Pharmacy
Health Professions Advisory Program

Academic Requirements for Doctoral Programs in Pharmacy (Pharm. D.)

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Highly Recommended Courses (Required by some schools)</th>
</tr>
</thead>
</table>
| **Biology**      | BIOL 220  
                      Human Anatomy  
                      BIOL 224 or BIOL 349  
                      Human Physiology or Animal Physiology  
                      BIOL 240 or BIOL 340  
                      General Microbiology or Bacteriology  
                      BIOL 321  
                      Molecular, Cell Biology, and Physiology  
                      BIOL 342  
                      Molecular Genetics  
                      ECON 204 or ECON 205  
                      Macroeconomics or Microeconomics  
                      MATH 211  
                      Calculus II  
                      PSY 250  
                      Introduction to Psychology |
| **Chemistry**    | BIOL 130  
                      Intro Genetics and Cell Biology  
                      BIOL 131  
                      Biological Diversity and Ecology  
                      CHEM 115A & B  
                      General Chemistry  
                      CHEM 335A & B  
                      Organic Chemistry  
                      CHEM 336A  
                      Organic Chemistry Lab  
                      CHEM 115A & B  
                      General Chemistry  
                      CHEM 335A & B  
                      Organic Chemistry  
                      CHEM 336A  
                      Organic Chemistry Lab  |
| **Physics**      | PHYS 210A & B  
                      General Physics  
                      PHYS 209A & B  
                      General Physics Lab  |
| **Math**         | MATH 161  
                      Calculus  |
| **Other**        | ENGL 101  
                      Expository Writing and Reading  
                      ENGL 214 or ENGL 375  
                      Literature or Composition  
                      COURSE IN PUBLIC SPEAKING  |

**Other Suggested Courses**

<table>
<thead>
<tr>
<th><strong>SCIENCE 150</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Intro to Careers in the Health Professions</td>
</tr>
</tbody>
</table>

**ADDITIONAL NOTES:**
The courses listed in the left column (with SSU equivalents) are the minimum requirements. Students are strongly encouraged to take courses from the "Recommended" and "Suggested" list (right column). Please note that some of the courses listed above, especially 300 and 400 level science courses, may have other prerequisites.

None of the Pharmacy Programs in California require the Pharmacy College Admissions Test (PCAT), but they are required by about half of the US Pharmacy Programs outside of California. For general information about pharmacy programs, go to [http://www.aacp.org](http://www.aacp.org).

For information about the SSU health professions advisory program, visit [http://www.sonoma.edu/hpac](http://www.sonoma.edu/hpac).

**Contacts:**
Ms. Elisabeth Kettmann, Administrative Coordinator  
Tel: (707) 664-2535  
Email: elisabeth.kettmann@sonoma.edu  
Dr. Joseph Lin, Director  
Tel: (707) 664-2931  
Email: linj@sonoma.edu

Sonoma State University Health Professions Advisory Program, Department of Biology  
Darwin Hall, Room 200, 1801 E. Cotati Ave., Rohnert Park, CA 94928  
Rev 5/17