

REQUEST FOR NEW COURSE

1. General Information.				
a.	Submitted by the College of: Pharmacy	Today's Date:	01/13/11	
b.	Department/Division: Pharmacy Practice & Science			
c.	Contact person name: Tamela Harper	Email: tjharp00@email.uky.edu	Phone:	257-9384
d.	Requested Effective Date: <input type="checkbox"/> Semester following approval OR <input checked="" type="checkbox"/> Specific Term/Year ¹ : Spring 2012			
2. Designation and Description of Proposed Course.				
a.	Prefix and Number: PPS 706			
b.	Full Title: Intermediate Pharmacoeconomics & Decision Analysis			
c.	Transcript Title (if full title is more than 40 characters): Intermed Pharmacoeconomics & Dec Anal			
d.	To be Cross-Listed ² with (Prefix and Number): N/A			
e.	Courses must be described by <u>at least one</u> of the meeting patterns below. Include number of actual contact hours ³ for each meeting pattern type.			
	45 Lecture	_____ Laboratory ¹	_____ Recitation	_____ Discussion
	_____ Clinical	_____ Colloquium	_____ Practicum	_____ Research
	_____ Seminar	_____ Studio	_____ Other – Please explain: _____	
f.	Identify a grading system: <input checked="" type="checkbox"/> Letter (A, B, C, etc.) <input type="checkbox"/> Pass/Fail			
g.	Number of credits: 3			
h.	Is this course repeatable for additional credit?			YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
	If YES:	Maximum number of credit hours: _____		
	If YES:	Will this course allow multiple registrations during the same semester? YES <input type="checkbox"/> NO <input type="checkbox"/>		
i.	Course Description for Bulletin:	This course is designed to equip students with a working knowledge and understanding of the application of pharmacoeconomic analysis with an emphasis on critical review of the literature.		
j.	Prerequisites, if any: Graduate standing and permission of instructor.			
k.	Will this course also be offered through Distance Learning?			YES ⁴ <input type="checkbox"/> NO <input checked="" type="checkbox"/>
l.	Supplementary teaching component, if any: <input type="checkbox"/> Community-Based Experience <input type="checkbox"/> Service Learning <input type="checkbox"/> Both			
3.	Will this course be taught off campus?			YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
4. Frequency of Course Offering.				

¹ Courses are typically made effective for the semester following approval. No course will be made effective until all approvals are received.

² The chair of the cross-listing department must sign off on the Signature Routing Log.

³ In general, undergraduate courses are developed on the principle that one semester hour of credit represents one hour of classroom meeting per week for a semester, exclusive of any laboratory meeting. Laboratory meeting, generally, represents at least two hours per week for a semester for one credit hour. (from SR 5.2.1)

⁴ You must *also* submit the Distance Learning Form in order for the proposed course to be considered for DL delivery.

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a.	Course will be offered (check all that apply):	<input type="checkbox"/> Fall	<input checked="" type="checkbox"/> Spring	<input type="checkbox"/> Summer
b.	Will the course be offered every year?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
	If NO, explain: _____			
5.	Are facilities and personnel necessary for the proposed new course available?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
	If NO, explain: _____			
6.	What enrollment (per section per semester) may reasonably be expected?	15		
7.	Anticipated Student Demand.			
a.	Will this course serve students primarily within the degree program?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
b.	Will it be of interest to a significant number of students outside the degree pgm?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
	If YES, explain: _____	It may be of interest to other students in areas of health policy, health services research, and economics majors.		
8.	Check the category most applicable to this course:			
	<input type="checkbox"/> Traditional – Offered in Corresponding Departments at Universities Elsewhere			
	<input checked="" type="checkbox"/> Relatively New – Now Being Widely Established			
	<input type="checkbox"/> Not Yet Found in Many (or Any) Other Universities			
9.	Course Relationship to Program(s).			
a.	Is this course part of a proposed new program?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
	If YES, name the proposed new program: _____			
b.	Will this course be a new requirement ⁵ for ANY program?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
	If YES ⁵ , list affected programs: _____			
10.	Information to be Placed on Syllabus.			
a.	Is the course 400G or 500?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
	If YES, the <i>differentiation for undergraduate and graduate students must be included</i> in the information required in 10.b . You must include: (i) identification of additional assignments by the graduate students; and/or (ii) establishment of different grading criteria in the course for graduate students. (See <i>SR 3.1.4.</i>)			
b.	<input type="checkbox"/> The syllabus, including course description, student learning outcomes, and grading policies (and 400G-/500-level grading differentiation if applicable, from 10.a above) are attached.			

⁵ In order to change a program, a program change form must also be submitted.

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Signature Routing Log

General Information:

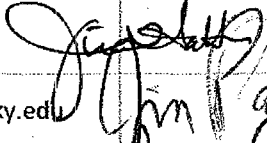
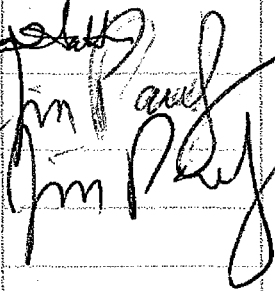
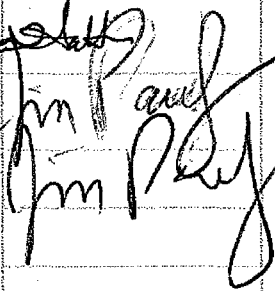
Course Prefix and Number: PPS 706 Intermediate Pharmacoeconomics & Decision Analysis

Proposal Contact Person Name: Brenda Motheral Phone: 323-3849 Email: brenda.motheral@uky.edu

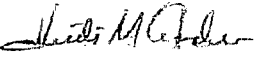
INSTRUCTIONS:

Identify the groups or individuals reviewing the proposal; note the date of approval; offer a contact person for each entry; and obtain signature of person authorized to report approval.

Internal College Approvals and Course Cross-listing Approvals:

Reviewing Group	Date Approved	Contact Person (name/phone/email)	Signature
Department Faculty	2/2/11	Jimmi Hatton / 323-0268 / jhatt1@email.uky.edu	
Graduate Program Committee	3/17/11	Jim Pauly / 3-8164 / jim.pauly@uky.edu	
College Graduate Faculty	3/17/11	Jim Pauly / 3-8164 / jim.pauly@uky.edu	
		/ /	
		/ /	

External-to-College Approvals:

Council	Date Approved	Signature	Approval of Revision ⁶
Undergraduate Council			
Graduate Council			
Health Care Colleges Council	5/17/11		
Senate Council Approval		University Senate Appr	

Comments:

⁶ Councils use this space to indicate approval of revisions made subsequent to that council's approval, if deemed necessary by the revising council.

PPS 706: Intermediate Pharmacoeconomics & Decision Analysis
Spring 2011
Mondays 3-5:50pm
Room 135 BPC
3 credit hours

Instructor: Brenda Motheral, BPharm, MBA, PhD
College of Pharmacy
323-3849
email: brenda.motheral@uky.edu
Office Hours: Monday 9-11am or by appointment

Pharmacoeconomics & Decision Analysis is designed to equip students with a working knowledge and understanding of the application of pharmacoeconomic analysis, with an emphasis on the critical review of the literature.

Textbook: Essentials of Pharmacoeconomics. Karen Rascati. 2009.

Attendance: Class attendance is mandatory. Given the limited number of class meetings, unexcused absences will result in a score of zero for class participation.

Regular and timely class attendance is critical to success in this course. Students with excused absences defined by the University Senate section 5.2.4.2 <http://www.uky.edu/StudentAffairs/Code/part2.html> will not be penalized for the missed coursework but may be required to complete missed activities. All absences must be **directly** reported to and approved by the course coordinator. The right to request appropriate verification is reserved. Unexcused absences will directly affect the final grade for this course. In the event of an unanticipated University closing all classes will be cancelled and the coursework made up during the remaining time in the semester.

Missed assessments of any kind without notification or in the light of an unexcused absence will be graded as zero. In all cases, it is the responsibility of the student to procure any missed work including handouts. Students should not expect to be provided a handout if they are not in class.

All decisions regarding excused and unexcused attendance of any kind shall be at the final discretion of the course coordinator.

Verification of Absence

Students missing work due to an excused absence bear the responsibility of informing the instructor about their excused absence within one week following the period of the excused absence (except where prior notification is required), and of making up the missed work. The instructor shall give the student an opportunity to make up the work and/or the exams missed due to an excused absence, and shall do so, if feasible, during the semester in which the absence occurred.

Assignments Graded Incorrectly: Any assignment graded incorrectly must be brought to the attention of the course director within one calendar week of the assignment being returned. One calendar week after returned, all grades become final and no corrections will be made.

Missed Assignments: Assignments missed without prior notification will be graded as a zero. Research papers (15-20 pages) will be required for any class or assignment missed during an unexcused absence. The graded research paper will replace the 0 grade for an unexcused absence or assignment.

Make-up Work Policy: Make-up work will be allowed only in the event of an excused absence as defined by University Senate section 5.2.4.2. All work must be made-up within one class period after returning to school. A grade of zero will be placed on all work missed or not completed within the specified time frame.

Grading: Failure to complete any of the assignments will result in a score of zero for that assignment as well as a score of zero for class participation. Grades will be assigned according to the following general guidelines: **A=90-100% B=80-89% C=70-79% D=60-69% E=< 60%**

Class performance will be evaluated based upon the following:

- 1. Exams.** There will be two in-class, closed-book exams, counting for 35% of the final grade in the class (Exam 1-15% and Exam 2-20%).

2. **Critical Reviews of Pharmacoeconomic Articles.** Nearly every week students will be expected to provide a 2-3 page critical review of a published pharmacoeconomic evaluation. The articles will be discussed in class, with one student randomly assigned to lead each week's discussion. Reviews account for 25% of the final grade in the class.
3. **Creation of a Decision-Analytic Model.** Each student will independently replicate a previously published decision-analytic, pharmacoeconomic model using TreeAge software. Completion of the model accounts for 10% of the final grade in the class.
4. **Submission and Presentation of Two Critical Reviews of Pharmacoeconomic Articles.** Students are expected to complete a critical review of two recently published pharmacoeconomic evaluations AND submit those comments as a Letter to the Editor of the publishing journal. One of the two reviews may be submitted to a relevant blog for publication. Each of the submissions must be reviewed and approved by Dr. Motheral before submission. It is important to keep in mind that most journals have short windows (2-6 weeks) for consideration of Letters to the Editor following a publication so it will be necessary to identify, write, and submit the review in a timely fashion. In addition, each student will prepare a 30-40 minute presentation discussing their reviews. The presentation will be provided to the class during an assigned class period. Students will be expected to utilize audio-visual materials during their presentation. Following the presentation, the student will lead a 10-15 minute discussion with the class. This project will account for 20% of the final grade in the class.
5. **Class Participation:** Students are expected to come to each lecture prepared to discuss the material being presented and the article for review. Class participation accounts for 10% of the final grade in the class.

Key Outcomes

- Understand the importance of specification/selection of perspectives to be included in the analysis.
- Identify measures of direct and indirect costs based on data on charges, expenditures, and treatment algorithms.
- Determine and use standard costs in economic evaluations.
- Specify an analytical model (cost-effectiveness/cost-utility/costbenefit/ Markov).
- Identify the strengths and weaknesses of different evaluation designs.
- Identify measures of outcomes and understand the appropriate use of QALY and utility measures.
- Understand the difference between efficacy and effectiveness data.
- Understand the implications of choice of endpoints for the analysis, including the use of (a) intermediate outcomes measures, (b) utilities and quality of life measures, (c) projected final outcomes based on trial data, and (d) summary of findings by meta-analysis.
- Discount costs and benefits appropriately.
- Understand sensitivity analysis, including choice of variables and one- and two-way analysis.
- Construct a pharmaeconomic model using TreeAge® software.
- Critically evaluate the published pharmaco-economic literature.

Academic integrity, cheating, and plagiarism

Ethical behavior is expected of all students in the course. Each student in the class is expected to adhere to the highest standards of academic honesty. Cheating, plagiarism, and destruction of course materials violate the rules of the University and the ethical standards of professional behavior. Violations of the university's rules regarding academic honesty can lead to a failing grade in the course and expulsion from the University. Instances of academic dishonesty will be reported to appropriate University officials as required by University rules and procedures. University of Kentucky Code of Student Rights and Responsibilities defines academic offenses and details procedures for dealing with them. The Code can be viewed electronically on the University's web site: <http://www.uky.edu/StudentAffairs/Code/part1.html> All students are expected to be familiar with the content of the Code of Student Rights and Responsibilities.

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 (Room 2, Alumni Gym, 257-2754, email address jkarnes@email.uky.edu) for coordination of campus disability services available to students with disabilities.

COURSE OUTLINE

Date	Topic	Readings	Assignment Due
January 24, 2011	Overview Article evaluation	Drug approval process. http://www.jabfm.org/cgi/reprint/14/5/362 Types of validity http://www.amcp.org/data/jmcp/ce_v4_382-390.pdf Express Scripts Drug Trend Report http://www.express-scripts.com/research/studies/drugtrendreport/	None
January 31, 2011	Costing Methodology Cost of Illness	Rascati—Chp 1 and 2	Critical review—COI Colorectal cancer. http://informahealthcare.com/doi/pdf/10.3111/13696998.2010.536870
February 7, 2011	Cost- Minimization Analysis Cost- Effectiveness Analysis	Rascati-Chp 3, 4, and 5	Critical review—CEA Statins. http://circoutcomes.ahajournals.org/content/2/2/65.full.pdf+html
February 14, 2011	Cost-Utility Analysis Cost-Benefit Analysis	Rascati-Chp 6 and 7	Critical review—CUA Rheumatoid Arthritis. http://onlinelibrary.wiley.com/doi/10.1002/art.24169/pdf
February 21, 2011	Publication Bias and Use by Decision- Makers	Bias in published cost effectiveness studies: systematic review. http://www.bmj.com/content/332/7543/699.full.pdf+html Health technology assessment in health-care decisions in the United States. http://www.ispor.org/HTASpecialissue/Sullivan.pdf	Critical review—CBA Traveler's Diarrhea http://onlinelibrary.wiley.com/doi/10.1111/j.1708-8305.2008.00270.x/pdf
February 28, 2011	Exam 1		
March 7, 2011	Pharmacoeconomics in	ISPOR RCT-CEA Task Force Report. http://onlinelibrary.wiley.com/doi/10.1111/j.15	Critical review-RCT Asthma

	Clinical Trials	24-4733.2005.00045.x/pdf	http://onlinelibrary.wiley.com/doi/10.1111/j.1398-9995.2007.01466.x/pdf
March 14, 2011	Spring Break		
March 21, 2011	Pharmacoeconomics in Modeling-Part 1	Rascati-Chp 9 ISPOR Task Force on Modeling. http://onlinelibrary.wiley.com/doi/10.1046/j.1524-4733.2003.00234.x/pdf	Critical review-Model H. pylori http://www.mdconsult.com/das/article/body/231466425-5/jorg=journal&source=MI&sp=696997&sid=1104591251/N/1784/1.html?issn=0002-9270
March 28, 2011	Pharmacoeconomics in Modeling-Part 2	Rascati-Chp 10	Build decision-analytic model for Vakil and Fennerty http://www.treeagesoftware.com/resources/academic.html
April 4, 2011	Pharmacoeconomics in Claims Databases-Part 1	Rascati-Chp 11 Checklist for Retrospective Database Studies. http://onlinelibrary.wiley.com/doi/10.1046/j.1524-4733.2003.00242.x/pdf	Critical review-Database Diabetes http://www.sciencedirect.com/science?_ob=MIimg&_imagekey=B6VRS-4R63X2V-6-1&_cdi=6242&_user=9815209&_pii=S0149291807001877&_origin=search&_coverDate=12%2F31%2F2007&_sk=999709993.7998&view=c&whp=dGLbVtb-zSkzS&md5=bf0a65b39967ba6b9919091cdc8d5ddb&ie=/sdarticle.pdf
April 11, 2011	Pharmacoeconomics in Claims Databases-Part 2	ISPOR Task Force Part II. http://onlinelibrary.wiley.com/doi/10.1111/j.1524-4733.2009.00601.x/pdf ISPOR Task Force Part III. http://onlinelibrary.wiley.com/doi/10.1111/j.1524-4733.2009.00602.x/pdf	Critical review-Database Step Therapy for Antidepressants http://ajp.psychiatryonline.org/cgi/reprint/167/10/1202
April 18, 2011	Presentations		
April 25, 2011	Presentations		
May 2, 2011	Final Exam		