

PharmD/MBA Dual Degree Program

The PharmD/MBA program provides an opportunity to earn a dual degree through an integrated curriculum. Successful completion of the dual degree program leads to the awarding of two degrees. The PharmD degree is awarded by the College of Pharmacy and Pharmaceutical Sciences (CPPS), and the MBA degree is awarded by the College of Business and Innovation (COBI).

MBA Degree

The MBA program requires a minimum of 33 credit hours at the 6000-level. Up to 18 additional credit hours may be required if a student does not have an academic background in business. The dual degree program permits up to 12 credit hours from the College of Pharmacy and Pharmaceutical Sciences to be applied toward the MBA program. The College of Pharmacy and Pharmaceutical Sciences courses can replace one MBA Common Body of Knowledge Course and three MBA electives. All courses taken in the College of Pharmacy and Pharmaceutical Sciences that are to be applied towards MBA program requirements must be earned with a grade of C (2.0) or better. All grades earned in College of Pharmacy and Pharmaceutical Sciences courses that are applied towards MBA program requirements will impact the overall graduate GPA.

Potential Matriculation Pathway:

<u>Year</u>	<u>Fall Semester</u>	<u>Spring Semester</u>	<u>Summer Semester</u>
1	Pre-Professional Pharmacy Courses	Pre-Professional Pharmacy Courses	
2	Pre-Professional Pharmacy Courses	Pre-Professional Pharmacy Courses	
<i>Application & Admission into the PharmD Program</i>			
3	PharmD Coursework	PharmD Coursework	6 BBA Courses
4	PharmD Coursework	PharmD Coursework 1 BBA Course	Intro Pharmacy Practice Experience (IPPE) 4 MBA Courses
		<i>Application & Admission into the MBA Program (Inform PharmD/MBA Program Director of acceptance)</i>	
5	PharmD Coursework 2 MBA Courses	PharmD Coursework 1 MBA Course	1 MBA Course
6	Advanced Pharmacy Practice Experiences (APPEs)	Advanced Pharmacy Practice Experiences (APPEs)	

MBA/Undergraduate Equivalents:

For students who do not have an academic background in business, the following undergraduate courses or equivalencies are required before beginning their MBA coursework.

Common Body of Knowledge (18 hours)		Hours	UT Undergrad (BBA) Equivalent w/ min grade of "C"
ACCT 5000	Financial & Managerial Accounting	3	BUAD 2040 Financial Accounting Information & BUAD 2050 Accounting for Business Decisions or ACTG 1040 Financial Accounting & ACTG 1050 Managerial Accounting
FINA 5310	Managerial Finance	3	BUAD 3040 Principles of Financial Management
FINA 5210	Economics for Business Decisions	3	ECON 1150 Principles of Macroeconomics & ECON 1200 Principles of Microeconomics
MKTG 5410	Marketing Systems	3	BUAD 3010 Principles of Marketing
OSCM 5510	Applied Business Statistics	3	BUAD 2060 Data Analysis for Business or <u>MATH 2600 Intro to Statistics</u> or PHPR 4530 or PHPR 4540 Evidence Based Pharmacy Practice I and II or any other Statistics I equivalent course
OSCM 5520	Analysis of Manufacturing & Service Systems	3	BUAD 3020 Principles of Manufacturing & Service Systems

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Common Body of Knowledge (18 hours)*		Hours	Semester Taken	Grade
ACCT 5000	Financial & Managerial Accounting	3		
FINA 5310	Managerial Finance	3		
FINA 5210	Economics for Business Decisions	3		
MKTG 5410	Marketing Systems	3		
OSCM 5510	Applied Business Statistics	3		
OSCM 5520	Analysis of Manufacturing & Service Systems	3		

**May substitute undergraduate equivalent courses as outlined on previous page*

MBA Core Courses (24 hours)		Hours	Semester Taken	Grade
BUAD 6100	Accounting for Decision-Making	3		
BUAD 6200	Corporate Finance	3		
BUAD 6300	Strategic Marketing & Analysis	3		
BUAD 6400	Results-Based Management	3		
BUAD 6500	International Business	3		
BUAD 6600	Supply Chain Management	3		
BUAD 6800	Information Technology & E-Business	3		
BUAD 6900	Strategic Management Capstone	3		

Elective Courses (minimum of 9 hours at the 6000-level)^		Hours	Semester Taken	Grade

^May substitute approved Administration, Leadership, or Management Advanced Pharmacy Practice Experiences (APPEs)

Frequently Asked Questions:

- Can both the PharmD and MBA degrees be completed during the normal PharmD degree timeline?
 - Yes, the coursework for both programs can be completed in the 6 calendar years of the PharmD program
- Which Common Body of Knowledge Courses should a student take depending on their educational level?
 - Once a student has received an undergraduate degree and admitted/enrolled into the MBA program the common body of knowledge courses must be taken at the graduate level (5000 level).
 - MBA students are not permitted to enroll in and apply undergraduate level courses toward the MBA degree requirements. They must take the 5000 level courses
 - Undergraduate students are not permitted to enroll in 5000 level courses
 - To complete the Undergraduate Equivalent Courses, a student would take 7 more courses
 - The other undergraduate equivalency courses are usually offered fall, spring and summer semesters
 - Up to 7 credits can be taken pass/no credit and can be applied to the business courses, English composition, humanities/fine arts, diversity studies and social sciences
- Can students take the BBA courses during their Pre-professional pharmacy years?
 - Yes, if students have room in their schedule, they may take the undergraduate COBI courses that are equivalent to the 5000 MBA courses. Students must meet the pre-requisites (i.e. hours, courses) and may need to request a permit from COBIadvising@utoledo.edu
- Can students declare a business minor?
 - Yes, if a student is interested in declaring a business minor, they **MUST** either complete the appropriate web form (<https://www.utoledo.edu/business/StuServ/Forms.html>) or meet with one of the COBI Undergraduate advisors to complete necessary paperwork
 - Students would need one additional computer course and one additional business minor course to meet the business minor requirement along with the other BBA courses
 - Visit this link for Business Minor requirements: <https://catalog.utoledo.edu/undergraduate/business-innovation/business-minors-non-business-students/>

- Can business courses from other academic institutions be applied to the undergraduate courses/equivalencies?
 - Yes, but it must be a direct equivalency. COBI encourages the use of [Transferology](#) when making these decisions.

- Are there opportunities for courses to count towards both the PharmD and MBA programs?
 - Yes, three of the 5000-6000 level MBA courses, will fulfill the 7 credits of graduate elective requirement for the PharmD program
 - Yes, the 9 hours of elective course work can be fulfilled by 3 APPE rotations from the Administration, Leadership, or Management Type (12 credits)
 - Yes, OSCM 5510 is satisfied by the PREP Curriculum (MATH 2600) and/or PharmD Curriculum (PHPR 4530 & 4540). ECON 1150 or 1200 will also satisfy one of the PREP core requirements.

- Are MBA courses offered during the summer?
 - Yes, the 6000 level BUAD courses can be taken over the summers between P2 & P3 and P3 & P4 years

- If students are accepted into the PharmD program and want to complete an MBA, are they automatically enrolled?
 - No, the admission process for the PharmD and MBA degrees will require that students apply and be admitted to each program separately (see matriculation pathway for proposed application timeline).
 - There are separate applications and fees for each program.
 - They must meet admission requirements set by CPPS and COBI, respectively.

- Do students need to notify anyone of their plan to complete the dual degree program?
 - Yes, first, students should notify the PharmD/MBA program director when they decide they would like to pursue both degrees
 - Students must also notify the PharmD/MBA program director when they have been officially accepted into the MBA program by COBI.

- Do students have to take the PCAT or GMAT for admission to either degree program?
 - No, the PCAT is not required for PharmD admission.
 - If the student has been accepted into the PharmD program, the COBI Office of Graduate Programs will waive the GMAT requirement.
<https://catalog.utoledo.edu/graduate/business-innovation/departments-schools/college-programs/mba/#admissiontext>

- Who should students go to for advising?
 - PharmD related coursework – PharmD Program Academic or Professional Advisor
 - Undergraduate Business Courses – COBI Undergraduate Student Services Center
 - MBA Courses – COBI Office of Graduate Programs Advisor
 - General PharmD/MBA Program Questions – Director of PharmD/MBA Program (CPPS)

MBA Admissions Procedures:

For admission to the program, The University of Toledo MBA program requires a 2.7 undergraduate GPA and a score of 450 on the Graduate Management Admissions Test (GMAT). The GMAT is waived for pharmacy students who have completed the PCAT and/or have already been accepted in the University of Toledo College of Pharmacy & Pharmaceutical Sciences Doctor of Pharmacy (PharmD) program.

ALL APPLICANTS must submit the following documents to the College of Graduate Studies:

- [Online application for graduate admission.](#)
- \$45 non-refundable application fee.
- Typed Statement of Purpose (1-2 pages is fine).
- Official transcript from each collegiate institution attended other than The University of Toledo.
- Students must contact the COBI Graduate Programs Office to determine that the GMAT waiver has been applied to the application based on PharmD admission status and provide an updated resume/curriculum vitae.
 - Applicants with below a 2.7 undergraduate cumulative GPA must submit a GMAT unless they meet one of the following criteria for a waiver:
 - 3-5 years of relevant, significant, and progressive work experience as determined by the Associate Dean of the College of Business and Innovation
 - Already has completed a graduate degree from a USA institution
 - Similar passing test is substituted, such as GRE, MCAT, PCAT, or LSAT.
- A College of Business and Innovation Office of Graduate Programs admission committee determine eligibility for admission based on an admission interview on a case by case bases
- [One Letter of Recommendation.](#) Recommendations can be provided by individuals who know you from an academic background or professional working relationship. Recommendations from friends or family members are unacceptable and will not be reviewed.
- Final admissions decisions will be withheld until the application for admission is complete. No materials submitted to the University will be returned to the applicant.

Suggested Detailed Curriculum for the PharmD/MBA Dual Degree Program

The curriculum as outlined in the current catalog is subject to modifications with immediate implementation to keep pace with changing trends in pharmaceutical education and in accordance with accreditation standards.

P1 Year

Fall Semester (18 credits)

MBC 3310 Medicinal Chemistry I.....	2
MBC 3550 Physiological Chemistry I.....	3
PHCL 3700 Pharmacology I.....	3
PHPR 3000 Pharmaceutics and Dosage Form Design.....	5
PHPR 3050 Interprofessional Approach to Patient Care.....	1
PHPR 3300 Commonly Prescribed Meds and Med Term 1.....	1
PHPR 3450 Pharmacy Skills Development-1.....	2
PHPR 3920 IPPE-1.....	1

Spring Semester (18 credits)

MBC 3552 Physiological Chemistry II.....	2
MBC 3860 Microbiology with lab.....	2
PHM 3000 Integrated Pharmaceutical and Clinical Sciences 1.....	6
PHPR 3250 Introduction to Self Care.....	1
PHPR 3310 Introduction to Pharmacy Law.....	1
PHPR 3460 Pharmacy Skills Development-2.....	2
PHPR 3470 Pharmacokinetics.....	3
PHPR 3930 IPPE-2.....	1

Optional summer for pre-MBA (18 credits)

ECON 1150 Principles of Macroeconomics
ECON 1200 Principles of Microeconomics
BUAD 2040 Financial Accounting Information
BUAD 2050 Accounting for Business Decisions
BUAD 3010 Principles of Marketing
BUAD 3020 Principles of Manufacturing & Service Systems

P2 Year

Fall Semester (17 credits)

PHM 4000 Integrated Pharmaceutical and Clinical Sciences 2.....	8
PHPR 4220 Medication Therapy Management.....	2
PHPR 4300 Commonly Prescribed Meds and Med Term 2.....	1
PHPR 4350 Pharmacy Skills Development-3.....	2
PHPR 4530 Evidence Based Pharmacy Practice I.....	3
PHPR 4920 IPPE-3.....	1

Spring Semester (14.5-17.5 credits)*

PHM 4200 Integrated Pharmaceutical and Clinical Sciences 3.....	8
PHPR 4270 Health Systems.....	1.5
PHPR 4360 Pharmacy Skills Development-4.....	2
PHPR 4930 IPPE-4.....	1
PHPR 4540 Evidence Based Pharmacy Practice II.....	2
BUAD 3040 Principles of Financial Management.....	3

*MBA Application and Admission

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P3 Year

Summer Semester Immediately Following P2 Year and institutional IPPE placement Institutional IPPE placement (2 weeks)
(12 credits coursework)

BUAD 6100 – Accounting for Decision Making (pre-req: BUAD 2040 & 2050 or ACCT 5000)

BUAD 6300 - Strategic Marketing and Analysis (pre-req: BUAD 3010 or MKGT 5410)

BUAD 6400 - Results-Based Management

BUAD 6800 - Information Technology and E-Business

Fall Semester (17 or 19 credits)

PHM 6000 Integrated Pharmaceutical and Clinical Sciences 4.....	7
PHPR 6000 Drug Information Seminar (fall or spring)	2
PHPR 6220 Pharmacoeconomics and Outcomes Research.....	1
PHPR 6460 Pharmacy Skills Development-5.....	2
PHPR 6920 IPPE-5.....	1
*Graduate Professional Electives (BUAD 6200)	3 (pre-req: BUAD 3040 or FINA 5310)
*Graduate Professional Electives (BUAD 6500)	3

Spring Semester (16 or 18 credits)

PHM 6200 Integrated Pharmaceutical and Clinical Sciences 5.....	5
PHPR 6000 Drug Information Seminar (fall or spring).....	2
PHPR 6250 Advanced Self-care.....	3
PHPR 6270 Business Aspects of Pharmacy.....	2
PHPR 6310 Jurisprudence & Ethics.....	1
PHPR 6470 Pharmacy Skills Development-6.....	2
*Graduate Professional Electives (BUAD 6600).....	3 (pre-req: OSCM 5520)

Optional summer for MBA (3 credits)

BUAD 6900 - Strategic Management Capstone (pre-req: BUAD 6100, 6200, 6300, and 6600)

P4 Year

Fall Semester:

PHPR 8940:001 Advanced Pharmacy Practice Experience I.....	4
PHPR 8940:002 Advanced Pharmacy Practice Experience II.....	4
PHPR 8940:003 Advanced Pharmacy Practice Experience III.....	4
PHPR 8940:004 Advanced Pharmacy Practice Experience IV.....	4
PHPR 8940:005 Advanced Pharmacy Practice Experience V.....	4

Spring Semester

PHPR 8940:006 Advanced Pharmacy Practice Experience VI.....	4
PHPR 8940:007 Advanced Pharmacy Practice Experience VII.....	4
PHPR 8940:008 Advanced Pharmacy Practice Experience VIII.....	4
PHPR 8940:009 Advanced Pharmacy Practice Experience IX.....	4

- **3 APPE electives (Administration, Leadership, or Management Type) will be accepted for the general MBA Program**
- **Students can complete a combination of APPE electives described above and COBI electives to meet the 3 elective course requirement for the MBA program**

Note: At the end of the P4 year, students are candidates for the PharmD and MBA degrees. Degrees will be granted separately, and one can be earned without having to finish the other.

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