

PPS950 Pharmaceutical Policy and Public Health

4 Semester Hours

Fall 2009

Course Description/Purpose

Pharmaceutical Policy (PP) is defined as applying the methods and techniques of public policy planning and analysis to issues involving pharmaceuticals, pharmacy, pharmacists and pharmacies, and related topics.

Pharmaceutical Public Health (PPH) is defined as the application of pharmaceutical knowledge, skills and resources to the science and art of preventing disease, prolonging life, and promoting, protecting and improving health for all through organized efforts of society. (R Walker, 2000, Pharmaceutical Journal)

The traditional role of the pharmacist is expanding beyond dispensing and distributing medicines and health supplies. Pharmacists today provide patient-oriented services, and contribute to administrative and public health functions. Within public health, there are many functions that can benefit from pharmacist's unique expertise in pharmacotherapy (e.g. MTM services), access to care (e.g. community pharmacy), and prevention services (e.g. immunization). The pharmacist's centralized placement in the community and clinical expertise are invaluable to the public's health. A perfect illustration of how pharmacy and public health are closely intertwined is the example of community pharmacy. In a community pharmacy any member of the public can walk into a pharmacy and obtain free health advice from a licensed health professional.

This course will also introduce students to observational study design (case control and cohort studies) and the outcome measures that accompany each study design. PPS950 will also introduce students to pharmaceutical policy (PP) and public health (PH) including issues of access to and disparities in healthcare and pharmaceuticals, health and disease indicators, health promotion, emergency preparedness, and the role of the pharmacist in public health and policy.

PPS950 Overall Course Coordinator

Douglas Steinke, BSc(Pharm), PhD
 Assistant Professor of Pharmacy Practice
 Tel: (859) 323-3843
 Email: dtstei2@email.uky.edu

Module Lecturers

Health Policy Jeff Talbert, PhD Associate Professor of Pharmacy Practice Tel: (859) 260-1960 Email: jtal1@email.uky.edu	Health-systems Policy Bruce McIntosh, PharmD Formulary Manager Lexington Veteran Affairs Medical Center Email: bruce.mcintosh@va.gov
Immunization Trish Freeman, PhD Director of Experiential Education Tel: (859) 323-1381 Email: trfree1@email.uky.edu	Smoking Cessation Melody Ryan, PharmD MPH Associate Professor of Pharmacy Practice Tel: (859) 257-8790 Email: maryan1@email.uky.edu

Office Hours:

Appointments for all PP&PH teaching faculty should be scheduled individually through phone or email contact. The office hours for Dr. Steinke will be on **Wednesdays from 3:00 to 6:00pm every week**. This time will be especially set aside for student questions and further discussion of topics from the lecture, but **must email for an appointment time** to ensure personal attention.

Prerequisites:

Students will be expected to employ knowledge and understanding of material from all previous College of Pharmacy courses and to apply information gained in the other courses presented during the fall semester. Specifically knowledge from PPS940 will be employed throughout the course.

Classification:

Required Professional

Meeting Times and Rooms:

Lecture: Monday and Wednesdays at 1:00pm to 2:50pm
Room 223 in the College of Pharmacy

Course Information

The mode of instruction will vary between didactic lectures; problem-based learning, self-directed homework activities and group work.

Textbook

Understanding Health Policy: A Clinical Approach, 4th Edition. 2005. Thomas Bodenheimer and Kevin Grumbach. McGraw-Hill. ISBN: 0-07-142311-7

Didactic lectures: The tentative lecture schedule is listed at the end of this document. Unforeseen circumstances may require the schedule to be modified during the semester. Students will be informed of any changes via blackboard and email.

Homework: A variety of written assignments will be given in PPS950. All homework assignments are designed to reinforce knowledge and skills in the practical and professional aspects of the course content. The due dates of the homework assignments are listed in the schedule at the end of the document.

Group Project Activity: A group project is scheduled to take place. Each student will be required to participate with a group on a project that will be described in detail. The project will entail written report designed to address a specifically assigned scenario within a health care organization.

Class quizzes: in order to assess student progress and comprehension in the course, periodic, unannounced, in-class drills will be given. Students should come to each class meeting prepared to complete a short quiz covering material previously presented. The number of quizzes given will depend on the class comprehension of course material.

Examinations: The block examinations are scheduled for Friday, 18th September, 2009 at 11:00 AM (2 hrs) (CTW014), and Saturday, 17th October, 2009 at 1:30 PM (2 hrs) (220/223). Each exam will cover material from lectures, homework, and group activities. The comprehensive final exam is scheduled for Monday December 14th, 2009 at 4:00 PM in room 220/223 for 2 hours.

Course Outcomes

The course will specifically address the following College of Pharmacy Outcomes and will use the Measurement Criteria as noted in the College of Pharmacy Outcomes Document:

College Professional Outcomes
Teaching

General Abilities Outcomes
Foundation Knowledge
Critical Thinking Skills
Information Management

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Communications
Professionalism
Social Interaction, Citizenship, Leadership
Lifelong Learning

Specific Course Ability Outcomes

At the end of this course the student should be able to:

Study design:

1. Identifying the advantages and disadvantages to each type of study design
2. Identify when each study design type is used
3. Calculate the measures of risk for each study design and interpret the results
4. Differentiate between prevalence and incidence as a measure of disease
5. Identify when to use linear, logistic regression and survival analysis
6. Interpret the results from regression analyses and survival analysis

Pharmaceutical Policy:

7. Describe the policy process and the political influences on policy
8. Describe the policy formation, implementation, and assessment process
9. Understand and describe the organization, financing, and delivery of health care
10. Describes the effects of direct-to-consumer advertising

Pharmaceutical Public Health:

1. Discuss the history of public health
2. Discuss the philosophy of public health
3. Describe the functions of different public health institutes and how they relate to one another
4. Describe how access (healthcare systems, financial and equity) to healthcare and pharmaceuticals relate to health
5. Discuss the determinants of health and their relationship to health
6. Identify important diseases in public health, where they are reported and how they can be investigated.
7. Describe the purposes of screening for disease
8. Identify the benefits and pitfalls to screening
9. Identify the importance of pharmacy and preparedness in natural and man-made disasters
10. Discuss bioterrorism and the role of a pharmacist
11. Identify sources of information to identify public health issues in a population
12. Identify health status indicators and describe their use in pharmacy
13. Describe the needs assessment process and relate it to pharmaceutical public health
14. Describe the States specific health risks/behaviors and the determinates of health
15. Describe the process of health promotion
16. Describe the pharmacists role in immunization
17. Discuss the theory of immunization and the importance to public health
18. Describe the pharmacists role in smoking cessation
19. Discuss the relationship between health promotion and smoking cessation
20. Discuss the Healthy People 2010 goals and relate them back to the State of Kentucky
21. Describe the pharmacists role in the Healthy People 2010 state goals
22. Develop a needs assessment for a fictional population using population based practice data
23. Develop a policy for a fictional population using population based practice data

Written assignment

An essay assignment on communicable diseases and parasites and how pharmacy could be involved will be written in a required format and handed in for grading. The due date for this written assignment is the Friday **November 20th, 2009 at 1:00 pm. There will be a box in the hall with Drs. Ryan, Piascik, Foster, Botts, etc. with the class number and assignment should be put in there.**

Electronic submissions will not be accepted. No late assignments will be accepted or graded. The only exception will be in the case of an excused absence with prior notification and appropriate documentation.

Group assignment

In groups of **4-6 people** (self-selected), a health needs assessment and health policy will be developed using the health profile of a fictional HMO population. A short group report will be written and handed in for a group grade. The due date for this group assignment is Friday **November 20th, 2009 at 1:00 pm** – **NOTE - the same day as the written assignment.** Again, no electronic submissions will be accepted.

Class quizzes

During the semester, there will be unannounced in-class quizzes given. Points from the quizzes will be equally divided across each of the quizzes. All quizzes will count towards the final grade (i.e. there are no dropped quiz scores). If a student misses a quiz because of an excused absence, the total number of quizzes taken will be adjusted to reflect the excused absence.

Practicing Course Outcomes

An ability outcome is an integration of knowledge, skills, and attitudes.

Students will integrate knowledge, skills, and attitudes in a variety of ways to accomplish the course outcomes.

Knowledge will be obtained through reading, attending lectures, participating in class discussions, and completing the written assignments and group project.

Skills will be practiced by developing a health needs assessment and health policy for an HMO population, completing in-class assignments, and answering examination questions.

Attitudes will be addressed and practiced in written assignments and discussions.

To more clearly illustrate the components of an ability outcome, a sample menu of knowledge, skills and attitudes are provided below. Variations of these three components will be introduced throughout the course to give students the opportunity to incorporate selected knowledge, skills, and attitudes into the practice of ability outcomes. These three components are also important in instructor, self, and peer assessment of student performance in the course.

Knowledge

Interpretation of risk measures
Appropriate use of study design
Develop a health needs assessment
Written assignment on disasters
Immunization
Kentucky Healthy 2010 strategies

Skills

Application
Differentiation
Analysis
Persuasion
Integration
Justification

Attitudes

Confidence
Intellectual curiosity
Awareness/insight
Empathy
Responsibility
Motivation

Learning strategies

Various learning strategies will be incorporated to provide students with opportunities to acquire knowledge, model attitudes, and practice the skills needed to master the class ability outcomes.

- a. *Outside preparation:* To enhance understanding of the lecture material, and to maximize participation and benefit from discussion sessions, students are to read the assigned materials prior to lecture. This strategy will seek to achieve knowledge objectives.
- b. *Enhanced lectures:* Intended to summarize and build on concepts and key points in Pharmaceutical Policy and Public Health. Short active-learning strategies will be incorporated throughout the lecture period to facilitate learning and mastery of course abilities. This strategy will seek to achieve knowledge and skill objectives.

- c. *Written assignment:* A paper will be written during the semester to investigate public health and pharmacy issues related to communicable diseases and parasites in a population. This will use your ability to acquire and research knowledge, communicate effectively and clearly the public health and pharmaceutical issues, and justify services absent during an epidemic.
- d. *Health needs assessment report:* A report will be written during the semester to develop a health needs assessment of a fictitious area. This will develop your analytical skills to discover, investigate and associate different types of information to build a picture of a community and a specific health problem of that community. This will then lead to developing a community participation plan that will address the specific health problem identified in the needs assessment. A health policy will be developed also from the needs assessment to aid the community participation plan. Justification, integration and application skills are developed in this capstone exercise.
- e. *Exams:* Two block and one final examination will be given and will comprise content-based questions designed to demonstrate the ability to calculate measures, identify study designs and discuss public health issues and justify your decisions to allow for testing student mastery of the course ability outcomes.

Teaching and learning methods

The course is implemented using a variety of educational methods, including didactic lectures, public health case studies, and group activities to formulate a needs assessment and health policy related to fictitious geographical location.

Assessment

Students should notice that there are **NO points** given in this course, it is totally reliant on percentages.

Block Exam 1	24%
Block Exam 2	24
Class quizzes	2%
Access/Equity assignment	2%
Written assignment	10%
Group project	14%
Final exam	24%

Grading

Course grades will be assigned on the following basis:

> 90%	=	A
80-89.9%	=	B
70-79.9%	=	C
< 70%	=	E

Course Policies

The syllabus should not only tell the student what will be taught in the class, the expectations of the instructor and the grading scale, but also act like an academic “contract” between the student and the instructor. The syllabus should also contain specific policies and procedures that may affect the student’s grades. The Academic Ombud has outlined in his bulletin the requirement for course policies in the syllabus. “For each policy described, the student should know both the parameters of the policy and the sanctions for its violation.” The Academic Ombud also provides special insight for professional programs at the University of Kentucky; “Instructors in professional preparation programs have a special responsibility to assist students in learning what constitutes professionalism, ethical and professional behavior and conversely, what actions and forms of behavior would be deemed

unprofessional, unethical or otherwise unacceptable within the profession for which they are preparing". The following are the course policies for PPS950.

Language of the course

The language of the course is Standard English. All assignment, reports, quizzes and examinations will be written in this language. Any type of slang (E-slang, text acronyms, text-message speak, or internet slang) are not acceptable forms of language and will not be accepted by the instructor for this course.

Attendance

The instructors of PPS950 believe that attendance is important to successful academic achievement in the course.

Excused absences are defined in S.R.5.2.4.2 as the following:

Serious illness

Illness or death of family member

University-related trips

Major religious holidays

Other circumstances you find to be "reasonable cause for nonattendance."

With the exception of extreme circumstances, all excused absences must be received by the course coordinator in writing for **prior approval**. Acceptable written statements include physician's notes, funeral announcements, etc. Students anticipating an absence for a major religious holiday are responsible for notifying the instructor in writing of anticipated absences due to their observance of such holidays no later than the last day for adding a class. Information regarding dates of major religious holidays may be obtained through the religious liaison, Mr. Jake Karnes (257-2754).

Unannounced class quizzes will be given in class. Students must be present in class to write the quiz. Students with excused absences only will have an excused quiz which will not count towards their total number of quizzes given. Otherwise the student will receive a grade of "0" for the quiz if the student does not submit a quiz at the time.

Submission of assignments

When written assignments are to be submitted for grading, a specific time and date will be given in the syllabus timetable. The location of assignment drop off will be explained in the class where further instruction on the paper will be given.

Examinations

Examinations that are missed without prior permission or notification to the course coordinator will be graded as a zero. If illness or other extreme circumstances force a student to be absent from an examination, the course coordinator must be contacted via phone or email prior to the scheduled exam time. Extreme circumstances (i.e. car crash on the way to the exam) will be handled on a case-by-case basis; significant documentation will be required in such circumstances in order to obtain the opportunity to take a make-up exam. Oral examinations or written papers may be required in the case of excused absences. **No additional time will be granted to the student arriving late for an examination.**

Cheating and Plagiarism

Except in those instances where students are explicitly instructed to submit work done as a group, students are expected to work and submit material individually. Cheating and plagiarism will not be tolerated in PPS950. It is the expectation of all instructors in PPS950 that students will not cheat, plagiarize, or attempt to gain unfair advantage, and will report any incident(s) to appropriate faculty if they become aware of such activity.

All quizzes and examinations are taken in accordance with the College of Pharmacy Honor Code. A copy of the Honor Code is provided in the University of Kentucky, College of Pharmacy Student Handbook. It is up to each student to ensure that their own behavior during an examination / quiz is such that no doubt could possibly exist about their honesty and integrity.

Errors in Grading:

Errors do occur in grading and students have the right to have any error corrected. Students have one week after the return of exams / assignments to submit for grade corrections. **All errors in grading must be brought to the course coordinator within one week of the exam / assignment being returned. A written explanation of the found error and the students proposed answer of solution have to be submitted before they will be considered by the instructor.**

Professional behavior

The instructor is passing onto the student important learning information so disruptive behavior such as talking while the instructor is giving the lecture, disrespectful debate with the instructors (within or outside the classroom), repeatedly entering the classroom late, or any behavior that disrupts classmates and instructors (including but not limited to reading newspapers, or playing electronic games during class, using cell-phones in the classroom; sleeping during class meetings; attacks of a personal nature or statements or actions denigrating another on the basis of race, sex, religion, sexual orientation, age, national/regional origin, disability or other such factors) will not be tolerated in PPS950. Students identified by the instructor will be asked to refrain from disrupting the class once (a warning) and a written warning letter will be submitted to the student and the College of Pharmacy Academic Affairs Office. At each subsequent disruption the student(s) will be asked to leave the classroom and attend a meeting with the Assistant Dean of Academic Affairs to discuss the behavioral issue. No arguing will be allowed and professional conduct will be expected from the student.

Attire

In general, students should dress so that their most conservative classmate, instructor, client or patient would not be offended. Name badges must be worn during all scheduled course meetings and activities in PPS950. A copy of all written correspondence concerning improper attire within PPS950 will be forwarded to the student record in the College of Pharmacy Academic Affairs Office.

Disabilities

Students with documented disabilities who seek special accommodations from the College must notify the Director of Student Services and the course coordinator no later than the third day of classes as outlined in the University of Kentucky, College of Pharmacy Student Handbook.

College of Pharmacy on-line course evaluation policy

“Regular course and instructor evaluations are required by state, university and college regulations. These evaluations are essential for improving student learning by providing feedback to faculty about their classroom presentations. Based on your feedback, important decisions are made about courses and how they are taught. This process CANNOT work without your input. Please complete a course and instructor’s evaluation for each of your courses. Your individual responses are completely **anonymous**. However, the Office of Education can track who has or has not completed each evaluation and send reminder notices. Summary reports of aggregate data will be provided to the faculty after the semester is completed.

IMPORTANT! Please be certain that the College has your current email address at all times so that you will receive timely e-mail notification throughout the semester as online course evaluations become available.

If you do **not** complete an evaluation, **you will receive an incomplete grade (“I”) for the semester** because you have not completed all of the course requirements. When you complete the course evaluation, the incomplete grade will be changed to the grade earned in the course.

For other College of Pharmacy Regulations and Policies please refer to the Student Handbook at <http://www.mc.uky.edu/pharmacy/current/pharmd/default.asp>

Class schedule

A tentative schedule for PPS950 is attached to the syllabus. It details the course content; however this is a tentative schedule that may change in time depending on course progression.

Community Service Requirement

Professional attitudes and behaviors required of a pharmacist include consistent demonstration of honesty, integrity and empathy. Two General Abilities Outcomes for the College of Pharmacy are: 1) Professionalism and Social Interaction and 2) Citizenship and Leadership. Measurement criteria for these include consistent demonstration of honesty, integrity and a caring attitude, and active participation in professional pharmacy organizations or community service activities.

To assist students in developing these attributes, PPS950 requires students to engage in and reflect upon community service projects. Students are required to perform a minimum of 3 hours of community service each semester. For PPS950 the activity must be related to health care. Examples of health related service include brown bag activities, volunteering at Faith Pharmacy, volunteering at the Salvation Army Clinic, working at health fairs, doing in-service education activities for child care workers on proper medication administration and inter-professional activities with other health professions students etc. Students who would like assistance in finding an appropriate volunteer activity may contact <http://www.uky.edu/VolunteerCenter/> for weekly volunteer activities that are available.

The student is to arrange the activity, perform the activity and reflect on what was learned or experienced during the activity. Students must write a brief reflective statement that includes how they felt about the activity and what they have learned or observed about people. The writing assignment should follow the criteria described below and will be turned into the Academic Affairs Office. Further instructions from the Academic Affairs Office will be forthcoming regarding the mode of submission of the reflective work.

The Community Service Requirement must be completed and submitted by Friday at noon of Week 15 on the master calendar or as advised by the Academic Affairs Office. This is an un-graded course requirement.

Students who do not complete and submit this requirement on time will have their course grade lowered by one letter grade. Students whose activity is judged unsatisfactory will receive an "I" grade for the course until the requirement is met. If the requirement is not completed within three months, the "I" automatically turns into one letter grade lower than otherwise earned. Students who have an "I" grade in any of the 910-960 courses that require community service are not eligible for enrollment in the subsequent course in the series.

Student documentation will be online and information will come to you through the listserv.

For any questions please contact: Phyllis Nally, Office of Admissions (859-323-5023 or pnall2@uky.edu).

Schedule of PPS950 Classes (Fall 2009)

Subject to change

	Date	Hour	Proposed Class Content	Instructor
Monday	8/24/2009	1	Course syllabus and introduction	Steinke
Monday		2	Data, Means, Medians, Stat tests, Correlation	Steinke
Wednesday	8/26/2009	1	Linear and logistic regression review	Steinke
Wednesday		2	Case reports, cross-sectional studies	Steinke
Monday	8/31/2009		Case control studies, Incidence and Prevalence	Steinke
Monday			Cohort (RR), AR, NNT Incidence and prevalence repeat from beginning	Steinke
Wednesday	9/2/2009		Journal Club	Steinke/Beavers
Wednesday			Immunization theory	Freeman (c)
Monday	9/7/2009	1	Labor Day - Holiday	
Monday		2	Labor Day - Holiday	
Wednesday	9/9/2009	1	Immunization theory	Freeman
Wednesday		2	Immunization theory	Freeman
Monday	9/14/2009		Immunization theory	Freeman
Monday			Immunization theory	Freeman
Wednesday	9/16/2009	1	Immunization theory	Freeman
Wednesday		2	Immunization theory	Freeman
			Immunization theory	Freeman
Friday	9/18/2009	2 hrs	1 st block exam 11:30-1:30 pm	CTW 014
Monday	9/21/2009		Block exams	
Wednesday	9/23/2009	1	Chapter 1: Introduction Chapter 2: Paying for Health Care	Talbert
Wednesday		2	Chapter 3: Access to Health Care Chapter 17: Health Care Workforce	Talbert
Monday	9/28/2009	1	Exam review with Steinke and Freeman	Steinke/Freeman
Monday		2	Chapter 4: Reimbursing Health Care Providers Chapter 5: Capitation in Managed Care	Talbert (c)
Wednesday	9/30/2009	1	Chapters 6 and 7: Organization of Health Care	Talbert
Wednesday		2	Chapters 8 and 9: Cost Control	Talbert
Monday	10/5/2009	1	Chapter 10: Long Term Care Chapter 12: Quality	Talbert
Monday		2	Chapter 15: National Health Insurance Chapter 16 Reforming Health Care	Talbert
Wednesday	10/7/2009	1	Health-systems Drug Policy	McIntosh (c)
Wednesday		2	Health-systems Drug Policy	McIntosh
Monday	10/12/2009	1	Health-systems Drug Policy	McIntosh
Monday		2	Health-systems Drug Policy	McIntosh
Wednesday	10/14/2009	1	Health-systems Drug Policy	McIntosh
Wednesday		2	Health-systems Drug Policy	McIntosh
Saturday	10/17/2009		Block exam 1:30-3:30 pm	220/223
Monday	10/19/2009		Block exam	
Wednesday	10/21/2009	1	Introduction to public health	Steinke
Wednesday		2	State specific health profile and KY 2010 health indicators	Steinke
Monday	10/26/2009	1	Exam review	Talbert/McIntosh
Monday		2	Working with public health data and county datasets.	Steinke
Wednesday	10/28/2009	1	Health Promotion theory	Mohammed (c)
Wednesday		2	Health Promotion theory	Mohammed (c)
Monday	11/2/2009	1	Equity of Access and assignment	Steinke
Monday		2	Bioterrorism and agents	Martin (c)

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Wednesday	11/4/2009	1	Disaster management in the community	Shelley Bendall (c)
Wednesday		2	Disaster management at UKMC	Armitstead and Weant (c)
Monday	11/9/2009	1	Comparison of healthcare systems and financial issues	Steinke
Monday		2	Screening	Steinke
Wednesday	11/11/2009	1	Federal agencies for PH and Policy	Beavers (c)
Wednesday		2	International Public Health	Steinke
Monday	11/16/2009		Block exams (assignments in place of exam)	
Wednesday	11/18/2009	1	Work on HNA and assignment	Steinke
Wednesday		2	Work on HNA and assignment	Steinke
Friday	11/20/2009		Hand in the written assignments	
Monday	11/23/2009			
Wednesday	11/25/2009		Thanksgiving start - early fall break off	
Monday	11/30/2009	1	Smoking cessation	Ryan (c)
Monday		2	Smoking cessation	Ryan
Wednesday	12/2/2009	1	Smoking cessation	Ryan
Wednesday		2	Smoking cessation	Ryan
Monday	12/7/2009	1	Smoking cessation	Ryan
Monday		2	Smoking cessation	Ryan
Wednesday	12/9/2009	1	Last Class before the final exam questions and clearing up stuff handing back papers, etc.	Steinke
Wednesday		2	Last Class before the final exam questions and clearing up stuff	Steinke
Monday	12/14/2009	2 hrs	Final Exam on the Monday 4-6 PM	220-223

C = confirmed