

PHAR 513
Pharmacoeconomics & Outcomes Research
Spring 2002

Lecturer:

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Drop-In Office Hours: MW at 08:00-12:00am; other times by appointment

Course time/location: Tuesdays and Thursdays at 10:10-11:30 in SB 117

(**Note:** two sessions are scheduled for Friday (Mar 1 and Apr 19) at 1:10-2:30pm in SB 114.)

Required Readings:

There is no required textbook this year. Required reading assignments, such as articles or book chapters will be announced at least one week before the scheduled discussion. Most reading materials will be posted on the ERes system of Mansfield Library.

Chapters 1 and 2 in DiPiro are required reading.

Course Requirements: (Total points possible: 400)

Exam #1 - Classroom (100 points)

Exam #2 - Classroom (100 points)

Exam #3 – Classroom (150 points)

Assignments (50 points)

Examinations will use multiple choice and short answer formats. No notes or books will be allowed and calculators may be needed for some questions. All examinations will be administered in class during the allotted time. Late assignments and missed exams will receive reduced points.

Grading Scale: Grades will be based on percentage of total points earned during the semester.

90 - 100%	A
80 - 89%	B
70 - 79%	C
60 - 69%	D
<60%	F

Expectations for Student Behavior:

You will be expected to arrive for class on time, be prepared for classroom discussions about cases and articles, and respect you classmates and lecturers by not talking or causing other disruptions during class.

If you are unable to take an exam due to a sudden illness or a family emergency, notify the course instructor as soon as practicable to schedule a make-up exam. If the problem is serious or will require extended absence, contact the Assistant Dean for Student Affairs, Lori Morin.

Purpose of the Course:

The purpose of this course is to provide the pharmacy student with an opportunity to learn the basic concepts, assumptions, terminology, and methods associated with pharmacoeconomics and health-related outcomes evaluation and research. Students completing this course should be able to identify different types of pharmacoeconomic evaluations, critically analyze pharmacoeconomic and outcomes research articles or reports, and apply the knowledge to pharmaceutical care problems encountered in patient care or a clinical practice site.

Course Learning Objectives:

Upon completing this course, students should be able to do the following:

1. Given an article or report containing pharmacoeconomic or health-related outcomes information, explain the meaning of pharmacoeconomic and health-related outcomes terms used by the author(s).
2. Given a specific pharmacy service or disease state, identify the important characteristics that should be considered when conducting a pharmacoeconomic analysis for the service or medication within the disease state.
3. Compare and contrast the types of pharmacoeconomic analyses.
4. Compare and contrast health outcomes measurement instruments.
5. Given an article or report containing pharmacoeconomic information:
 - a. Identify the type of analysis used by identifying the presence or absence of essential characteristics of a study design.
 - b. Identify the study assumptions and the implications of those assumptions.
 - c. Evaluate the appropriateness of the study design for answering the research question.
 - d. Compare and contrast the study or report to other related studies.
 - e. Evaluate the applicability of the study results to a specific clinical practice and practice site.
6. Given a health-related outcomes measurement instrument or a study using such instruments:
 - a. Identify the type of instrument used by identifying the presence or absence of essential characteristics.
 - b. Identify the study assumptions and the implications of those assumptions.
 - c. Evaluate the applicability of the instrument or study results to a specific clinical practice and practice site.
7. Given the results of an analysis, interpret the information and prepare an appropriate conclusion.

Schedule of Topics

Date	#	Lecture Topic
Jan 29	1	Introduction to Course
Jan 31	2	Health Economics / Health Care System
Feb 5	3	Review of Macro / Microeconomic principles
Feb 7	4	Pharmacoeconomics and outcomes research
Feb 12	5	Critically Assessing Evaluations
Feb 14	6	Determining Costs
Feb 19	7	Cost Analysis / Cost of Illness
Feb 21	8	Cost Effectiveness Analysis (CEA) & Cost Minimization Analysis (CMA)
Feb 26	9	CEA article (5 points)
Feb 28		EXAM #1 (100 points)
Mar 1	10	Cost Utility Analysis (CUA) Friday class (1:10-2:30pm)
Mar 5	11	Cost Utility Analysis (CUA)
Mar 7	12	Utilities and QALYs
Mar 12	13	CUA article (10 points)
Mar 14	14	CEA/CUA case: Formulary Decision (10 points)
Mar 19		SPRING BREAK
Mar 21		
Mar 26	15	Measuring Outcomes
Mar 28	16	Collecting and Analyzing data
Apr 2	17	Collecting and Analyzing data
Apr 4		EXAM # 2 (100 points)
Apr 9	18	Conducting Outcomes Research in Clinical Practice
Apr 11	19	Cost Benefit Analysis (CBA)
Apr 16	20	Cost Benefit Analysis (CBA)
Apr 18	21	CBA Article (5 points)
Apr 19	22	Case: Comparing Different Programs (10 points) Friday class (1:10-2:30pm)
Apr 23	23	Optimization and Advanced Topics
Apr 25	24	Case: Adding a pharmacogenetic service (10 points)
Apr 30	25	Guest lecturer (TBA) - HMO viewpoint
May 2	26	Exam review and evaluations
May 9		EXAM #3 (150 points) 10:10 - 12:00noon Thursday, May 9th