

Doctor of Pharmacy - Graduate Certificate in Business Dual Title Program

The dual title program is designed to develop relevant business skills pertaining to operations of business in corporate, not-for-profit, and entrepreneurial settings. Courses taken in the dual title program are credited towards the M.B.A degree, and students are able to pursue remaining coursework for the M.B.A degree following completion of the Doctor of Pharmacy Program.

Eligibility:

Second Year (P2) Doctor of Pharmacy students who have obtained a Bachelors in Health Science degree with a GPA of 3.0 or higher.

Admission Requirements:

Admission to this program is contingent upon admission to the Wayne State Graduate School. Admission information is available at:

<https://ilitchbusiness.wayne.edu/management/certificate.php>

The following are admission requirements:

1. **Grade Point Average:** A GPA of 3.0 or higher, including pharmacy and pre-pharmacy coursework.

Required Application Documents:

- Bachelors in Health Science degree
- Graduate admission application www.gradapply.wayne.edu
- If already admitted to the Wayne State University Graduate School, and have previously taken graduate course work at Wayne State University, then fill out the Graduate Change of Status form <https://wayne.edu/gradschool/current/changeofstatus.pdf>
- Transcripts from other institutions (if applicable)

Application Deadline:

For purposes of curricular planning in the PharmD program, the application deadline is December 1 of the P2 year.

Program Description:

Students will take the Graduate Certificate in Business coursework concurrently with the Doctor of Pharmacy coursework. A total of 13 credits are required in this Graduate Certificate program, consisting of 8 required business course credits and 5 elective credits (all indicated by orange highlighting). The program is designed to grant dual credit such that the first 6 credits of required business course credits taken in the Graduate Certificate program will count towards the professional electives required in the PharmD program.

Graduate Certificate in Business: Course Summary (13 credits total)

Required Business Courses (8 credits)

- BA 6000 Financial Reporting: Accounting Module 2 cr
- BA 6005 Basics of Corporate Finance (course waiver information) 2 cr
- BA 6015 Marketing Foundations 2 cr
- BA 6020 Contemporary Principles of Management 2 cr

Foundation Business Electives (***choose one*** 2-credit course)

- BA 6010 Basics of Business Economics 2 cr
- BA 6025 Basics of Production/Operations Management 2 cr
- BA 6090 Quantitative Analysis: Theory and Applications 2 cr

Functional Business Electives (***choose one*** 3-credit course)

- BA 7000 Managerial Accounting 3 cr
- BA 7020 Corporate Financial Management 3 cr
- BA 7040 Managing Organizational Behavior 3 cr
- BA 7050 Marketing Strategy 3 cr
- BA 7070 Social Perspectives on the Business Enterprise 3 cr
- ISM 7505 Information Analytics: Inbound Information Technology 3 cr

**7000 level courses expire after 6 years

Renewed PharmD Curriculum 2016

First Professional Year

Course No.	Course Name	Credits	Prerequisites
FALL P-1			
PHA 4105	Pathophysiology I	3	P1 Standing
PSC 4115	Pharmaceutics I	3	P1 Standing
PSC 4125	Introduction to Pharmaceutical Sciences: Medicinal Chemistry / Pharmacology / Immunology	3	P1 Standing
PHA 4125	Drug Literature and Foundations of Research	3	P1 Standing
PPR 4115	Social Administrative Sciences and Professional Development I: Introduction to the Pharmacy Profession	2	P1 Standing
	Semester Credit Hours	14	
WINTER P-1			
PHA 4205	Pathophysiology II	2	PHA 4105 P1 Standing
PSC 4215	Pharmaceutics II	2	PSC 4115 P1 Standing
PSC 4225	Autonomic Pharmacology	2	PSC 4125 P1 Standing
PHA 4225	Principles of Pharmacotherapy I: Respiratory, Gastroenterology, Allergy, Ophthalmology, and Basic Self-Care	4	PHA 4105 P1 Standing
PHA 4235	Pharmacotherapeutic Problem Solving I: Respiratory, Gastroenterology, Allergy, Ophthalmology, and Basic Self-Care	2	P1 Standing
PPR 4245	Patient Care Lab I	1	P1 Standing
PPR 4255	Social Administrative Sciences and Professional Development II: Healthcare Systems and Social Aspects of Pharmacy	2	P1 Standing
	Semester Credit Hours	15	
SPRING P-1			
PPR 4315	Pharmacy Jurisprudence	2	P1 Standing
PPR 4365	Introductory Pharmacy Practice Experience I	1	P1 Standing
	Minimum Semester Credit Hours	3	
	P-1 Minimum Accumulated Credits	32	

Bachelor of Health Sciences with a concentration in Pharmaceutical Sciences awarded for students who have completed a minimum of 120 credit hours and a minimum of 30 credit hours at WSU

Second Professional Year

Course No.	Course Name	Credits	Prerequisites
FALL P-2			
PSC 5115	Pharmacokinetics	2	P2 Standing
PHA 5115	Principles of Pharmacotherapy II: Nephrology, Cardiology	5	P2 Standing
PHA 5125	Principles of Pharmacotherapy III: Endocrinology, Gynecology, Urology	4	P2 Standing
PHA 5135	Pharmacotherapeutic Problem Solving II: Nephrology, Cardiology, Endocrinology, Gynecology, Urology	2	P2 Standing
PPR 5145	Patient Care Lab II	1	P2 Standing
PPR 5155	Social Administrative Sciences and Professional Development III: Practice Management	2	P2 Standing
PPR 5165	Introductory Pharmacy Practice Experience II	1	P2 Standing
	Minimum Semester Credit Hours	17	
WINTER P-2			
PPR 5215	Applied Pharmacokinetics and Pharmacogenomics	2	PSC 5115 P2 Standing
PHA 5215	Principles of Pharmacotherapy IV: Infectious Diseases	4	P2 Standing
PHA 5225	Principles of Pharmacotherapy V: Neurology, Psychiatry	4	P2 Standing
PHA 5235	Pharmacotherapeutic Problem Solving III: Infectious Diseases, Neurology, Psychiatry	2	P2 Standing
PPR 5245	Patient Care Lab III	1	P2 Standing
PPR 5255	Social Administrative Sciences and Professional Development IV: Medication Use Process – Pharmacist Responsibility	2	P2 Standing
PPR 5265	Introductory Pharmacy Practice Experience III	1	P2 Standing
	Minimum Semester Credit Hours	16	
	Minimum P-2 Year Credits	33	
	Minimum Accumulated Credits	65	
SPRING/SUMMER P-2			
	Required Business Course*	2	Dual Title Admission
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	Minimum Semester Credit Hours	4	
	P-2 Minimum Accumulated Credits	69	

Student meeting admission criteria may apply for admission to the Graduate Certificate in Business prior to Spring/Summer semester of their P2 year

* Required courses (BA 6000, BA 6005, BA 6015, BA 6020) may be taken in any order

Third Professional Year

Course No.	Course Name	Credits	Prerequisites
FALL P-3			
PHA 6125	Principles of Pharmacotherapy VI: Oncology, Advanced Immunology	3	P3 Standing
PPR 6115	Applied Therapeutics in Self-Care	2	P3 Standing
PHA 6135	Pharmacotherapeutic Problem Solving IV: Oncology and Advanced Pharmacotherapeutics	3	P3 Standing
PPR 6145	Patient Care Lab IV	1	P3 Standing
PPR 6155	Social Administrative Sciences and Professional Development V: Pharmacy Practice Development	3	P3 Standing
PPR 6165 PPR 6175†	Community Introductory Pharmacy Practice Experience OR Hospital Introductory Pharmacy Practice Experience	2	P3 Standing
	Required Business Course*	2	Dual Title Admission
	Minimum Semester Credit Hours	16	
WINTER P-3			
<i>First Seven Week Block</i>			
PHA 6235	Pharmacotherapeutic Problem Solving V: Drug Induced Diseases	2	P3 Standing
<i>Second Seven Week Block</i>			
PPR 6295	Clinical Capstone	2	P3 Standing
<i>Courses Taken for Entire Semester</i>			
PPR 6235	Social Administrative Sciences and Professional Development VI: Public Health and Population Based Care	2	P3 Standing
PPR 6245	Pharmacy Ethics and Professional Responsibility	2	P3 Standing
PSC 6285	Pharmacy Seminar	1	P3 Standing
PPR 6165 PPR 6175†	Community Introductory Pharmacy Practice Experience OR Hospital Introductory Pharmacy Practice Experience	2	P3 Standing
	Required Business Course*	2	Dual Title Admission
	Foundation Business Elective¶	2	Dual Title Admission
	Minimum Semester Credit Hours	15	
	Minimum P-3 Year Credits	31	
	Accumulated Credits for Program	100	

* Required courses (BA 6000, BA 6005, BA 6015, BA 6020) may be taken in any order

† PPR 6165 and PPR 6175 are offered both semesters of the P-3 year with ½ of students alternating between each course

¶ One Foundation Business Elective (BA 6010, BA 6025, BA 6090).

Fourth Professional Year

Course Number	Course Name	Credits	Prerequisites
<i>Students must complete 5 required APPE courses and 2 elective APPE courses over the academic year.^</i>			
	Functional Business Elective‡	3	Dual Title Admission
PPR 7410	Advanced Practice Patient Care 1 (Inpatient Acute Care)	4	P4 Standing
PPR 7420	Advanced Practice Patient Care Core	4	P4 Standing
PPR 7430	Ambulatory Care	4	P4 Standing
PPR 7550	Advanced Practice General Hospital	4	P4 Standing
PPR 7560	Advanced Practice General Community	4	P4 Standing
PPR 7530	Advanced Practice Elective (Patient Care)^	4	P4 Standing
PPR 7540	Advanced Practice Elective (Non-Patient Care)^	4	P4 Standing
	Total Credits for Year	31	
	Accumulated Credits for Program	131	

‡ One Functional Business Elective (BA 7000, BA 7020, BA 7040, BA 7050, BA 7070, BA 7505) is recommended to be taken during off rotation. Required courses in the Graduate Certificate program must be successfully completed prior to the enrolling in the 7000 level Functional Business Elective.

^ Student must take 5 required APPE courses and 2 APPE Electives. The two electives courses can be taken in any combination [i.e. 2 patient care electives (PPR 7530), 2 non-patient care electives (PPR 7540), or 1 of each type (PPR 7530 and PPR 7540)].