

# Bachelor of Science in Pharmaceutical Studies

In addition to the professional degree in pharmacy (PharmD), the KU School of Pharmacy also offers a Bachelor of Science degree in Pharmaceutical Studies (BSPS). The BSPS degree is offered only to students accepted to the Doctor of Pharmacy program. The degree is awarded to the pharmacy students upon completion of the core requirements (pre-PharmD) and the first two years (P2) of professional courses in the PharmD program. To be eligible for the BSPS degree the students must attain a minimum cumulative GPA of 2.0 and 137 (67 pre-pharmacy hours and 70 professional hours) credit hours of enrollment. The BSPS degree is an optional point to exit the pharmacy program with a bachelor's degree and allows the students to pursue other opportunities if desired. The B.S. Degree in Pharmaceutical Studies does not qualify students to take licensure exams or allow students to be recognized as a registered pharmacist.

## Undergraduate Admission to KU

Prospective students must be eligible for admission to the University of Kansas as an undergraduate student. See the Office of Admissions (<http://admissions.ku.edu/>), KU Visitor Center, 1502 Iowa St., Lawrence, KS 66044-7576, 785-864-3911, [adm@ku.edu](mailto:adm@ku.edu) for information regarding requirements. Prospective pharmacy students should declare pre-pharmacy as the major field of study. Visit the Office of International Support Services (<http://iss.ku.edu/>) for information about international admissions.

## Undergraduate Admission to the School of Pharmacy

Students should apply via PharmCAS to the School of Pharmacy during the application period (late July through February 1). When they apply, they should have completed or be on pace to complete the 68 credit hours of required pre-pharmacy courses by August of the following fall. The required pre-pharmacy curriculum may be completed at accredited schools other than KU. Students not yet at KU should submit an undergraduate application for transfer admission. International students should apply for undergraduate admission via International Admissions.

## Procedures

The School of Pharmacy admissions committee, consisting of at least 2 faculty members from each department and representation from the Deans office, determines admissions. A record documenting the required materials is created by each applicant through PharmCAS. Consideration is given to a student's overall GPA, science GPA, and GPA within the pre-pharmacy curriculum. The average GPA of past admits is approximately 3.50. Good scholarship is considered a predictor of success in the pharmacy curriculum. However, good communication skills, emotional maturity, leadership ability, professional attitude, an understanding of the pharmacy profession, work experience in a pharmacy, and interest in service to the community are also important. These additional skills may outweigh very high grades or choice of pre-pharmacy courses. Admission is competitive and depends on the number of applications received and the qualifications of the applicants.

Applications are considered and admissions are determined on a rolling basis during the PharmCAS application period. Our preferred application deadline is February 1, however the school may consider

later applications. Most admission decisions are made by March. As a condition of matriculation into the KU School of Pharmacy, all admitted students must successfully clear an investigative criminal background check and successfully obtain pharmacy intern status with the Kansas Board of Pharmacy. Successful clearance of the background check and attainment of pharmacy intern status with the Board of Pharmacy is required to enroll in the School of Pharmacy and to participate in curricular and extracurricular curricular activities including interacting with patients. Instructions for completing the background check are provided with the letter of acceptance.

The Bachelor of Science degree in Pharmaceutical Studies is awarded to the pharmacy students upon completion of the core requirements (pre-PharmD) and the first two years (P2) of professional courses in the PharmD program. To be eligible for the BSPS degree the students must attain a minimum cumulative GPA of 2.0 and 137 (67 pre-pharmacy hours and 70 professional hours) credit hours of enrollment.

Code	Title	Hours
<b>Science Requirements</b>		
BIOL 150	Principles of Molecular and Cellular Biology	3
BIOL 240	Fundamentals of Human Anatomy	3
BIOL 400	Fundamentals of Microbiology	3
BIOL 402	Fundamentals of Microbiology Laboratory	2
BIOL 546	Mammalian Physiology	3
BIOL 547	Mammalian Physiology Laboratory	2
CHEM 130	General Chemistry I	5
CHEM 135	General Chemistry II	5
CHEM 331	Organic Chemistry I Laboratory	2
CHEM 335	Organic Chemistry II	3
CHEM 336	Organic Chemistry II Laboratory	2

Code	Title	Hours
<b>Math Requirements</b>		
MATH 115	Calculus I	3
MATH 365	Elementary Statistics	3

Code	Title	Hours
<b>Required Pharmacy Courses</b>		
MDCM 601	Medicinal Biochemistry I	3
MDCM 603	Medicinal Biochemistry II	3
MDCM 625	Medicinal Chemistry I: Neuroeffector and Cardiovascular Agents	4
MDCM 626	Medicinal Chemistry II: Homeostatic Agents	4
PHAR 500	Introduction to Pharmacy	1
PHAR 510	Pharmacy Skills I-A	1
PHAR 512	Pharmacy Skills I-B	1
PHAR 515	Pharmacy Skills II-A	1
PHAR 517	Pharmacy Skills II-B	1
PHAR 520	Pharmacy Skills III	1
PHAR 550	Introductory Pharmacy Practice Experience - Community	4
PHCH 517	Pharmacy Calculations	2
PHCH 518	Physical-Chemical Principles of Solution Dosage Forms	3
PHCH 625	Pharmacokinetics	3
PHCH 626	Biopharmaceutics and Drug Delivery	3

PHCH 667	Introduction to Clinical Chemistry	2
PHPR 541	Foundations of Interprofessional Collaboration I	0
PHPR 542	Foundations of Interprofessional Collaboration II	0
PHPR 618	Hospital and Health-System Pharmacy	1
PHPR 619	Health Care Systems and Informatics	3
PHPR 620	Ethical, Legal, and Cultural Issues in Patient Care	2
PHPR 661	Pharmacotherapy I	4
PHPR 662	Pharmacotherapy II	4
PHPR 663	Pharmacotherapy III	4
P&TX 630	Pharmacology I	4
P&TX 631	Pharmacology II	3
P&TX 632	Pharmacology III	3
P&TX 633	Pharmacology IV	3
<b>Capstone Course</b>		
PHAR 525	Pharmacy Skills IV	1

Code	Title	Hours
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**Spring Electives**

Students should choose one elective from the following list:

MDCM 608	Medicinal Chemistry of Neurodegenerative Diseases	1
MDCM 690	Undergraduate Research	1-5
MDCM 692	Problems in Medicinal Chemistry	1-5
P&TX 647	Gut Microbiota in Health and Disease	1
P&TX 694	Undergraduate Laboratory: Research in Pharmacology and Toxicology	1-5
P&TX 698	Library Problems in Pharmacology and Toxicology	1-5
PHAR 516	Oral Presentations for the Health Professional	1
PHCH 690	Undergraduate Research in Pharmaceutical Chemistry	1-5
PHCH 694	Problems in Pharmaceutical Chemistry	1-5
PHPR 517	Medication Safety and Error Prevention	1
PHPR 521	Practical Pediatrics	1
PHPR 522	Pharmacy-Based Travel Health Services	1
PHPR 525	Ambulatory Care	1
PHPR 527	Advanced Psychiatric Pharmacy	1
PHPR 531	Managed Care Pharmacy Practice	1
PHPR 635	Problems in Pharmacy Practice	1-5
PHPR 690	Research in Pharmacy Practice	1-5