_\_\_  
Dean of Graduate School (when required)

\_\_\_\_\_  
Date \_\_\_\_\_  
Chancellor/Vice-President

\_\_\_\_\_  
Date \_\_\_\_\_  
University Enrollment Services

After School/Division approval, forward the last copy (without attachments) to University Enrollment Services for initial processing, and the remaining four copies and attachments to the Campus Chancellor or Vice-President.

UPS 724

University Enrollment Services Final - White; Chancellor/Vice-President - Blue; School/Division - Yellow; Department/Division - Pink; University Enrollment Services Advance - White

**INDIANA UNIVERSITY SCHOOL OF MEDICINE  
DEPARTMENT OF PUBLIC HEALTH  
FALL, 2008**

**COURSE TITLE:** Methods of Health Services and Policy Research

**COURSE NUMBER:**

**LOCATION:**

**DATE:**

**FACULTY:** Nan Rong, PhD, MPH  
Assistant Professor  
Department of Public Health  
Indiana University School of Medicine  
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Indianapolis IN, 46202-3297  
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**COURSE DESCRIPTION**

This is a required course for students in the Health Policy and Management concentration. It aims to familiarize students with the methods of health services research and policy research. It introduces various study designs, data collection methods, and data analysis techniques that are relevant to students and researchers in these fields. It discusses the ethical, legal and political implications of health services and policy research. Students will apply theoretical knowledge in the analysis of actual data. This course also aims to facilitate the development of student's final concentration project.

**MPH PROGRAM COMPETENCIES ADDRESSED IN THIS COURSE**

PERSPECTIVES

- D. Demonstrate analytic and assessment proficiency when formulating hypotheses, evaluating the integrity and comparability of data, and identifying gaps in data resources.

SKILLS

- I. Write proposal, reports, policies, or program guidelines and evaluations (partially).  
M. Understand appropriate uses and limitations of both quantitative and qualitative data, and make relevant inferences from such data.

## LEARNING OBJECTIVES

At the conclusion of this class, the student should

1. Be familiar with basic elements of common study designs for health services and policy research, including various experimental designs, participatory action research, decision analysis, policy research, and system evaluation.
2. Be familiar with the ethical considerations in conducting research with human subjects and the IRB application process.
3. Be able to design and apply common data collection methods such as focus group, personal interview, and survey questionnaires.
4. Be able to apply basic statistical methods to the analysis of secondary quantitative data.
5. Demonstrate knowledge and skills necessary to undertake a project of his/her own research interest.

## REQUIRED AND SUGGESTED TEXT

### Required

Shi, L. (2008) *Health services research methods* (2<sup>nd</sup> ed.). Clifton Park, NY: Delmar.

### Suggested

Koch, T. & Kralik, D. (2006) *Participatory action research in healthcare*. Malden, MA: Blackwell Publishing.

Aday, L. A., Begley, C. E., Lairson, D. R. & Balkrishnan, R. (2004). *Evaluating the healthcare system* (3<sup>rd</sup> ed.). Chicago, IL: Health Administration Press.

Bowing, A. & Ebrahim, S. (2005). *Handbok of health research methods: Investigation, measurement and analysis*. New York, NY: Open University Press.

Hass, P. J. & Springer, J. F. (1998). *Applied policy research: Concepts and cases*. New York, NY: Routledge.

## EVALUATION AND GRADING SCALE

- |                                       |     |
|---------------------------------------|-----|
| 1. Attendance and class participation | 10% |
| 2. Six homework assignments           | 60% |
| 3. Final project                      | 30% |

Final letter grades will be assigned using the following scale:

A+, A	94 to 100%	C+	77 to 79%
A-	90 to 93%	C	73 to 76%
B+	87 to 89%	C-	70 to 72%
B	83 to 86%	F	69% or less
B-	80 to 82%		

## **STUDENTS WITH DISABILITIES**

Students needing accommodations because of disability will need to register with Adaptive Educational Services (AES) and complete the appropriate forms issued by AES before accommodations will be given. The AES office is located in CA 001E and you can reach the office staff by calling 274-3241.

## **STUDENT COURSE EVALUATION**

The Department of Public Health evaluates all courses. Student course evaluations will be conducted in a manner that maintains the integrity of the process and the anonymity of respondents.

## **ACADEMIC INTEGRITY**

~~Academic and personal misconduct by students in this class are defined and dealt with according to the procedures in the Student Misconduct section of the IUPUI *Code of Student Rights*, <http://live.iupui.edu/dos/code/htm>.~~

“Honesty requires that any ideas or materials taken from another source for either written or oral use must be fully acknowledged. Offering the work of someone else as one’s own is plagiarism. The language or ideas thus taken from another may range from isolated formulas, sentences, or paragraphs to entire articles copied from books, periodicals, speeches, or the writings of other students. The offering of materials assembled or collected by others in the form of projects or collections without acknowledgement also is considered plagiarism. Any student who fails to give credit for ideas or materials taken from another source is guilty of plagiarism.” (Faculty Council, May 2, 1961; University Faculty council, March 11, 1975; Board of Trustees, July 11, 1975) Students should refer to the document entitled “Plagiarism Guidelines” posted on OnCourse under “Syllabus” for information regarding student’s responsibilities and penalties for plagiarism.

## CLASS SCHEDULE

Lecture	Lecture topics/Homework assignments
1	<ol style="list-style-type: none"> <li>1. Articulating a research topic</li> <li>2. Formulating a research question – validity and feasibility</li> <li>3. Critical review of the literature in the area of research interest</li> <li>4. Revising your research question based on the result of the literature review</li> </ol>
2	<ol style="list-style-type: none"> <li>1. Forming study objectives and the formulation of testable hypotheses</li> <li>2. Introduction to experimental study designs</li> <li>3. Applications, limitations and validity of various experimental study designs</li> </ol>
3	<ol style="list-style-type: none"> <li>1. The use of definitions and assumptions</li> <li>2. The use of inclusion/exclusion criteria in subject recruitment</li> <li>3. Various sampling methods</li> <li>4. Sample size calculation for probability and non-probability samples</li> </ol> <p><b>Homework 1 is handed out.</b></p>
4	<p>Basics of community-based participatory action research</p> <p><b>Homework Assignment 1 is due before class.</b></p> <p><b>Homework Assignment 2 is handed out.</b></p>
5	<p>Basics of policy research</p> <p><b>Homework Assignment 3 is handed out.</b></p>
6	<ol style="list-style-type: none"> <li>1. Basics of decision analysis</li> <li>2. The evaluation of a health care system</li> </ol>
7	<ol style="list-style-type: none"> <li>1. Ethical issues in health care research</li> <li>2. HIPAA</li> <li>3. Obtaining consent in research involving human subjects</li> <li>4. How to prepare and submit a research proposal for IRB review – the reviewer’s perspective</li> </ol>
8	<p>Organization and management of a focus group</p> <p><b>Homework Assignment 2 &amp; 3 are due before class.</b></p> <p><b>Homework Assignment 4 is handed out.</b></p>
9	<ol style="list-style-type: none"> <li>1. Design of questionnaires</li> <li>2. Basics of key informant interview</li> </ol> <p><b>Homework Assignment 4 is due before class.</b></p> <p><b>Homework Assignment 5 is handed out.</b></p>

10	<p>Analysis of qualitative data</p> <p><b>Homework Assignment 5 is due before class.</b></p> <p><b>Homework Assignment 6 is handed out.</b></p>
11	<p>1. Data coding</p> <p>2. Data cleaning and the handling of missing values</p> <p><b>Homework Assignment 6 is due before class.</b></p> <p><b>Instructions for final project are handed out.</b></p>
12	<p>Analysis of quantitative data I – Univariate and bivariate analysis</p>
13	<p>Analysis of quantitative data II – multivariate analysis</p> <p>1. Applications of linear regression</p> <p>2. Applications of logistic regression</p>
14	<p>Analysis of quantitative data III – programming in SAS of common analytical procedures</p>
15	<p>1. Basics in scientific writing</p> <p>2. Writing the report for your final concentration project</p>
16	<p>1. Designing and making a scientific poster</p> <p>2. Data management and data analysis in Excel</p> <p><b>Final project is due by 6 pm.</b></p>