




UNIVERSITY OF KENTUCKY

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**COLLEGE OF PHARMACY**

Memorandum

TO: Heidi M. Anderson, Ph.D.  
Associate Provost for Faculty Affairs

FROM: William C. Lubawy, Ph.D.   
Associate Dean for Academic Affairs

DATE: October 22, 2007

RE: Approval for Pharm.D./Masters in Public Policy (MPP) Dual Degree Program

The faculty of the College of Pharmacy have approved the attached PharmD/MPP Dual Degree program and are submitting this program for approval by the HCCC. This dual degree option is designed along the same format as existing dual degrees with the PharmD and the MBA, the Masters in Public Administration and a Masters in Economics.

The dual degree program permits a student to gain both degrees in a total time period less than if the degrees were earned independently. This dual degree is highly desirable for persons seeking careers in state and federal regulatory and administrative agencies, the pharmaceutical industry, managed care organizations and academics. In addition it provides an excellent base of coursework for the Ph.D. in Pharmaceutical Policy being developed by the College of Pharmacy.

This program has already been approved by the faculty in the Martin School and they submitted it to the Graduate Council for approval.

# **Doctor of Pharmacy (PharmD) / Masters in Public Policy (MPP) Dual Degree Program**

## **BACKGROUND**

The University of Kentucky currently offers a 2-year, 40-hour Master of Public Policy (MPP) degree through The Graduate School. The University's College of Pharmacy offers a 4-year, 158-credit hour Doctor of Pharmacy (PharmD) degree. The PharmD/MPP dual degree program would be the only one of its type offered in the nation. The dual degree program permits a student to gain both degrees in a total time period less than if the degrees were earned independently. The dual degree is thought to be highly desirable for persons seeking careers in state and federal regulatory and administrative agencies, the pharmaceutical industry, managed care organizations, and academia.

## **STRUCTURE OF PROGRAM**

### **A. Admissions**

A student desiring admission into the dual degree program will be required to apply formally and independently to both programs. Admission standards are the same as if the student were applying solely to one program. To be admitted, an applicant is required to meet the independent admission standards of the College of Pharmacy, the College of Pharmacy Joint Degree Oversight Committee, The Martin School, and The Graduate School.

(1) For the MPP Program, application will be made to The Graduate School and the Martin School. Students who do not hold an awarded bachelor's degree must have at least 90 hours of undergraduate credits to apply to the Graduate School. In addition to course grades (GPA), the applicant's performance on the GRE and letters of recommendation will be considered to establish admission eligibility.

(2) For the College of Pharmacy, PCAT and grade point average as well as letters of recommendation, a formal interview, and other factors described in the College of Pharmacy bulletin are considered to establish admission eligibility. The College of Pharmacy Joint Degree Oversight Committee will consider the student's academic standing within the pharmacy program to establish eligibility for the joint program.

(3) The MPP Director of Graduate Studies and the Associate Dean for Academic Affairs from the College of Pharmacy serve as an advising team, each in their respective schools for all prospective and newly admitted students.

### **B. Programs of Study**

#### **1. The Existing MPP and PharmD Programs**

The Master of Public Policy degree requires 34-hours of core courses plus a 3-hour internship and a 3-credit hour specialization course. Core courses are taken by all MPP students regardless of their area of concentration interests.

The College of Pharmacy offers a 4-year curriculum leading to the Doctor of Pharmacy degree (PharmD). The Doctor of Pharmacy degree is awarded upon completion of a minimum of 158 semester credit hours of specified coursework, with a GPA of at least 2.0 out of a possible 4.0, and approval of the faculty. Eight credit hours are elective coursework. Early and Advanced Pharmacy Practice Experiences (EPPE and APPEs, formerly known as 'pharmacy practice clerkships') constitute 44 credit hours of the specified coursework.

## 2. Dual PharmD/MPP Program

Under the dual degree program, the MPP's required 3 hours of specialization is satisfied by College of Pharmacy courses and the internship is with an administrative agency with health care activities. The internship of the MPP and 8 credit hours of Advanced Pharmacy Practice Experience may be satisfied concurrently.

In turn, the College of Pharmacy grants up to 8 credit hours of elective credits toward the PharmD based upon MPP coursework.

The dual degree program is suitable for full-time students only. Students independently pursuing either the PharmD or the MPP who wish to enter the dual program must be accepted before the end of their second year of study in the PharmD program, and before the end of their first year of study in the MPP program.

An example program of study for dual degree students is:

Year 1 = 38 credit hours of required Pharmacy courses  
4 credit hours of Early Pharmacy Practice Experience (EPPE)  
Total = 42 credit hours

Year 2 = 34 credit hours of required Pharmacy courses  
7 hours required Martin School courses (satisfies 4 credit hours of  
required pharmacy electives)  
Total = 41 credit hours

Year 3 = 34 hours of required Pharmacy courses  
12 hours of required Martin School courses (satisfies 4 credit hours of  
required pharmacy electives)  
Total = 46 hours

Summer 3 = 12-16 credit hours of Advanced Pharmacy Practice Experience  
(APPE)

Year 4 = 15 hours of required Martin School courses  
8 credit hours of Advanced Pharmacy Practice Experience (satisfies PA  
711 - Internship in Public Administration)  
16-20 credit hours of Advanced Pharmacy Practice Experience  
Total = 39-43 credit hours

C. Advantages of Joint Program

The PharmD/MPP program of study affects the total number of minimum required hours as follows:

(1) MPP and PharmD Pursued Independently

Total hours required in MPP program (34 required Core + 3 Area of Specialization + 3 Internship) =	40
Total credit hours required in PharmD program (106 required didactic + 8 elective + 4 EPPE + 40 APPE)	<u>158</u>
Total hours	198

(2) Dual Program

Total MPP hours required in joint program (34 required Core) =	34
Total PharmD credit hours required in joint program (106 required didactic + 4 EPPE + 40 APPE)	<u>150</u>
Total hours	184

From the perspective of the MPP program, the PharmD program serves as the MPP student's Specialization Course, thereby more than satisfying the required 3-hours of MPP Area of Specialization coursework. The required Internship in Public Policy is satisfied with two four-credit hour PharmD Advanced Pharmacy Practice Experiences.

From the College of Pharmacy perspective, the MPP coursework satisfies 8 hours of required electives. Eight credit hours of Advanced Pharmacy Practice Experience are satisfied by the Internship in Public Policy.

This dual program of study may be completed in 4 years plus two summers.

D. Grade Point Average

Grade point average for both programs is calculated independently and respectively by the College of Pharmacy and the Martin School. Dual-degree students are required to remain in compliance with the academic standards of each degree granting unit. For example, a student has to satisfy the College of Pharmacy GPA requirements solely on the basis of graded pharmacy school coursework and The Graduate School's GPA requirements solely on the basis of graded Graduate School coursework. Six (6) hours of pharmacy coursework must be transferred into the Graduate School in order to satisfy the 40-hour requirement of the MPP program; no grade of "C" or below is transferred.

E. More about Completing the MPP

(1) Internships

The 3-hour MPP internship requirement is taken in an appropriate agency in a health care setting as part of the Advanced Pharmacy Practice Experience. The resulting written analysis of the internship is evaluated by the MPP advisor. Internships for joint PharmD / MPP students will be arranged by the MPP Internship Coordinator in collaboration with the Pharmacy Joint Degree Coordinator. Internships in the Martin School will be coordinated with Advanced Pharmacy Practice Experiences in the College of Pharmacy. Advanced Pharmacy Practice Experiences in the College of Pharmacy are arranged with the College of Pharmacy Director of Professional Practice Programs.

F. Student Status

During the period of MPP studies, the student will have the status of a graduate student and will have to comply with the rules and regulations of The Graduate School.

During the period of Pharmacy residence, the student will have the status of a pharmacy student and will have to comply with the rules and regulations of the College of Pharmacy.

G. Granting of PharmD/MPP Degree

Upon satisfactory completion of all degree requirements of both schools and the successful completion of 34 hours of MPP coursework and 142 hours of Pharmacy study, the student is granted both the MPP and PharmD degrees. He/She is eligible to attend graduation ceremonies at either or both schools.

H. Fee Payments

During any period of full-time College of Pharmacy enrollment, the student will pay fees/tuition at the pharmacy college rates. During any period of full-time enrollment in The Graduate School, the student will pay fees/tuition at graduate school rates.

I. Failure to Complete PharmD or MPP Requirement

The PharmD/MPP dual degrees will be granted only upon successful completion of all coursework and examinations.

If a student finds it impossible to complete the pharmacy component, the student who holds a prior bachelor's degree has the option of selecting an Area of Concentration within the MPP program to complete MPP program requirements. Upon successful completion of all MPP hours and a final comprehensive examination over Core and Area of Concentration classes, the MPP degree would be granted.

Pharmacy School credit given for MPP coursework is also provisional upon completion of the dual degree program. Should a student fail to complete the MPP requirements but desire to obtain the PharmD, he/she would be subject to all remaining College of Pharmacy degree requirements. Such a student may receive pharmacy school credit for up to 8 hours of the MPP coursework satisfactorily completed with a grade of "B" or above and subject to approval by the Associate Dean for Academic Affairs.

**Suggested Program of Study for PharmD/MPP\***

	<b>MPP Curriculum‡</b>	<b>Pharmacy Credit Hours</b>	<b>MPP Credit Hours</b>	<b>Total Credit Hours</b>
Year 1	N/A	38 hours of required pharmacy courses + 4 hours of Early Pharmacy Practice Experience	N/A	42
Year 2	<p><b>STA 671 Regression &amp; Correlation:</b> Simple linear, multiple, non-linear and step-wise regression; analysis of variance; partial and multiple correlation. (2 hours)</p> <p><b>STA 672 Design and Analysis of Experiments:</b> (2 hours).</p> <p><b>PA 642 Public Organization Theory and Behavior:</b> An examination of the interaction of external and internal resources and constraints upon the administrative decision processes in public organizational settings.</p>	34 hours of required pharmacy courses	7 hours of required MPP courses (satisfies 4 hours of required pharmacy electives)	41
Summer 2	Option of a core MPP course, if offered.			
Year 3	<p><b>PA 622 Public Program Evaluation:</b> An overview of the conceptual and analytical tools used to evaluate public program and policy effectiveness.</p> <p><b>PA 631 Public Financial Management:</b> An analysis of budget structure and process; revenue structure and administration; and public capital acquisition and debt management.</p> <p><b>PA 651 The Policy Process:</b> An overview of public policy formation and social planning.</p> <p><b>PA 650 Introduction to Economics for Public Policy:</b> An introduction to the tools of economics and how these tools are useful for policy analysis.</p>	34 hours of required pharmacy courses (PHR 950 "Pharmaceutical Policy and Public Health" satisfies 3 hours of required MPP specialization)	12 hours of required MPP courses (satisfies 4 hours of required pharmacy electives)	46
Summer 3	Option of a core MPP course, if offered.	12-16 hours of Advanced Pharmacy Practice Experience (APPE)		12-16

	MPP Curriculum‡	Pharmacy Credit Hours	MPP Credit Hours	Total Credit Hours
Year 4	<p><b>PA 652 Public Policy Economics:</b> Principles and practices of economical resource management in the governmental sector.</p> <p><b>PA 680 Benefit Cost Analysis:</b> Principles, practices and application of applied welfare analysis as used in policy analysis.</p> <p><b>PA 690 Public Policy Analysis Overview:</b> Survey of economic and political foundations of policy analysis, followed by specific techniques used in the practice of policy analysis.</p> <p><b>PA 692 Econometrics:</b></p> <p><b>PA 681 Capstone in Public Policy:</b> The integration of curriculum and practice; an original analysis of a public policy problem culminating in a written report and oral presentation.</p>	24-28 hours of APPE (8 credit hours of public policy-related APPE satisfies PA 711 – Internship in Public Policy)	15 hours of required MPP courses	39-43

\*All courses are 3 credit hours except where noted

‡Students are not required to take MPP courses in this specific order

**Total Credit Hours:**

**184**