



## Pharmaceutical Sciences Minor

Degree Requirements: Catalog Year 2024 (updated 11/25/24)

- 18 units are required. A minimum of 9 of the 18 minor units must be upper-division (300 or 400-level).
- A minimum GPA of 2.0 is required in the minor coursework.
- A maximum of 6 units of research credit (including PCOL X99, x99H, x92, 498H) may be applied toward minor requirements.
- At least 6 units must be unique to the minor, and not double-dipped with any other degree requirements.

Course #	Title	Offered	Prerequisites	Units
CHEM 241B/ 242B/246B	Organic Chemistry Lecture II	F/Sp/Su	CHEM 241A/242A/246A	3
PSIO 202 OR PSIO 380	Anatomy & Physiology II/ Fundamentals of A&P	202-F/Sp 380-Sp	PSIO 201 (for 202) or none (for 380)	4
PCOL 196D	Joy of Drugs: Intro to PharmSci	F	None	1
PCOL 200	Drugs & Humanity	F	None (biology background recommended)	3
PCOL 300	Pharmacology of Cosmetics	Sp	CHEM 152	3
PCOL 305	Scientific Writing for Health Sciences	F/Sp	ENGL 102 AND CHEM 151	3
PCOL 310	Drug Approval: The 3 Billion Dollar Bet	F/Sp	ENGL 102	2
PCOL 313	Therapeutics in Longevity & Ageing	F	CHEM 152 and MCB 181R	3
PCOL 320	Toxicology of the Substances that Surround Us	F/Sp	CHEM 151 AND MCB 181R + 181L	3
PCOL 325	Controversies in Healthcare	F/Sp	None	3
PCOL 350	ADME: How the Body Changes Drugs	Sp	CHEM 241B AND (PSIO 202 corequisite or 380 prerequisite)	3
PCOL 355	Drug Delivery Systems	F	CHEM 241B+243B	3
PCOL 390	Biomarkers: Analysis of Drug Effect/Toxicity	F	PSIO 202 or 380 AND CHEM 241A	3
PCOL 395B	The History of Pharmacy	F/Sp	None	1
PCOL 395C	Professional Pharmacy Pathways	Sp	None	1
PCOL 395D	Exploring Careers in PharmSci	F	None	1
PCOL 396	Special Topics in Pharmacy	Varies	None	1-3
PCOL 405	Pharmaceutical Techniques	F	CHEM 241B AND BIOC 384 or 385 AND MIC 205A	3
PCOL 406	Comprehensive Human Pharmacology	F	CHEM 241A AND (PSIO 202 corequisite or 380 prerequisite )	5
PCOL 410	Medicinal Chemistry	F/Sp	CHEM 241B	4
PCOL 418	Science of Natural Products in Medicine	Sp	CHEM 241B + MCB 181R	3
PCOL 429	Neuropsychopharmacology	F	PSIO 201 or 380	3
PCOL 434	Pharmacology of Sex	Sp	CHEM 241A + PSIO 202 or 380	3
PCOL 436	Cardiovascular Pharmacology	F	MCB 181R and CHEM 152	3
PCOL 440	Rigor & Reproducibility	Sp	MCB 181R	2
PCOL 445	Over-the-Counter Drug Info	F/Sp	CHEM 152 + PSIO 202 or 380	3
PCOL 451	Introduction to Forensic Toxicology	Sp	PSIO 202 + CHEM 241A	3
PCOL 465	Infectious Disease Pharma	F	CHEM 241A + MCB 181R	3
PCOL 467	Pharma of Anti-Cancer Drugs	Sp	CHEM 241A + MCB 181R	3
PCOL 473	Pharmacogenomics	Sp	PCOL 406 AND PCOL 350 prerequisite or corequisite	3
PCOL 488	Drug Hunting for Beginners	Sp	CHEM 241B	3
PCOL X99, X99H, X92, 498H	Independent Study, Directed Research, Honors Thesis	F/Sp/Su	None	Max 6 in minor