

The following courses are required for admission to the Purdue University College of Pharmacy: CHEM 261, CHEM 262, CHEM 353, CHEM 354, CHEM 431, CHEM 432, BIOL 141, BIOL 333, BIOL 375/376, BIOL 422, BIOL 121/122, PHYS 175 and PHYS 176 (or PHYS 205 and PHYS 206), STAT 241, CMST 101, MATH 230/235, ENG 101, and ECON. Requirements vary by university and many schools, including Purdue, do not require completion of a baccalaureate degree (BS or BA). You should confirm the requirements of each program in which you are interested and consult with your advisor. The following courses are a typical course of study for a **chemistry** major interested in Pharmacy school:

Fall Year 1	
General Chemistry I (CHEM 261)	4
Principles of Biol (BIOL 141)	4
Calculus I (MATH 230)	4
Rhetoric & Composition I (ENG 101)	3
1st Year Experience (UNIV 101)	1
	16
Fall Year 2	
Organic Chemistry I (CHEM 353)	4
Intermediate Physics I (PHYS 205)	5
Fundamentals of Economics (Econ 175)	3
Chemistry Seminar (CHEM 218)	1
	16
Fall Year 3	
Biochemistry I (CHEM 431)	4
Chemistry Seminar II (CHEM 318) (or year 4)	1
Human Anatomy and Physiology I (BIOL 121)	4
Core Elective	3
Concepts in Wellness and Fitness (KIN 192)	1
	13

<u>Spring Year I</u>	
General Chemistry II (CHEM 262)	4
Calculus II (MATH 235)	4
Intro to Public Speaking (CMST 101)	4
Rhetoric & Composition II (ENG 201)	3
	17

Spring Year 2

DEPARTMENT FACULTY RESEARCH INTERESTS

Dr. Brian Bohrer (Ph.D. Analytical Chemistry, Indiana University)

Environmental analysis of water samples aiming to detect the presence of agricultural and pharmaceutical pollutants using chromatography and mass spectrometry instrumentation

Dr. Shelly Blunt (Ph.D. Organic Chemistry, University of Iowa)

Synthesis of quinoline alkaloids as breast cancer target agents and nucleosides as HIV/AIDS target agents and asymmetric epoxidations to form chiral drug targets

Dr. Jeannie Collins (Ph.D. Biochemistry, University of Southern Mississippi)

Cytoskeletal proteins involved in motility, structural support, organelle transport and intracellular communication, DNA replication of both slime molds and plants

Dr. Scott Grady (Ph.D. Organic Chemistry, Saint Louis University)

Design and synthesis of mass spectrometry-based tags to characterize endogenous metabolites that can be leveraged for their cytotoxicity in drug design

Dr. Priya Hewavitharanage (Ph.D. Photochemical Sciences, Bowling Green State University)

Synthesis of fluorescent molecules for biological applications such as photodynamic therapy for the treatment of cancer

Dr. Mark Krahling (Ph.D. Analytical Chemistry, University of Wisconsin-Madisonc @-@2.95 Tdr @7.000