

# Texas Tech University Health Sciences Center

## *Jerry H. Hodge School of Pharmacy*

In cooperation with

## Texas Tech University

## *Rawls College of Business*

## *PharmD / MBA Program*

*2020 – 2021*



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## **Program Vision Statement**

*Our vision is to become recognized as the pre-eminent PharmD/MBA dual degree program in the U.S.*

## **Program Mission Statement**

*The mission of the PharmD/MBA program is to:  
(1) prepare pharmacy students to meet the increasing challenges of an evolving health care industry and to  
(2) educate those students to become future health care leaders.*

## **Program Director's Message**

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*The Pharm.D/MBA program provides opportunities to selected students to develop their leadership skills as we rapidly change our health care delivery system. The Health Organization Management concentration encourages greater exploration of subject matter that is important to the future of pharmacy and health care. Our students will acquire important skills that will be used to shape the future of health care delivery. This program is unique in that students get to be part of a joint effort that emphasizes the co-dependency of patient care delivery and the business models that support that care. As a Pharm.D/MBA student, you have been selected to be the future of pharmacy practice leadership. We are proud to be able to offer this unique program and we know that you will be proud to be one of our future graduates.*

*Dr. Roland A. Patry  
Program Director*

# *Introduction and Program History*

## **PHARM.D / MBA PROGRAM**

The idea of a Pharm.D-MBA program was born in early 2006 in discussions between several faculty at the Texas Tech University Rawls College of Business and the Texas Tech University Health Science Center, School of Pharmacy (now the Jerry H. Hodge School of Pharmacy). The central theme to the discussions was the need to develop and train the future leaders of the profession. The Health Organization Management concentration within the MBA program matched what the pharmacy faculty believed were the necessary areas of focus to develop strong leaders in health care organizations.

The curriculum emerged after several rounds of negotiation between the programs keeping in mind the accreditation requirements of business and pharmacy. The curricular design model was determined after reviewing other Pharm.D-MBA programs matched with the teaching schedules and course prerequisites. Rather than adopting the various models currently in use throughout the U.S., the faculty chose to use a dual-degree approach and integrate both programs into a typical 4-year course of study. Since the program was structured to be a dual-degree, it was essential that all of the approved content for both degree plans be met.

The initial plan was to create several tracks for Pharm.D students to obtain the MBA. The first track would be to offer the opportunity of taking the MBA coursework to rising P-2 and rising P-3 students with the goal to phase out the P-3 program and only retain the rising P2 program. This track required the development of separate curricula to ensure that all requirements for both the Pharm.D and MBA were met. The first students began class in the summer 2009. The problems of managing the P-3 program soon became apparent and this track ended with the graduation of the first class.

The second track was viewed as the most desired by the faculty at both colleges. This involved offering the program to what we called P0-P1 students (accepted into pharmacy school but not currently enrolled in pharmacy courses as well as rising P2 students). The P0 students would begin MBA coursework in the summer prior to enrollment in the pharmacy school. The rising P2 students would begin their MBA program in the summer between the P1 and P2 years. The summer 2010 class was the first under this track.

Prior to 2019, summer MBA classes for the second-program year students were held at one of four School of Pharmacy locations. Although the program was overall a positive experience, issues with course delivery software led to discussions about alternative ways to teach the second year of the MBA program. In early 2019, a decision was reached that for the second summer program year, courses would be delivered on-line eliminating the need for students to be located near School of Pharmacy campuses. This also meant that student could remain near their home or in any location that had Internet capabilities.

In the fall 2019, after reviewing the success of the on-line course delivery for the second summer program year, faculty from the business and pharmacy colleges began a discussion to transform all health-related, dual-degree programs into an all on-line degree offering. As approved, the first offering of an on-line PharmD-MBA program will the summer 2020 entering class.

At the May 2020 graduation, over 100 pharmacy students will have received their PharmD-MBA degrees. With current enrollments, the Texas Tech PharmD-MBA program is the largest of its kind in the U.S. The Texas Tech PharmD-MBA program continues to fulfill a significant need to train tomorrow's pharmacy leaders.

# *Application Information*

**\*\*Applicants for the Pharm.D/MBA Dual Degree Program MUST have a prior baccalaureate or higher degree to be admitted into the program\*\***

The TTUHSC School of Pharmacy will usually require completion of a Pharm.D/MBA application form by February 15 of each year. A Pharm.D/MBA selection committee will review the academic achievement of each candidate and forward a recommendation to the Rawls College of Business and HOM program. Students should delay completing the Rawls College of Business applications until a determination of School of Pharmacy (SOP) recommendation has been made. If the Committee does not recommend a student apply to the MBA program, the SOP program coordinator will counsel the The Rawls College of Business and the School of Pharmacy may limit the number of pharmacy students that are allowed to enroll in the MBA.

## **Texas Tech University Health Sciences Center Jerry H. Hodge School of Pharmacy Notice of Intent**

1. P-0 and P1 students desiring to enroll in the Pharm.D/MBA program must complete a Pharm.D/MBA application form
2. P-0 and P1 students desiring to enroll in the Pharm.D/MBA program must sign an acknowledgement or disclosure form, signifying an understanding of special curricular requirements for enrolling in the program.

The PharmD/MBA application form and the acknowledgement forms for P0 and P1 students are compiled in an appendix at the end of this document.

Page 9: PharmD / MBA application

Page 10: P0 acknowledgement form

Page 11: P1 acknowledgement form

Please send completed forms to: Dr. Roland Patry at [roland.patry@ttuhsc.edu](mailto:roland.patry@ttuhsc.edu)

## **Rawls College of Business Application**

The following applications are due by **May 1** of the year of admission. The admission process for the Rawls College of Business MBA program (HOM) is comprised of a single application that combines the requirements for the Graduate School and the Business School:

### **Graduate School / Business School Application**

1. Electronic application at: <http://www.depts.ttu.edu/gradschool/admissions/howtoapply.php>
2. Requires a \$65.00 fee
3. Official transcripts for all schools attended
4. GMAT scores: WAIVED FOR PHARM.D/MBA APPLICANTS
5. Submit a current resume
6. Submit two letters of recommendation (can be the same letters used for the PharmD application)  
NO essay is required.

**PharmD-MBA Dual Degree Program**  
for students classified as P0 or P1 for entering class May 2020 and beyond

**P0 Summer Sessions: 15 credit hours (Note: P1 MBA students will take between their P1 and P2 years- P0 students take before their Fall P1 year)**

Summer 1

<b>ISQS 5345</b>	<b>3 SCH</b>	<b>Statistical Concepts for Business and Management (on-line)</b>
<b>HOM 5307 *</b>	<b>3 SCH</b>	<b>Managing Healthcare Organizations (on-line)</b>
<b>HOM 5308*</b>	<b>3 SCH</b>	<b>Healthcare Operations Management and Quality (on-line)</b>
<b>ACCT 5301</b>	<b>3 SCH</b>	<b>Financial and Managerial Accounting (on-line)</b>
<b>ISQS 5330</b>	<b>3 SCH</b>	<b>Decision Theory &amp; Business Analytics (on-line)</b>

**P1 Fall Semester - 20 SCH**

P0 Preparation for Fall Semester, Orientation/Boot Camp		
<b>16 Wk Block</b>	Phar 1440 - 4 SCH	Molecular Foundations of Therapeutics
	Phar 1430 - 4 SCH	Biological Foundations in Pharmacy and Patient Assessment with Lab
	Phar 1460 - 3 SCH	Pharmacy Science and Calculations
	Phar 1432 - 4 SCH	Pharmacy Immunology and Microbiology + Clinical Immunizations Lab
	Phar 1101. 0 SCH	Introduction to Pharmacy Practice I
	phar 1220 - 2 SCH	Foundations in Pharmacy Practice
	Phar 1250 - 2 SCH	Clinical Correlations I
	<i>Co-curricular/Inter-professional (IPE) activity requirement</i>	

**P1 Spring Semester - 19 SCH**

<b>16 Wk Block</b>	Phar 1461 - 4 SCH	Pharmacy Formulations & Compounding with Lab
	Phar 1431 - 4 SCH	Biological Foundations II with Pt. Assessment and Lab
	Phar 1441 - 4 SCH	Principles of Drug Structure and Action
	Phar 1251. 2 SCH	Clinical Correlations 2
	Phar 1101 - 1 SCH	Introductory Professional Practice Experiences
	<i>Co-curricular/Inter-professional (IPE) activity requirement</i>	
<b>8 Wk Blocks</b>	<b>1st 8-Weeks</b>	
	Phar 1233 - 2 SCH	Principles of Disease
	<b>2nd 8-Weeks</b>	
	Phar 1240 - 2 SCH	App.Med. Chemistry

**P1-P2 Summer Sessions: 15 credits**

Summer 2

<b>MGT 5371</b>	<b>3 SCH</b>	<b>Managing Org. Behavior &amp; Organizational Design (on-line)</b>
<b>MKT 5360</b>	<b>3 SCH</b>	<b>Marketing Concepts and Strategies (on-line)</b>
<b>BECO 5310</b>	<b>3 SCH</b>	<b>Economic Business Analysis (on-line)</b>
<b>FIN 5320</b>	<b>3 SCH</b>	<b>Financial Mgt Concepts (on-line)</b>
<b>HOM 5309*</b>	<b>3 SCH</b>	<b>HOM IV: Integrated Healthcare Operations (capstone-online)</b>

**P2 Fall Semester - 20 SCH**

<b>16 Wk Block</b>	Phar 2420 - 4 SCH	Principles of Self-Care, Health, & Wellness Promotion
	Phar 2402 - 4 SCH	Integrated Therapeutics and Practice II-Renal/Respiratory
	Phar 2220 - 2 SCH	Applied Patient Care Lab
	Phar 2210 - 2 SCH	Clinical Research and Drug Literature Evaluation
	Phar 2218 - 2 SCH	Practice Management I: Health Systems and Policy
	Phar 2250 - 2 SCH	Clinical Correlations 3
	Phar 2401 - 4 SCH	Integrated Therapeutics and Practice I- Cardiovascular
	Phar 2101 - 0 SCH	IPPE Clerkship (No Credit This Semester - Clerkship Runs All Year)
	<i>Co-curricular/Inter-professional (IPE) activity requirement</i>	

**P2 Spring Semester - 21 SCH: 22 SCH for PharmD-MBA students**

<b>16 Wk Block</b>	Phar 2460 - 4 SCH	Basic and Applied Pharmacokinetics
	Phar 2419 - 4 SCH	Pharmacy Mgt II: Leadership, Law and Ethics (Do not enroll. MBA students enroll in PHAR 5372 and PHAR 2219 instead)
	<b>Phar 2219 - 2 SCH</b>	<b>MBA Pharmacy Law (only MBA students enroll in this course)</b>
	Phar 2403 - 4 SCH	Integrated Practice and Therapeutics III -Endocrine, Reproduction, Bone and Joint, Integumentary
	<b>Phar 5372 - 3 SCH</b>	<b>Advanced Leadership and Ethics (substitute for MGT 5372)</b>
	Phar 2404 - 4 SCH	Integrated Therapeutics and Practice IV- Infectious Diseases
	Phar 2261 - 2 SCH	Parenterals and Specialty Pharmaceuticals with Lab
	Phar 2251 - 2 SCH	Clinical Correlations 4
	Phar 2101 - 1 SCH	IPPE 2 Clerkship (Credit This Semester - Clerkship Runs All Year)
	<i>Co-curricular/Inter-professional (IPE) activity requirement</i>	

**P2-P3 Summer Sessions: 0 credits mandated**

**P3 Fall Semester - 12 SCH + P3 Clerkships + Electives (MBA students take 10 SCH plus clerkships and electives)**

<b>16 Wk Block</b>	Phar 3405 - 4 SCH	Integrated Therapeutics and Practice V: Neuro and Psych
	Phar 3218 - 2 SCH	<b>Financial Management (offered in 2020-2021-MBA students do not take: will transfer FIN 5320 from Rawls College of Business)</b>
	Phar 3406 - 4 SCH	Integrated Therapeutics and Practice VI: GI Hepatic, Nutrition, Obesity and Wellness
	Phar 3250 - 2 SCH	Clinical Correlations 5
<b>6 Wk Blocks</b>	<b>Electives</b>	
	<b>Must take a total of 3 courses of electives over the year</b>	
	<i>Co-curricular/Inter-professional (IPE) activity requirement</i>	
	<b>IPPE Clerkships (substitute for HOM 5382)</b>	

**P3 Spring Semester - 12 SCH + P3 Clerkships+ Electives**

<b>16 Wk Block</b>	Phar 3420 - 4 SCH	Clinical Toxicology & Drug Safety & Abuse
	Phar 3219 - 2 SCH	Practice Management III: Institutional and Community Pharmacy Operations
	Phar 3407 - 4 SCH	Integrated Therapeutics and Practice VII:Oncology & Hematology
	Phar 3215 - 2 SCH	Clinical Correlations 6
<b>6 Wk Blocks</b>	<b>Electives</b>	
	<b>Must take a total of 3 courses of electives over the year</b>	
	<i>Co-curricular/Inter-professional (IPE) activity requirement</i>	
	<b>IPPE Clerkships (substitute for HOM 5382)</b>	

**P4 Year Advanced Professional Practice Experiences and Grand Rounds with Integrated Capstone**

It is strongly recommended that students take one Administrative/Management rotation as a P-4 elective. Can be taken at any campus  
Note : the \* next to a course means that a grade of B or better is required by the Rawls College of Business

## ***MBA Course Descriptions\****

\*MBA courses only. Please see the TTUHSC Jerry H. Hodge School of Pharmacy catalogue for the PharmD requirements and course descriptions

### ACCT 5301. Financial and Managerial Accounting (3:3:0,O)

Examines the objectives, structure, and substance of financial reports and the use of accounting in the management of an organization.

### FIN 5320. Financial Management Concepts (3:3:0,O)

Essential financial management concepts with applications to financial decision making in organizations. Special emphasis on cases and computer financial models.

### ISQS 5345. Statistical Concepts for Business and Management (3:3:0,O)

Statistical applications using the personal computer with emphasis on proper presentation and interpretation of statistics in managerial settings. Topics include descriptive statistics, graphical methods, estimation, testing, regression, forecasting, and quality control.

### HOM 5307. Managing Healthcare Operations (3:3:0,O)

Examines fundamental and contemporary issues in management of costs and payments in the healthcare industry. (Requires a grade of B or better)

### HOM 5308. Healthcare Operations and Quality (3:3:0,O)

A systems-based view of healthcare organizations emphasizing evaluation, measurement, and quality issues. (Requires a grade of B or better)

### ISQS 5330. Decision Theory and Business Analytics (3:3:0,O)

Provides an overview of business analytics and examines normative and behavioral theories that drive decision-making.

### MKT 5360. Marketing Concepts and Strategies (3:3:0,O)

Examines marketing functions, the institutions which perform them and the study of marketing planning, strategy, and tactics. Includes the organization, execution, and control of the marketing effort.

[HOM 5309. HOM IV: Integrated Healthcare Operations \(3:3:0,O\)](#)

Analyzes and examines core healthcare operational and management issues from a legal perspective through the use of targeted cases and projects. (Requires a grade of B or better)

[BECO 5310. Domestic/Global Business Conditions in Health Care \(3:3:0,O\)](#)

Studies markets in which firms compete within the context of a global supply chain, including markets for goods and services, financial markets, and labor. Emphasizes how the interactions of these markets affect the formulation and implementation of business strategies.

[MGT 5371. Managing Organizational Behavior & Organizational Design \(3:3:0,O\)](#)

Examines management of individual, interpersonal, group and intergroup relations, organizational design, and the organization's role in a rapidly changing environmental and global context.

[PHAR 2219. MBA Pharmacy Law \(2:4:0,F\)](#)

**Prerequisites: P-2 student status, enrollment in the PharmD/MBA program or with permission of the teaching team.** The study of federal and Texas statutes and rules, which regulate the practice of pharmacy and drug distribution. (Course runs over 8 weeks, see syllabus for schedule)

[PHAR 5372. Advanced Leadership & Ethics \(3:0:1,F\)](#)

**Prerequisites: P-2 student status, enrollment in the PharmD/MBA program or with permission of the teaching team.** Students will explore a number of current theories of leadership in this course. Instructional methods such as lectures, group and individual exercises, and case studies will be used to illustrate how specific principles of leadership are applied in the administration of healthcare institutions, including how these are impacted by gender, culture, and ethical behavior.

## *Appendix*

PharmD MBA application and P0 and P 1 Acknowledgement forms

**PHARMD---MBA APPLICATION FORM**

All currently enrolled or accepted students to the TTUHSC School of Pharmacy MUST complete this application form before submitting any applications or other documents to the TTU Rawls College of Business. A Review Committee of faculty and professional staff will review this application to determine the number of applicants that will be recommended by the TTUHSC School of Pharmacy. The Rawls College of Business Graduate Program determines their own admissions standards and applicants recommended by the School of Pharmacy may or may not be accepted by the Rawls College of Business.

**NAME**

Last Name/Family Name \_\_\_\_\_

First Name \_\_\_\_\_

Middle \_\_\_\_\_

**EDUCATION**

Previous Degree (s) \_\_\_\_\_  
and University \_\_\_\_\_

**MAILING ADDRESS**

Street Address \_\_\_\_\_

City/State \_\_\_\_\_

Zipcode \_\_\_\_\_

Current Email \_\_\_\_\_

**TELEPHONE**

Home Telephone Area code ( ) \_\_\_\_\_

Cellphone Area code ( ) \_\_\_\_\_

CURRENT ADDRESS AND/OR TELEPHONE GOOD UNTIL: Month \_\_\_\_\_ Day \_\_\_\_\_



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### PHARMD-MBA P0 ACKNOWLEDGEMENT FORM

Students admitted to the PharmD/MBA program are expected to complete the requirements of both degree programs within a 4 year period of time. School of Pharmacy students who have not started the P-1 year (known as P0 applicants) but desiring to pursue the MBA program will be required to begin the MBA the summer prior to actually starting the Pharm.D program.

Students who disenroll from the MBA program are still enrolled in the Pharm.D degree program; however, because of the dual degree plan for the PharmD/ MBA, each individual record will be evaluated to determine if Pharm.D courses that were waived will now be required for the PharmD degree. As a result, Pharm.D students may have delayed graduation until the degree requirements are completed.

I acknowledge that I have read and understand the above implications of my acceptance into the PharmD-MBA program as a P0 applicant to the TTUHSC School of Pharmacy.

Printed Name \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_



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### PHARMD-MBA P1 ACKNOWLEDGEMENT FORM

Students admitted to the PharmD/MBA program are expected to complete the requirements of both degree programs within a 4 year period of time. School of Pharmacy students who have not started the P-2 year (known as P1 applicants) but desiring to pursue the MBA program will be required to begin the MBA the summer prior to actually starting the P2 year.

Students who disenroll from the MBA program are still enrolled in the Pharm.D degree program; however, because of the dual degree plan for the PharmD/ MBA, each individual record will be evaluated to determine if Pharm.D courses that were waived will now be required for the PharmD degree. As a result, Pharm.D students may have delayed graduation until the degree requirements are completed.

I acknowledge that I have read and understand the above implications of my acceptance into the PharmD-MBA program as a P1 applicant to the TTUHSC School of Pharmacy.

Printed Name \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_