

PHARMACEUTICAL SCIENCES BACHELOR OF SCIENCE

Degree Requirements

Code	Title	Credits
UNIVERSITY FUNDAMENTAL SKILLS AND GENERAL EDUCATION		
ENGL 1150	ENGLISH COMPOSITION I	3
ENGL 1160	ENGLISH COMPOSITION II	3
CMST 1110 or CMST 2120	PUBLIC SPEAKING FUNDS ARGUMENTATION AND DEBATE	3
NSCI 3940	WRITING IN CHEMISTRY	2
ONE APPROVED STATISTICS COURSE: (preferred options: PSYC 3130 or SOC 2130 or STAT 3000 or BIOL 4110)		3-4
9 Credits of Social Sciences (includes a Diversity) - at least 2 subjects represented		9
6 Credits of Humanities & Fine Arts (includes a Diversity)		6
3 Credits of Humanities & Fine Arts from a 2nd subject (PHIL 2030 Ethics if pre-pharmacy)		3
College of Arts and Sciences Breadth Requirements		
Option I: A UNO minor, excluding Chemistry (15-18 credits); or Option II: Additional Gen Eds (12 credits); or Option III: Second major (30+ credits) (Selected in consultation with advisor.)		15
CHEMISTRY COURSES - ALL REQUIRED		
CHEM 1180 & CHEM 1184	GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY	4
CHEM 1190 & CHEM 1194	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY	4
CHEM 2250	ORGANIC CHEMISTRY I	3
CHEM 2260 & CHEM 2274	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY LABORATORY	5
CHEM 2400 & CHEM 2404	QUANTITATIVE ANALYSIS and QUANTITATIVE ANALYSIS LAB	4
CHEM 4650 & CHEM 4654	BIOCHEMISTRY I and BIOCHEMISTRY I LABORATORY	4
CHEM 4660 & CHEM 4664	BIOCHEMISTRY II and BIOCHEMISTRY II LABORATORY	4
PHARMACEUTICAL SCIENCES COURSES - ALL REQUIRED		
Pharmaceutical Science courses are coordinated/taught by College of Pharmacy faculty. Research experience may be with UNMC or UNO faculty.		
PHSI 1010	INTRODUCTION TO FOUNDATIONS AND CAREER PATHS IN PHARMACEUTICAL SCIENCES	1
PHSI 3110	CURRENT RESEARCH TOPICS IN PHARMACEUTICAL SCIENCES	1
PHSI 3210: Foundations Molecules to Medicine		3
PHSI 3310: Applications of Molecules to Medicine		3
PHSI 4010	INTRODUCTION TO PHARMACEUTICAL SCIENCE	3
PHSI 4210: Contemporary Use of Medicines		2
PHSI 4410	PHARMACEUTICAL SCIENCES RESEARCH EXPERIENCE	1

PHSI 4510: Advanced Research in Pharmaceutical Sciences 1

MAJOR ELECTIVES:

Pharmaceutical Science electives vary by semester and
according to demand. PHSI electives are selected in
collaboration with a faculty major advisor. 6

BACHELOR OF SCIENCE COGNATE COURSES: STEM - ALL REQUIRED

BIOL 1450	BIOLOGY I	5
BIOL 2740	HUMAN ANATOMY AND PHYSIOLOGY I	4
BIOL 2840	HUMAN ANATOMY AND PHYSIOLOGY II	4
MATH 1940 or MATH 1950	CALCULUS FOR BIOMEDICINE CALCULUS I	5
PHYS 1110 & PHYS 1154	GENERAL PHYSICS I and GENERAL PHYSICS LABORATORY I	5
ELECTIVES TO REACH 120 CREDIT MINIMUM		1-5

Total Credits 120-125

Freshman

Fall		Credits
ENGL 1150	ENGLISH COMPOSITION I	3
CHEM 1180 & CHEM 1184	GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY	4
MATH 1940 or MATH 1950	CALCULUS FOR BIOMEDICINE or CALCULUS I	5
PHSI 1010	INTRODUCTION TO FOUNDATIONS AND CAREER PATHS IN PHARMACEUTICAL SCIENCES	1
Credits		13

Spring

ENGL 1160	ENGLISH COMPOSITION II	3
CHEM 1190 & CHEM 1194	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY	4
BIOL 1450	BIOLOGY I	5
Humanities/Fine Arts Course #1 (add U.S. Diversity)		3
Credits		15

Sophomore

Fall		Credits
CMST 1110 or CMST 2120	PUBLIC SPEAKING FUNDS or ARGUMENTATION AND DEBATE	3
CHEM 2250	ORGANIC CHEMISTRY I	3
CHEM 2400 & CHEM 2404	QUANTITATIVE ANALYSIS and QUANTITATIVE ANALYSIS LAB	4
CAS Breadth Course #1		3
Social Science Course #1 (add Global Diversity)		3
Credits		16

Spring

CHEM 2260 & CHEM 2274	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY LABORATORY	5
Humanities/Fine Arts Course #2 (second discipline)		3
Social Science Course #2		3
CAS Breadth Course #2		3
BIOL 1160	TERMINOLOGY OF HUMAN HEALTH & DISEASE (recommended prior to or concurrent with A&P)	2
Credits		16

Junior**Fall**

CHEM 4650 & CHEM 4654	BIOCHEMISTRY I and BIOCHEMISTRY I LABORATORY	4
PHSI 3110	CURRENT RESEARCH TOPICS IN PHARMACEUTICAL SCIENCES	1
PHSI 3210: Foundations of Molecules to Medicine		3
Pharmaceutical Sciences Elective (topics vary based on interest and demand)		1
Humanities and Fine Arts Course #3 (PHIL 2030 - Intro to Ethics if pre-pharmacy)		3
CAS Breadth Course #3		3
Credits		15

Spring

CHEM 4660 & CHEM 4664	BIOCHEMISTRY II and BIOCHEMISTRY II LABORATORY	4
PHSI 3310: Applications of Molecules to Medicine		3
PHSI 4410	PHARMACEUTICAL SCIENCES RESEARCH EXPERIENCE	1
Pharmaceutical Sciences Elective (topics vary based on interest and demand)		1
CAS Breadth Course #4		3
Approved Statistics Course* (if pre-pharmacy) or Elective		3
*Approved Statistics Courses: STAT 3000; PSYC 3130; SOC 2130; BIOL 4110.		
Credits		15

Senior**Fall**

BIOL 2740	HUMAN ANATOMY AND PHYSIOLOGY I	4
PHYS 1110 & PHYS 1154	GENERAL PHYSICS I and GENERAL PHYSICS LABORATORY I	5
PHSI 4010	INTRODUCTION TO PHARMACEUTICAL SCIENCE	3
PHSI 4510: Advanced Research in Pharmaceutical Sciences		1
CAS Breadth Course #5		3
Pharmaceutical Sciences Elective (topics vary based on interest and demand)		1
Credits		17

Spring

BIOL 2840	HUMAN ANATOMY AND PHYSIOLOGY II	4
NSCI 3940	WRITING IN CHEMISTRY	2
PHSI 4210: Contemporary Use of Medicines		2
Social Science Course #3		3
Pharmaceutical Sciences Elective (topics vary based on interest and demand)		3
**NOTE: Students are required to have 120 credits minimum for a bachelor's degree. No less than 18 credits of upper level coursework in the major and 27 upper level coursework throughout the degree are required within the 120.		
Credits		14

Total Credits		121
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