

# PHARMACY, DOCTOR OF (PHARM.D.)/BUSINESS ADMINISTRATION, MASTER OF (M.B.A.) [DUAL DEGREE]

Advanced study in business administration and pharmacy is available through a dual degree program sponsored by the School of Business and School of Pharmacy.

The dual degree Master of Business Administration and Doctor of Pharmacy program allows students to earn two degrees with a minimum of 191 graduate credits rather than the 200 graduate credits necessary if the two degrees were pursued separately. This efficiency lowers the overall cost of tuition while also reducing time to earning both degrees.

Students must complete their first year of the Pharm.D. program in good standing before considering the dual degree program. A recommendation from the School of Pharmacy is required to be submitted with the M.B.A. application.

Prerequisite and/or foundation courses may effectively increase the number of credits needed to earn the degrees.

## Program goals

The objectives of this dual degree program are to:

- Prepare pharmacy graduates to be effective leaders and managers in organizations
- Equip pharmacy graduates with tools and techniques that optimize managerial decisions
- Provide the ability to organize, synthesize and analyze information for decision-making to achieve strategic organizational goals
- Develop managerial skills necessary to design and implement effective governance mechanisms in organizations
- Develop interpersonal and professional skills critical to business including communication and presentation skills, leadership and management, and situational awareness, among others

Among the many benefits offered by participation in the dual degree program are the following:

- Complementing the technical knowledge obtained in the pharmacy program with general management skills obtained in the M.B.A.
- Enhanced ability to effectively compete for managerial positions across a wide spectrum of levels in today's organizations
- Enhanced job prospects particularly for candidates intending to switch careers or striving to move up within their organizations
- The ability to effectively complete both degrees within a shorter time frame with considerable time and tuition savings through the 12 dual-counted credits

The diplomas for this dual degree program may be awarded sequentially or simultaneously. Students are not required to begin both programs in the same semester, but must be enrolled in both degrees for at least one semester prior to graduation from either program for credits to be shared across programs.

## Student learning outcomes

See each degree program page for student learning outcomes.

## Other information

### Advising

A program manager and/or faculty adviser from each program will serve as an adviser and administrative liaison for students. They will assist in developing a plan of study to meet the curriculum requirements of both programs.

## Admission requirements

Students must officially apply and be admitted to each degree program separately before the pursuit of the dual degree program may begin. It is not required to begin both programs in the same semester. View the application requirements for each program for additional details.

## Degree requirements

Students must complete a minimum of 191 total credits to earn the Master of Business Administration and Doctor of Pharmacy.

A total of nine credits may be counted toward both programs. Each of the courses below are requirements for the Pharm.D. that satisfy M.B.A. electives.

Course	Title	Hours
PHAR 513	Contemporary Pharmacy Practice	2
PHAR 526	Community Pharmacy Practice	2
PHAR 532	Introductory Pharmacy Practice Experience: Hospital Practice	3
PHAR 545	The U.S. Health Care System	2

The diplomas for this dual degree program may be awarded sequentially or simultaneously.

## Curriculum requirements for the dual degree

Course	Title	Hours
<b>Pharm.D. requirements</b>		
IPEC 501	Foundations of Interprofessional Practice	1
IPEC 502	Interprofessional Quality Improvement and Patient Safety	1
IPEC 561	IPE Virtual Geriatric Case	2
MEDC 527	Basic Pharmaceutical Principles for the Practicing Pharmacist	3
MEDC 533	Pharmacognosy	2
MEDC 542	Biotechnology-derived Therapeutic Agents	1
MEDC 543	Clinical Chemistry for the Pharmacist	1
MEDC 553	Concepts in the Medicinal Chemistry of Therapeutics Agents	1
PCEU 507	Pharmaceutics and Biopharmaceutics I	3
PCEU 508	Pharmacokinetics	3
PCEU 509	Pharmaceutics and Biopharmaceutics II	3
PCEU 615	Applied Pharmacokinetics	2.5
PHAR 501	Pharmaceutical Calculations	1

PHAR 509	Evidence-Based Pharmacy I: Introduction to Pharmacy Information Skills	1.5	PHAR 619	Clinical Therapeutics Module: Women's Health/Bone	2
PHAR 513	Contemporary Pharmacy Practice (satisfies M.B.A. elective)	2	PHAR 620	Clinical Therapeutics Module: Critical Care/Toxicology and Complex Patients	2.5
PHAR 515	Continuous Professional Development I	1	PHAR 621	Pharmacoeconomics	2
PHAR 523	Foundations I	1.5	PHAR 640	Foundations V	1.5
PHAR 524	Foundations II	1.5	PHAR 645	Foundations VI	1.5
PHAR 526	Community Pharmacy Practice (satisfies M.B.A. elective)	2	PHAR 652	Health Promotion and Communication in Pharmacy Practice	2.5
PHAR 529	Clinical Therapeutics Module: Introduction to Special Populations	2	PHAR 660	Community Pharmacy Practice Management II	2
PHAR 530	Introductory Pharmacy Practice Experience: Community Practice	4	PHAR 715	Continuous Professional Development III	1
PHAR 532	Introductory Pharmacy Practice Experience: Hospital Practice (satisfies M.B.A. elective)	3	PHAR 724	Pharmacy Law	2.5
PHAR 533	Introductory Pharmacy Practice Experience: Patient Care	.5	PHAR 730	Continuous Professional Development IV	.5
PHAR 534	Foundations III	1.5	PHAR 760	Acute Care Pharmacy Practice I	5
PHAR 535	Foundations IV	1.5	PHAR 761	Advanced Hospital Pharmacy Practice	5
PHAR 540	Self-Care and Alternative and Complementary Treatments	2.5	PHAR 763	Ambulatory Care Pharmacy Practice	5
PHAR 541	Patient Assessment in Pharmacy Practice	2	PHAR 765	Elective I	5
PHAR 544	Clinical Therapeutics Module: Cardiovascular	4.5	PHAR 766	Elective II	5
PHAR 545	The U.S. Health Care System (satisfies M.B.A. elective)	2	PHAR 767	Clinical Selective I	5
PHAR 546	Pharmacy-based Immunization Delivery	1.5	PHAR 768	Advanced Community Pharmacy Practice	5
PHAR 549	Personalized Medicine	1	PHAR 773	Acute Care Pharmacy Practice II	5
PHAR 555	Clinical Therapeutics Module: Endocrinology	2.5	PHTX 606	Introduction to Pharmacology of Therapeutic Agents	1
PHAR 556	Clinical Therapeutics Module: Neurology	4	Electives		5
PHAR 565	Evidence-based Pharmacy II: Research Methods and Statistics	2.5	<b>M.B.A. requirements</b>		
PHAR 566	Evidence-based Pharmacy III: Drug Literature Evaluation	2	• Required courses		
PHAR 602	Clinical Therapeutics Module: Psychiatry	3	ACCT 507	Fundamentals of Accounting	3
PHAR 603	Clinical Therapeutics Module: Respiratory/Immunology	2.5	ACCT 608	Managerial Accounting Concepts	3
PHAR 604	Clinical Therapeutics Module: Infectious Diseases	4.5	ECON 610	Managerial Economics	3
PHAR 605	Clinical Therapeutics Module: Hematology/Oncology	2.5	FIRE 520	Financial Concepts of Management	3
PHAR 606	Clinical Therapeutics Module: Nephrology/Urology	2	FIRE 623	Financial Management	3
PHAR 607	Clinical Therapeutics Module: Dermatology/EENT	2	INFO 661	Information Systems for Managers	3
PHAR 615	Continuous Professional Development II	1	INFO 664	Information Systems for Business Intelligence	3
PHAR 618	Clinical Therapeutics Module: Gastrointestinal/Nutrition	2.5	MGMT 641	Leading People and Organizations	3
			MGMT 642	Business Policy and Strategy	3
			MKTG 671	Marketing Management	3
			SCMA 524	Statistical Fundamentals for Business Management	3
			SCMA 675	Operations Management	3
			• Electives		
			Satisfied by PHAR 513, PHAR 526, PHAR 532 and PHAR 545		
			Total Hours		191
			<b>The minimum number of graduate credit hours required for this dual degree is 191.</b>		
			<b>Sample plan of study</b>		
			What follows is an example plan that meets the prescribed requirements. Students may work with their adviser to consider an individual enrollment		

plan that best meets their goals. Part-time enrollment and summer courses may be considered.

### P1 year

#### Fall

IPEC 501	Foundations of Interprofessional Practice	1
MEDC 527	Basic Pharmaceutical Principles for the Practicing Pharmacist	3
MEDC 533	Pharmacognosy	2
PCEU 507	Pharmaceutics and Biopharmaceutics I	3
PHAR 501	Pharmaceutical Calculations	1
PHAR 509	Evidence-Based Pharmacy I: Introduction to Pharmacy Information Skills	1.5
PHAR 515	Continuous Professional Development I (continues)	1
PHAR 523	Foundations I	1.5
PHAR 545	The U.S. Health Care System (satisfies M.B.A. elective)	2
PHAR 652	Health Promotion and Communication in Pharmacy Practice	2.5
Term Hours:		17.5

#### Spring

MEDC 553	Concepts in the Medicinal Chemistry of Therapeutics Agents <sup>1</sup>	1
PCEU 508	Pharmacokinetics	3
PCEU 509	Pharmaceutics and Biopharmaceutics II	3
PHAR 513	Contemporary Pharmacy Practice (satisfies M.B.A. elective)	2
PHAR 515	Continuous Professional Development I	1
PHAR 524	Foundations II	1.5
PHAR 526	Community Pharmacy Practice (satisfies M.B.A. elective)	2
PHAR 529	Clinical Therapeutics Module: Introduction to Special Populations <sup>1</sup>	2
PHAR 530	Introductory Pharmacy Practice Experience: Community Practice	4
PHTX 606	Introduction to Pharmacology of Therapeutic Agents <sup>1</sup>	1
Term Hours:		20.5

#### Summer

ACCT 507	Fundamentals of Accounting	3
FIRE 520	Financial Concepts of Management	3
Term Hours:		6

### P2 year

#### Fall

MEDC 543	Clinical Chemistry for the Pharmacist <sup>1</sup>	1
PHAR 534	Foundations III	1.5
PHAR 541	Patient Assessment in Pharmacy Practice	2
PHAR 544	Clinical Therapeutics Module: Cardiovascular <sup>1</sup>	4.5
PHAR 546	Pharmacy-based Immunization Delivery	1.5
PHAR 555	Clinical Therapeutics Module: Endocrinology <sup>1</sup>	2.5

PHAR 565	Evidence-based Pharmacy II: Research Methods and Statistics <sup>1</sup>	2.5
PHAR 603	Clinical Therapeutics Module: Respiratory/Immunology <sup>1</sup>	2.5
PHAR 615	Continuous Professional Development II (continues)	1
SCMA 524	Statistical Fundamentals for Business Management	3
Term Hours:		21

#### Spring

ACCT 608	Managerial Accounting Concepts	3
IPEC 502	Interprofessional Quality Improvement and Patient Safety	1
MEDC 542	Biotechnology-derived Therapeutic Agents <sup>1</sup>	1
PCEU 615	Applied Pharmacokinetics	2.5
PHAR 532	Introductory Pharmacy Practice Experience: Hospital Practice (satisfies M.B.A. elective)	3
PHAR 535	Foundations IV	1.5
PHAR 566	Evidence-based Pharmacy III: Drug Literature Evaluation	2
PHAR 604	Clinical Therapeutics Module: Infectious Diseases <sup>1</sup>	4.5
PHAR 606	Clinical Therapeutics Module: Nephrology/Urology <sup>1</sup>	2
PHAR 615	Continuous Professional Development II	1
Term Hours:		21.5

#### Summer

INFO 661	Information Systems for Managers	3
MKTG 671	Marketing Management	3
Term Hours:		6

### P3 year

#### Fall

ECON 610	Managerial Economics	3
MGMT 641	Leading People and Organizations	3
PHAR 540	Self-Care and Alternative and Complementary Treatments	2.5
PHAR 549	Personalized Medicine	1
PHAR 556	Clinical Therapeutics Module: Neurology <sup>1</sup>	4
PHAR 602	Clinical Therapeutics Module: Psychiatry <sup>1</sup>	3
PHAR 605	Clinical Therapeutics Module: Hematology/Oncology <sup>1</sup>	2.5
PHAR 640	Foundations V	1.5
PHAR 660	Community Pharmacy Practice Management II	2
PHAR 715	Continuous Professional Development III (continues)	1
Electives <sup>2</sup>		2-3
Term Hours:		25.5

#### Spring

FIRE 623	Financial Management	3
PHAR 533	Introductory Pharmacy Practice Experience: Patient Care	0.5

PHAR 607	Clinical Therapeutics Module: Dermatology/EENT <sup>1</sup>	2
PHAR 618	Clinical Therapeutics Module: Gastrointestinal/Nutrition <sup>1</sup>	2.5
PHAR 619	Clinical Therapeutics Module: Women's Health/Bone <sup>1</sup>	2
PHAR 620	Clinical Therapeutics Module: Critical Care/ Toxicology and Complex Patients <sup>1</sup>	2.5
PHAR 621	Pharmacoeconomics	2
PHAR 645	Foundations VI	1.5
PHAR 715	Continuous Professional Development III	1
PHAR 724	Pharmacy Law	2.5
Electives <sup>2</sup>		2-3
	Term Hours:	21.5

**Summer**

SCMA 675	Operations Management	3
	Term Hours:	3

**P4 year (over 45 weeks)**

INFO 664	Information Systems for Business Intelligence	3
MGMT 642	Business Policy and Strategy	3
IPEC 561	IPE Virtual Geriatric Case	2
PHAR 730	Continuous Professional Development IV	0.5
PHAR 760	Acute Care Pharmacy Practice I	5
PHAR 761	Advanced Hospital Pharmacy Practice	5
PHAR 763	Ambulatory Care Pharmacy Practice	5
PHAR 765	Elective I	5
PHAR 766	Elective II	5
PHAR 767	Clinical Selective I	5
PHAR 768	Advanced Community Pharmacy Practice	5
PHAR 773	Acute Care Pharmacy Practice II	5
	Term Hours:	48.5

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Total Hours: 191

**The minimum number of graduate credit hours required for this dual degree is 191.**

**Contacts**

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