

BACHELOR OF SCIENCE IN PHARMACEUTICAL SCIENCES

Sample Curriculum – Pharmaceutics Concentration (incoming class of 2019)

Pharmaceutics: 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: 35 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)
Calculus II (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)

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Concentration Specific Courses

Physical Sciences and Mathematics: 15 Required Credit Hours

Pharmaceutics I (3)

Pharmaceutics II (3)

Pharmacokinetics (3)

Pharmaceutics Selective (3,3)

Elective Requirements

Elective Course Requirements: 18 Required Credit Hours

Directed Electives: 6 Required Credit Hours

General Education Electives: 12 Required Credit Hours (*9 of these 12 credits must be in the Humanities*)

Total Required Course Credits (including Core Courses): 107 Credit Hours

Total Required Elective Course Credits: 18 Credit Hours

Total Credits Required for Graduation: 125 Credit Hours

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Sample Curriculum: BSPS - Pharmaceutics Concentration

Year 1					
Fall Semester		Credits	Spring Semester		Credits
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
Total Credit Hours		16	Total Credit Hours		16
Year 2					
Fall Semester		Credits	Spring Semester		Credits
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	MAT 122	Calculus II	4
MAT 121	Calculus I	4	TBD	Scientific Reasoning and Analysis III: The Scientist in Society	2
Total Credit Hours		15	Total Credit Hours		14
Year 3					
Fall Semester		Credits	Spring Semester		Credits
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
PSC 341	Pharmaceutics I	3	PSC 342	Pharmaceutics II	3
TBD	Sociology OR Psychology	3	GE	General Elective	3
Total Credit Hours		16	Total Credit Hours		16
Year 4					
Fall Semester		Credits	Spring Semester		Credits
PSC 431	Foundations of Pharmaceutical Sciences	2	PSC 411	Thesis II	3
PSC 441	Pharmacokinetics	3	TBD	Pharmaceutics Selective	3
PSC 413	Thesis Research II	3	DE	Directed Elective	3
TBD	Pharmaceutics Selective	3	GE	General Elective	3
DE	Directed Elective	3	GE	General Elective	3
GE	General Elective	3			
Total Credit Hours		17	Total Credit Hours		15