• 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.

**Minor Course Options Include:**

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