

**BACHELOR OF SCIENCE / PHARMACEUTICAL SCIENCES MAJOR**

**UNIVERSITY CORE (min. 44 cr. required)**

<b>Foundation Requirements (min. of 21-31 cr.)</b>	<b>cr #</b>	<b>✓</b>
ENG 110 Composition (can test out)	0-3	_____
ENG 120 Critical Writing	4	_____
ENG 201 Writing in the Disciplines	3	_____
COM 200 Public Speaking	3	_____
CIS 101, CIS 103, CIT 110, CS 121, TS 105	3-4	_____
PHY 111 Physics I	4	_____
MAT 131 Calculus I	4	_____
<b>Second Language Proficiency (can test out)</b>		
Two Language courses* selected from: ARA/ASL/CHI/FRE/ITA/JPN/POR/RUS/SPA		
*See second language placement policy		
_____	0-3	_____
_____	0-3	_____
<b>Total Foundation Credits=</b>	<input type="text"/>	

**Areas of Knowledge (AOK; min. of 17 cr.)**

See web class schedule for list of approved courses

	<b>cr #</b>	<b>✓</b>
<b>Western Heritage - WH</b>		
1 course (formerly AOK 2)		_____
<b>World Cultures &amp; Traditions - WCT</b>		
1 course (formerly AOK 3)		_____
<b>Humanistic &amp; Creative Expressions - HCE</b>		
1 course (formerly AOK 4)		_____
<b>Analysis of Human, Social &amp; Natural Phenomena - HSN</b>		
1 course (formerly AOK 5)		_____
PHY 112 Physics II	4	_____
<b>ONE additional course from WH, WCT, HCE, or HSN</b>		_____
<b>In-Depth Sequence (12 cr.)</b>		
BIO 101 Biology I	4	_____
BIO 102 Biology II	4	_____
BIO 251 Principles of Human Anatomy	4	_____

**Required Learning Experiences:**

1 Learning Community = LC (2 linked courses) or INT Course

\_\_\_\_\_

1 Civic Engagement / Public Values = CE (formerly AOK 1)

\_\_\_\_\_

2 Writing - Enhanced Courses = WEC

\_\_\_\_\_

2 Anti-Racist Education Courses = ARE

\_\_\_\_\_

All Can Be Satisfied by Core, Major, or Open Electives

**Total Core Credits (min. of 44 cr.)\***

**MAJOR REQUIREMENTS (66-67 cr.)**

<b>Major Courses (55 cr.)</b>	<b>cr #</b>	<b>✓</b>
CHE 111 General Chemistry I	4	_____
CHE 112 General Chemistry II	4	_____
CHE 223 Organic Chemistry I	5	_____
CHE 224 Organic Chemistry II	5	_____
CHE 300 Introduction to Physical Chemistry	4	_____
PHS/CHB 232 Bioanalytical Chemistry & Instrumentation	4	_____
CHE326/BIO 327 Biochemistry	4	_____
PHS 200 Fundamentals of Pharm Sciences	3	_____
PHS 300 Pharmaceutics	3	_____
PHS 310 Pharm Manufacturing & Regulations	3	_____
BIO 346 Introduction to Basic Pharmacology	3	_____
BIO 334 General Physiology	4	_____
BIO 335 Molecular and Cellular Biology	4	_____
PHS 480 Research in Pharm Sci	3	_____
PHS 392/492 Seminar in Pharm Sci	2	_____

**Major Elective (3-4 cr.)**

Students select at least one course from the list in consultation with an advisor

BIO 264 Microbiology	4	_____
BIO 359 Immunology	4	_____
BIO 325 Neurobiology	3	_____
BIO 231 Genetics	4	_____
CHE 331 Instrumental Analysis	4	_____
CHE 370 Membrane Transport & Ionic Channels	3	_____
BIO 232 Developmental Biology	4	_____
CHE 221 Analytical Methods and Techniques	4	_____

**Required Math and Science Courses (8 cr.)**

BIO 101 Biology I (in-depth sequence)	0	_____
BIO 102 Biology II (in-depth sequence)	0	_____
BIO 251 Principles of Human Anatomy (in-depth sequence)	0	_____
MAT 131 Calculus I (taken in Core)	0	_____
MAT 132 Calculus II	4	_____
MAT 141 Intro Statistics for the Life Sciences	4	_____
PHY 111 Physics I (taken in Core)	0	_____
PHY 112 Physics II (taken in Core)	0	_____

**Total Major Credits=**

**OPEN ELECTIVES (1-5 cr.)**

Range of credits reflects variations in a student's Univ. Core (i.e., testing out 0-9 cr. and/or choosing up to three 3-cr. courses, instead of 4 cr., in foundation requirements).

UNV 101 First Year Seminar	1	_____
_____	_____	_____

**Total Elective Credits=** \*

**Total Degree Credits (min. of 120\*)=**   
(Core + Major + Elective)