

The University of North Carolina at Chapel Hill
School of Pharmacy

**PHCY 431
INTRODUCTION TO HEALTH SYSTEMS**

COURSE SYLLABUS

Fall 2009

COURSE CO-ORDINATOR: Betsy L. Sleath, Ph.D., R.Ph.
Professor of Pharmaceutical Outcomes and Policy
Kerr Hall, Suite 2200, Room 2214
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Office hours: Anytime Mon., Wed., Fri.
Knock on door if door is closed.

TEACHING ASSISTANTS:

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TIME AND PLACE: Wednesday – 1:00pm-2:50pm
Kerr Hall, Room 2001

COURSE TEXT: Robert McCarthy Introduction to Health Care Delivery: A Primer for
Pharmacists (IHCD 2007) (Recommended)

The book is available at the Health Affairs bookstore and is on reserve at Health Sciences
library.

COURSE WEBSITE: The course website contains the course syllabus. Also,
PowerPoint presentations for class lectures will be posted to the
website.

<http://blackboard.unc.edu>

Overall Course Description/Objectives:

The purpose of this course is to help first year pharmacy students understand the U.S. health care delivery system. The other course objective is to help students understand the areas of the U.S. health care system where pharmacists practice.

Pre-requisites: None

Course teaching approach: Interactive lecture with students expected to actively participate during in-class exercises. Students will also be asked to prepare for some in-class exercises before class.

ASSIGNMENTS:

The following assignments are to be completed:

Health Care Reform Journal Article Assignment**A. Content**

You can work in groups of 2 to 3 individuals. You are required to collect six or more newspaper, magazine, journal, or website articles on health care reform in the United States throughout the semester. The articles must be published sometime during the year 2009. The website articles must be from legitimate organizations (e.g. FDA, healthreform.gov, AMA, APHA etc.) The health care reform journal article assignment is due in class on October 21, 2009.

Please discuss the following in a 6 to 8 page paper:

1. Briefly discuss what types of health care reform changes are discussed in your articles.
2. What are the pros and cons of the types of health care changes discussed in your articles?
3. How could any of the suggested health care reform changes impact the profession of pharmacy? (be creative and do not worry if this is not specifically discussed in your articles).
4. Would your group vote to reform the health care system? Why or why not? What type of health care reform changes would you advocate, if any and why?

Your grade will be based on the following criteria:

Content – did you cover the required areas?	14 points
Spelling/grammar/length/typographical errors	6 points

IMPORTANT NOTE: *Your paper should be TYPED, DOUBLE-SPACED, have PAGE NUMBERS and a REFERENCE SECTION. Papers should have at least 6 references and be 6-8 pages in length (12 pt. font and 1" margins).*

Paper Assignment

Each student will be required to complete a group paper involving a topic related to the areas covered in class. Sample paper topics are listed below. You can pick your own groups which can have 2 to 3 members. You must: (a) review the literature in the area and (b) discuss how pharmacists or the profession of pharmacy is related to this area. Be creative. Late papers will not be accepted. Students

handing in papers late will automatically receive a grade of zero. A one page description of your paper topic and listing of group members is due September 16, 2009. The paper is due in class on November 11, 2009.

IMPORTANT NOTE: Your paper should be TYPED, DOUBLE-SPACED, have PAGE NUMBERS and a REFERENCE SECTION. Papers should have at least 10 references and be 10-15 pages in length (12 pt. font and 1" margins).

Your grade will be based on the following criteria:

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|--|-----------|
| • Clarity/Organization (is there an introduction? Conclusion? Does the paper flow well?) | 4 points |
| • Content | 10 points |
| • Spelling/Grammar/Typographical Errors | 4 points |
| • Use of References | 2 points |

Sample Paper Topics

- Medicare drug benefit
- Home health care pharmacy
- Pharmacoeconomics: an area of practice for pharmacists
- Measuring quality of life in patients with depression
- Hispanic ethnicity and antihypertensive use
- The history of pharmacy education
- Community health centers: providing care to the poor
- The policy implications of rising Medicaid drug budgets
- Hospital pharmacy
- Public health preparedness: what role can the pharmacist play?
- Major policy initiatives that have impacted the practice of pharmacy

Unannounced – In-class learning exercises

Those present in class will receive full credit for unannounced in-class learning exercises. To receive credit, you must write and sign your name on the attendance sheet when it is passed around. Because we realize that you may not be able to attend every class, each individual in the class will be allowed to miss **one** in-class exercise. For every absence beyond the one that is allowed per person, if you are not in class, you will not receive credit, **no excuses** will be accepted. Even if the instructor and/or TA is notified of your absence ahead of time, you will not receive credit.

Exams

There will be 2 exams in the class. Each is worth 20 points. The exams are not cumulative. The exams will have multiple choice and true/false questions. Anyone missing an exam will be given a grade of zero for the missed exam.

GRADING SCALE:

90 – 100	=	A
80 – 89	=	B
70 – 79	=	C
< 70	=	F

Final grades will be assigned based on the number of points earned according to the following point distribution. No students will be allowed to retake any tests or make up any assignments in order to improve their final grade in the course. No incomplete grades will be given.

BREAKDOWN OF COURSE POINTS:

Exam 1	20
Exam 2	20
Paper Assignment	20
Health care reform article assignment	20
Unannounced in class learning exercises	20
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Total possible course points	100

EXTRA CREDIT POINTS:

Possible extra credit points for visiting Patterson’s Mill historical pharmacy: 3 points

You must visit and sign the guest book in the Patterson’s Mill pharmacy area by **November 11, 2009** to receive the extra credit points. You must write your name clearly in the guest book and sign your name so we can identify you when we check the guestbook. Also, please write ‘PY1 student’ on the line you sign. If you do not do this, you will not receive the extra credit points.

Patterson’s Mill is at 5109 Farrington Rd. Coming from campus, you take a left onto Farrington Rd. (near where 54 meets I-40) and it is about a mile down on your right.

It is open Tuesday-Saturday 10-5:00 and Sunday 2-5:00. Phone is 493-8149.

Elizabeth City campus has their own mechanism for students to receive extra credit.

SKILLS LABS:

You will also have two skills lab assignments that are related to this course (the assignments are at the end of the syllabus). These assignments count toward your skills lab grade, not your 431 grade, but the instructors in 431 can help you with the assignments.

Academic Integrity

From the UNC Instrument of Student Governance as revised and adopted July 2003

(<http://instrument.unc.edu/instrument.text.html>):

It shall be the responsibility of every student at The University of North Carolina at Chapel Hill to obey and to support the enforcement of the Honor Code, which prohibits lying, cheating, or stealing when these actions involve academic processes or University, student, or academic personnel acting in an official capacity.

The University and the School of Pharmacy take very seriously all violations of academic integrity. It is the responsibility of all students and faculty to promote an environment of intellectual honesty and to commit to maintaining the level of academic integrity essential to an effective learning experience. **Student Responsibilities** under the University's Honor Code system are defined in Appendix A of the *Instrument of Student Governance*. You should review these to make sure you understand the expectations for academic integrity for this course. **Faculty Responsibilities** are defined in Appendix B of the *Instrument of Student Governance*. You may also wish to review these.

The Pharmacy Faculty are committed to conducting the course in accordance with the Instrument for Student Governance. Please note also that we will use every means allowed under Appendix B of the code to prevent cheating on exams, including assigned seating, use of multiple exam versions, removal of study aids from the exam room, and moving students during an exam when it appears they may be cheating and/or that another student is attempting to copy their paper.

Evidence of cheating on exams or quizzes, plagiarism, copying of homework assignments or any other form of academic dishonesty will result in a required conference with the course director and immediate referral to the Office of the Associate Dean for Professional Education and/or the Student Attorney General for review and adjudication. If you have any questions or concerns regarding these matters, please ask us for clarification.

Additional statements supporting the University's Honor code:

- **Pledge:** To indicate your acceptance of the statement, "*On my honor, I have neither given nor received unauthorized aid on this assignment,*" you should write "*pledge*" and sign your name at the end of all papers, and exams.
- **Exams / assessment:** All exams and assessments are to be completed without the assistance of books, notes, or other people unless otherwise specified.
- **Personal safeguards:** In order to prevent others from copying your work, we encourage you to protect written copies of your work at all times. Do NOT leave copies of your working files on any of the public drives of the SoP computer network.
- **Plagiarism:** We encourage you to use a variety of information resources to support your assignments, but you must give credit for any and all ideas that are not originally your own, whether or not those ideas have been formally published. In addition to citing published works, you must also reference any ideas derived from the Internet, lectures or seminars, or personal correspondence.
- **Reference citations:** Use the standard biomedical manuscript citation format published by the International Committee of Medical Journal Editors in *Requirements for Manuscripts Submitted to Biomedical Journals* (*Ann Intern Med* 1997; 125: 36-47 OR *N Engl J Med* 1997; 336(4): 309-315.) Full text manuscripts are available on Medline at <http://www.uncle.unc.edu/> or from Annals of Internal Medicine website.

TO REPORT OR CONSULT ABOUT POSSIBLE VIOLATIONS OF THE CODE, CONTACT

Pharmacy Student Attorney General
UNC-CH School of Pharmacy
CB# 7360, Beard Hall
Chapel Hill NC 27599-7360
919/843-4699
e-mail: PharmacyAttorneyGeneral@unc.edu

Please refer to the Student Guide to the Pharmacy Student Judicial System for additional information.

COURSE INSTRUCTORS, FALL 2009

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CLASS SCHEDULE

WEDNESDAY, AUGUST 26

- 1:00 – 1:50 Overview of the U.S. Health Care System
Betsy Sleath, Ph.D.
Reading assignment: IHCD Chapter 1
1. Understand the major trends in morbidity and mortality in the U.S. population.
 2. Describe the changing patterns of utilization and costs of health care.
 3. Discuss the impact of changes in U.S. health care on pharmacy.
- 2:00 – 2:50 Private health insurance
Betsy Sleath, Ph.D.
Reading assignment: IHCD Chapter 14
1. Explain the original purpose of health insurance.
 2. Discuss why most private health insurance policies are offered through employers.
 3. Explain what insurance programs can do to reduce their risk.

WEDNESDAY, SEPTEMBER 2

- 1:00 – 1:50 Patient and the health care system
Christopher Gillette
Reading assignment: IHCD Chapter 4
1. Explain how patient expectations of and experiences in the health care system have changed over the past several years.
 2. Describe how the health care delivery system influences the practitioner-patient relationship.
- 2:00 – 2:50 Medicare
Christopher Gillette
Reading assignment: ICHD Chapter 17
1. Describe what types of people are covered by Medicare.
 2. Explain what services are covered by Parts A and B of Medicare.
 3. Define what a Medicare supplement policy is.
 4. Explain why Medicare is facing the possibility of bankruptcy

WEDNESDAY, SEPTEMBER 9

- 1:00 – 2:50 Medicaid and Pharmacy Program
Lisa Weeks, PharmD
Reading assignment: IHCD Chapter 17
1. Describe the roles of federal and state governments in financing Medicaid.
 2. Explain what services must be covered by state Medicaid programs and what services are optional
 3. Discuss what types of cost sharing are imposed on Medicaid beneficiaries.

4. Explain the NC Medicaid pharmaceutical benefit.

WEDNESDAY, SEPTEMBER 16

1 page summary of paper topic is due

1:00 – 1:50 Ethnic and racial differences in medication use; providing culturally competent care
Christopher Gillette

1. Discuss ethnic and racial differences in medication use.
2. Explain the steps to take to provide culturally competent care.

2:00-2:50 Quality of Life
Christopher Gillette

1. Explain the types of quality of life scales that exist in the literature.
2. Discuss how to use quality of life scales in pharmacy practice.

WEDNESDAY, SEPTEMBER 23

1:00 – 1:50 Managed care
Richard Hansen, Ph.D.
Reading assignment: IHCD Chapter 16

1. Understand how health care reform has changed the organization and financing of health insurance and medical care delivery.
2. Understand how managed care has affected physicians, pharmacies and pharmacists, and consumers.
3. Know the methods used by MCOs to control costs, ensure quality, and affect patient use of services.

2:00 – 2:50 Food and Drug Administration (FDA)
Betsy Sleath, Ph.D.

1. Describe the organization and primary functions of the FDA.
2. Understand how to report adverse drug events to the Medwatch program.
3. Describe resources available to health care professionals and patients from the FDA.

WEDNESDAY, SEPTEMBER 30

1:00 – 2:50 Medicare Drug Benefit (Medicare Part D)
Jena Ivey, PharmD

1. Understand the Medicare Drug Benefit (Medicare Part D).
2. Know how to help patients choose a plan under the Medicare Drug Benefit.

WEDNESDAY, OCTOBER 7

1:00 – 2:50 **Exam 1**

WEDNESDAY, OCTOBER 14

1:00 – 2:50 Pharmacoeconomics
Chris Blanchette, Ph.D.
Reading assignment: IHCD Chapter 18

1. Identify the users and audience of pharmacoeconomics.
2. Give examples of pharmacoeconomic studies.
3. Discuss cost minimization analysis, cost-benefit analysis, cost-effectiveness analysis and cost-utility analysis

WEDNESDAY, OCTOBER 21

1:00-2:50 Watch and discuss the movie “Sicko” by Michael Moore (2007) on health care reform

Health care reform journal assignment due at the start of class

WEDNESDAY, OCTOBER 28

1:00 – 2:50 Community Pharmacy
John Sarris, Pharmacist

1. Understand the job opportunities that exist for pharmacists in community pharmacy.
2. Describe the job functions of community pharmacists.

WEDNESDAY, NOVEMBER 4

1:00 – 1:50 Ambulatory care, hospitals
Betsy Sleath, PhD
Reading assignment: IHCD Chapters 6 and 7

1. Describe the different types of hospitals that exist.
2. Explain what types of settings provide ambulatory care.
3. Discuss the role of the pharmacist in providing care in different ambulatory care settings.

2:00 – 2:50 Hospital pharmacy
Rowell Daniels, PharmD

1. Understand the opportunities that exist for pharmacists in hospital pharmacy.
2. Describe the job functions of hospital pharmacists.

WEDNESDAY, NOVEMBER 11

Paper assignment is due at the start of class

1:00-1:50 Long-Term Care
Betsy Sleath, PhD
Reading assignment: IHCD Chapter 8

1. Identify what factors have led to the increasing need for long term care in the United States.
2. Explain the opportunities available for pharmacists in long term care.

2:00 – 2:50 Community health centers
Carl Taylor, Director of Community Health Centers

1. Describe the history of community health centers.

2. Describe the role of pharmacists in community health centers

WEDNESDAY, NOVEMBER 18

1:00 – 1:50 Opportunities for pharmacists in industry

Susan Hogue, PharmD, MPH

1. Understand potential job opportunities for pharmacists in the pharmaceutical industry.

2:00-2:50 Home Health Care

Betsy Sleath, Ph.D.

Reading assignment: IHCD Chapter 10

1. Define home care and discuss what factors have led to the growth of the home care industry in the United States.
2. Describe the role of the pharmacist in home care

WEDNESDAY, NOVEMBER 25

No Class-Thanksgiving Break

WEDNESDAY, DECEMBER 2

Exam 2

WEDNESDAY, DECEMBER 9

1:00 – 1:50 Public health

Steve Moore, RPh, MPH, FRSH, FASHP, CPHP Captain, USPHS, Ret.

1. Define public health.
2. Describe why public health pharmacy is important.

2:00 – 2:50 Emergency preparedness

Steve Moore, RPh, MPH, FRSH, FASHP, CPHP Captain, USPHS, Ret.

1. Define emergency preparedness.
2. Understand how pharmacists contribute to emergency preparedness.

SKILLS LAB ASSIGNMENTS THAT ARE RELATED TO PHARMACY 431 CONTENT

Third Party Exercise DUE IN LAB September 15 and 17, 2009

The purpose of this assignment is to better help you understand the types of decisions that individuals go through when they choose their health insurance plan (or if they decided to go without health insurance). Each group member must interview a family member or friend who is 18 years or older. Make sure to keep the person's name confidential-only refer to the person by age and gender (e.g. a 53 year-old male). Each group must make sure to at least interview someone who is under 30, someone who is between 30 and 50, someone who is between 50 and 64, and someone who is 65 or older. The group members can decide who knows individuals in each of these age categories. The following areas should be covered when you do your interview:

1. Tell them this information is confidential and you will not record their name anywhere (you will just refer to their age and gender).
2. Do they have health insurance? If not, why not?
3. If they are working, did they have a choice of insurance plans from their employer? How many different choices did they have? Why did they choose this specific plan? If they have Medicare, do they also have a MediGap plan?
4. How much do they pay per month for their plan? How many individuals are covered under the plan? If applicable, was family insurance much more expensive per month than individual coverage?
5. Do they have to pay deductibles? How much is it per year?
6. How much do they have to pay for each prescription they have filled? How does the price vary if they receive a brand or generic prescription? Do they typically get brand or generic and why?
7. Can the person go to any provider they want to? Why or why not? Can they go to any pharmacy? Why or why not? Do they have the option of using mail order pharmacy? Do they use mail order pharmacy, why or why not?
8. Is the person satisfied with their health plan? Will they enroll in it next year?

You will present this information to your group in skills lab.

Professional Development Exercise DUE IN LAB October 13 and 15, 2009

The purpose of this assignment is to expose you and your group to pharmacists who work in different settings. Each group member must interview a different pharmacist. At least five of the pharmacists who your group decides to interview must work in different settings (e.g. chain, independent, hospital, industry, long term care, public health etc.). You can interview pharmacists who work in any type of setting. The following areas should be covered when you interview your pharmacist:

1. Why did the pharmacist choose to practice in this area?
2. What type of elective courses, rotations, residencies, fellowships, or further training did the pharmacist do to prepare for this job?
3. What types of activities does the pharmacist do in a typical day?
4. What does the person like best and least about their job?
5. How long has the person practiced in this area?

You will present this information back to your skills lab group.