

## BACHELOR OF SCIENCE IN PHARMACEUTICAL SCIENCES

*Sample Curriculum – Pharmacology Concentration (incoming class of 2019)*

### Pharmacology: Core Courses and Concentration Specific Courses

#### Core Courses

**Biological Sciences: 24 Required Credit Hours**

General Biology I (4)  
General Biology II (4)  
Biochemistry (3)  
Molecular Biology (3)  
Physiology/Pathophysiology I (4)  
Physiology/Pathophysiology II (4)  
Foundations of Pharmaceutical Science (2)

**Physical Sciences and Mathematics: 31 Required Credit Hours**

General Chemistry I (4)  
General Chemistry II (4)  
Organic Chemistry I (4)  
Organic Chemistry II (4)  
College Physics I (4)  
College Physics II (4)  
Elementary Statistics (3)  
Calculus I (4)

**Humanities and Communications: 15 Required Credit Hours**

Principles of Communication (3)  
The Pre-Modern World (3)  
The Modern World (3)  
The Contemporary World (3)  
Psychology (any PSY) **OR** Sociology (any SOC) (3 Credits Total)

**Interdisciplinary: 18 Required Credit Hours**

Scientific Reasoning and Analysis I: The Educated Scientist (2)  
Scientific Reasoning and Analysis II: The Ethical Scientist (2)  
Scientific Reasoning and Analysis III: The Scientist in Society (2)  
Thesis Research I (3)  
Thesis Research II (3)  
Thesis I (3)  
Thesis II (3)

#### Concentration Specific Courses

**Biological Sciences: 14 Required Credit Hours**

Infectious Disease Pharmacology(2)  
Neuropharmacology (3)  
Cardiovascular Disease Pharmacology(3)  
Pathophysiology/Pharmacology Selective (3,3)

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### Elective Requirements

**Elective Course Requirements: 21 Required Credit Hours**

Directed Electives: 6 Required Credit Hours

General Education Electives: 15 Required Credit Hours (*9 of these 15 credits must be in the Humanities*)

**Total Required Course Credits (including Core Courses): 102 Credit Hours**

**Total Required Elective Course Credits: 21 Credit Hours**

**Total Credits Required for Graduation: 123 Credit Hours**

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### Sample Curriculum: BSPS - Pharmacology Concentration

<b>Year 1</b>					
<b>Fall Semester</b>		<b>Credits</b>	<b>Spring Semester</b>		<b>Credits</b>
BIO 101	General Biology I	4	BIO 102	General Biology II	4
CHE 101	General Chemistry I	4	CHE 102	General Chemistry II	4
HUM 110	The Pre-Modern World	3	MAT 145	Elementary Statistics	3
COM 115	Principles of Communication	3	HUM 120	The Modern World	3
TBD	Scientific Reasoning and Analysis I: The Educated Scientist	2	TBD	Scientific Reasoning and Analysis II: The Ethical Scientist	2
<b>Total Credit Hours</b>		<b>16</b>	<b>Total Credit Hours</b>		<b>16</b>
<b>Year 2</b>					
<b>Fall Semester</b>		<b>Credits</b>	<b>Spring Semester</b>		<b>Credits</b>
CHE 211	Organic Chemistry I	4	CHE 221	Organic Chemistry II	4
PHY 212	College Physics I	4	PHY 222	College Physics II	4
HUM 210	The Contemporary World	3	TBD	Scientific Reasoning and Analysis III: The Scientist in Society	2
MAT 121	Calculus I	4	GE	General Elective	3
<b>Total Credit Hours</b>		<b>15</b>	<b>Total Credit Hours</b>		<b>13</b>
<b>Year 3</b>					
<b>Fall Semester</b>		<b>Credits</b>	<b>Spring Semester</b>		<b>Credits</b>
PSC 311	Biochemistry	3	PSC 312	Molecular Biology	3
PSC 321	Physiology/Pathophysiology I	4	PSC 322	Physiology/Pathophysiology II	4
PSC 410	Thesis I	3	PSC 412	Thesis Research I	3
TBD	Sociology <b>OR</b> Psychology	3	DE	Directed Elective	3
DE	Directed Elective	3	GE	General Elective	3
<b>Total Credit Hours</b>		<b>16</b>	<b>Total Credit Hours</b>		<b>16</b>
<b>Year 4</b>					
<b>Fall Semester</b>		<b>Credits</b>	<b>Spring Semester</b>		<b>Credits</b>
PSC 431	Foundations of Pharmaceutical Sciences	2	PSC 433	Neuropharmacology	3
PSC 432	Infectious Disease Pharmacology	2	PSC 434	Cardiovascular Disease Pharmacology	3
PSC 413	Thesis Research II	3	PSC 410	Thesis II	3
TBD	Pathophysiology/Pharmacology Selective	3	TBD	Pathophysiology/Pharmacology Selective	3
GE	General Elective	3	GE	General Elective	3
GE	General Elective	3			
<b>Total Credit Hours</b>		<b>16</b>	<b>Total Credit Hours</b>		<b>15</b>