



# College of Pharmacy Fact Sheet 2009-2010

## 2009 PRE-PHARMACY REQUIREMENTS:

<u>Course(s)</u>	<u>Semester Hrs.</u>	<u>Quarter Hrs.</u>
English (composition)	6	9
General Biology (minimum two semesters with laboratory)	8	12
Anatomy (must include all systems)	3	4
General Chemistry (minimum two semesters with laboratory)	8	12
Organic Chemistry (minimum two semesters with laboratory)	8	12
Physics with lab (mechanics, thermodynamics, force, and motion must be included. May be non-calculus based)	4	6
Calculus (integration and differentiation)	3	4
Speech (public speaking)	3	4
Economics (micro, macro, or general)	3	4
Sociology or Psychology	3	4
Statistics	3	4
Additional Coursework (divided among the social and behavioral sciences, humanities, fine arts, foreign language, business or computer sciences)	9	14
<b>Total Credit Hours</b>	<b>61</b>	<b>89</b>

For classes taken at  
**Chicago State University**  
2009 Pre-pharmacy Prerequisite Guide\* (Semester Hours)

<b>English</b>	<b>6</b>	<b>Organic Chemistry (with laboratory)</b>	<b>8</b>
English Composition -1230**	3	Org Chemistry -2500	4
English Composition II -1240	3	Org Chemistry II -2510	4
<b>Human Anatomy</b>	<b>3</b>	<b>General Chemistry (with laboratory)</b>	<b>8</b>
Zoology -2050	4	General Chemistry -1550	4
<b>Calculus</b>	<b>3</b>	General Chemistry -1560	4
Calculus -1410**	4	<b>Physics (may be non-calculus based)</b>	<b>8</b>
<b>Economics (micro, macro, or general)</b>	<b>3</b>	Physics -1510	4
Economics -1010	3	<b>Speech (public speaking)</b>	<b>3</b>
<b>Biology</b>	<b>8</b>	Speech -2030	3
Biology -1710	3	<b>General Education Electives</b>	<b>9</b>
Zoology -2040	3	(divided among the social and behavioral	
Botany -2050	3	sciences, humanities, fine arts, foreign	
Biology 1070/1080	6	language, business or computer sciences)	
and additional course	(2 or 3)	<b>Sociology</b>	
<b>Statistics</b>		Sociology -1010	3
Mathematics -1600	3	<b>Psychology</b>	
		Psychology -1100	3

\*Pre-professional courses may be taken at Chicago State University or any regionally accredited college or university. Chicago State University College of Pharmacy will determine appropriate course content.  
\*\*Course placements in these areas are determined by examination.

## Doctor of Pharmacy Program (Semester Hours)

### FIRST YEAR

<u>Fall P-1</u>	<u>Course Title</u>	<u>Credits</u>
	Pharmacy Physiology	5
	Pharmaceutical Dosage Forms I - Solid Dosage Forms	3
	Pharmaceutical Biochemistry I - Macromolecules and Metabolism	3
	Introduction to Pharmacy and Health Care Systems	3
	Professional Practice I - Introduction to Pharmacy Practice	3 (17)
<u>Spring P-1</u>		
	Pharmaceutical Biochemistry II - Molecular Biology and Pharmacogenetics	3
	Pharmaceutical Dosage Forms II - Non-solid Dosage Forms	3
	Microbiology and Immunology	4
	Research Methods and Pharmacoepidemiology	3
	Patient Assessment	2
	Professional Practice II - Public Health and Wellness	2 (17)

### SECOND YEAR

<u>Fall P-2</u>		
	Pharmaceutical Dosage Forms III - Sterile Products	2
	Principles of Pharmacokinetics	3
	Literature Evaluation and Evidence Based Medicine	2
	Drug Action, Structure, and Therapeutics I - Introduction	3
	Drug Action, Structure, and Therapeutics II - Nutrition, ANS, and Cardiovascular I	4
	Applied Patient Care I	3 (17)
<u>Intersession P-2</u>		
	Professional Practice III - Institutional Orientation	1 (1)
<u>Spring P-2</u>		
	Pharmacy Law and Ethics	3
	Applied Patient Care II	3
	Drug Action, Structure, and Therapeutics III - Cardiovascular II and Renal	4
	Drug Action, Structure, and Therapeutics IV - Endocrine, Pulmonary, and Genitourinary	4
	Professional Practice IV - Institutional	2
	Professional Electives	2 (18)

### THIRD YEAR

<u>Fall P-3</u>		
	Pharmacy Practice Management	3
	Drug Action, Structure, and Therapeutics V - Gastrointestinal, Immunological, and CNS I	4
	Drug Action, Structure, and Therapeutics VI - CNS II and Acute Care	4
	Disease and Medication Therapy Management I	3
	Professional Electives	2-4 (16-18)
<u>Spring P-3</u>		
	Health Economics and Drug Treatment Outcomes	2
	Disease and Medication Therapy Management II	2
	Complementary Medicine	2
	Drug Action, Structure, and Therapeutics VII - Infectious Disease	4
	Drug Action, Structure, and Therapeutics VIII - Virology, Oncology, and Toxicology	4
	Professional Practice V - Applied Practice Skills	1
	Professional Electives	2-4 (17-19)

### FOURTH YEAR (Including Summer Semester)

<u>Summer P-4</u>		
	Introduction to Advanced Pharmacy Practice Experience	1
	Advanced Pharmacy Practice Experience	5 (6)
<u>Fall P-4</u>		
	Advanced Pharmacy Practice Experience	5
	Advanced Pharmacy Practice Experience	5
	Advanced Pharmacy Practice Experience	5 (15)
<u>Spring P-4</u>		
	Advanced Pharmacy Practice Experience	5
	Advanced Pharmacy Practice Experience	5
	Advanced Pharmacy Practice Experience	5 (15)