



*Suggested degree path for the*  
**BACHELOR OF SCIENCE DEGREE IN CHEMISTRY (PRE-PHARMACY;  
 CHPH)**  
 2022-23 Catalog

Name: \_\_\_\_\_ ID#: \_\_\_\_\_ Phone #: \_\_\_\_\_

	<i>Fall Semester (recommended hours)</i>	<u>Prerequisite Information</u>	<u>Hours</u>	<u>Grade</u>	<u>Year/ Semester</u>	<u>Course Sub / Suggested</u>
<b>F R E S H M A N Y E A R</b>	CHEM 105 Chemistry I (Science majors)	Pre or co MATH101	3			
	CHEM 113 Chemistry I Lab (Chemistry majors)	Co CHEM105, chem. major	1			Schedule first
	BIOL 155 General Biology I	ENGL101, MATH101 eligible	4			Includes lab
	ENGL 101 English Comp. I	ACT score or ENGL003(C)	3			
	Humanities elective		3			See catalog for options.
	UNIV 101 University Prep (UR)	First time entering freshmen and transfer students < 30 hours.	1			
						<i>Total Hours: 15</i>
	<i>Spring Semester (recommended hours)</i>					
	CHEM 106 Chemistry II (Science majors)	Pre CHEM105(C)	3			
	CHEM 114 Chemistry II Lab (Chemistry majors)	Pre CHEM113 co CHEM106	1			Schedule first
	MATH 165 Calculus I	MATH101(C) 102 or 108(C)	5			MATH100 = MATH101
	ENGL 102 English Comp. II	Pre ENGL101(C) or ACT	3			
	BIOL 156 General Biology II	Pre BIOL155(C)	4			
						<i>Total Hours: 16</i>

*Schedule your chemistry lab first since there is only one section of it. Build the rest of your schedule around it. If your math placement requires you to start with a lower math course than 165, start your math in the fall semester.*

*Scheduling of many general education courses such as the History, Humanities, Literature, Fine Arts, and Social Science electives as well as SPCH 101 and CMPS 130 is flexible. For example if there are no open sections of SPCH 101 in the spring of your sophomore year, you could take CMPS 130 then and take SPCH 101 later. Be sure to check the prerequisites for each course.*

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<b>S O P H O M O R E Y E A R</b>	CHEM 221 Organic Chem. I	Pre CHEM106	3			
	Humanities Elective (300-level or above)	See catalog.	3			See catalog for options
	PHYS 101 Physics I (Algebra/Trigonometry Based)	Pre or co MATH165	3			See note below
	PHYS 203 Gen. Physics I Lab	Pre or co PHYS101	1			
	BIOL 203 Gen. Microbiology	Pre BIOL156	3			
	BIOL 204 Gen. Micro. Lab.	Pre or co BIOL203	1			
						<i>Total Hours: 14</i>
	<i>Spring Semester (recommended hours)</i>					
	CHEM 222 Organic Chem. II	Pre CHEM221 (C)	3			
	CHEM 226 Org. Chem. Lab.	Pre CHEM114 co CHEM222	2			CHEM110 = CHEM114
	CHEM 300 Quant. Analysis	Pre CHEM106 & 114	3			CHEM110 = CHEM114
	CHEM 302 Quant. Anal. Lab.	Pre or co CHEM300	2			
	PHYS 102 Physics II (Algebra/Trigonometry Based)	Pre PHYS101	3			See note below
	PHYS 204 Gen. Physics II Lab.	Pre or co PHYS102	1			
	SPCH 101 Fund. Publ. Speak.	ENGL101 eligible	3			
						<i>Total Hours: 17</i>

*Schedule classes with only one section (e.g., PHYS 101, 102, 203 204, CHEM 221, 222, 300, 302) first. Avoid postponing Physics, that pushes back when you can take Physical Chem and upper level chemistry courses and make it difficult to finish in four years.*



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J U N I O R Y E A R	<i>Fall Semester (recommended hours)</i>	<u>Prerequisite Information</u>	<u>Hours</u>	<u>Grade</u>	<u>Year/ Semester</u>	<u>Course Sub / Suggested</u>
	CHEM 303 Physical Chem. I	Pre MATH165, CHEM106, PHYS202	3			PHYS102 = PHYS202
	CHEM 305 Phys. Chem. I Lab	Co CHEM303	1			
	CHEM 435 Biochemistry I	Pre CHEM222	3			
	CHEM 437 Biochemistry Lab.	Co CHEM435	1			
	BIOL 114 Human Anatomy and Physiology I	Pre: Eligibility for MATH 100 or 117	3			
	BIOL 115 Human A&P Lab I	Credit or enrollment in BIOL 114	1			
	MATH 301 Elem. Statistical Methods	Pre MATH165 eligible and ENGL102	3			
						<i>Total Hours: 15</i>
	<i>Spring Semester (recommended hours)</i>					
CHEM 304 Physical Chem. II	Pre CHEM303	3				
CHEM 306 Phys. Chem. II Lab.	Pre CHEM305 Co CHEM304	1				
CHEM 405 Instr. Analysis	Pre CHEM302, 303	3				
CHEM 407 Instr. Anal. Lab.	Pre or Co CHEM405	2				
BIOL 116 Human A&P II	Pre: BIOL 114	3				
BIOL 117 Human A&P II Lab	Credit or enrollment in BIOL 116	1				
ENGL 368 Tech. & Prof. Writ. or ENGL 468	Pre ENGL102(C)	3				
					<i>Total Hours: 16</i>	
S E N I O R Y E A R	<i>Fall Semester (recommended hours)</i>	<u>Prerequisite Information</u>	<u>Hours</u>	<u>Grade</u>	<u>Year/ Semester</u>	<u>Course Sub / Suggested</u>
	CHEM 412 Inorganic Chem.	Pre CHEM304	3			
	CHEM 413 Inorganic Prep.	Pre CHEM302,306 Co CHEM412	1			
	Social Science Elective 1		3			See (1) below
	CMPS 130 Intro. Comp. Sci. I	Pre MATH 100 or 101(C)	3			
	BIOL or CHEM Elective		4			See (2) below, BIOL 320 recommended
						<i>Total Hours: 14</i>
	<i>Spring Semester (recommended hours)</i>					
	CHEM 450 Senior Seminar	Pre CHEM306	1			Take during last semester
	ECON 211 Prin. Of Microeconomics	Pre ENGL101 and MATH101(C)	3			See (1) below
Fine Arts Elective		3			See catalog for options	
Humanities Elective (300-level or above)	See catalog.	3			See catalog for options	
BIOL or CHEM Elective		3			See (2) below, BIOL 440 recommended	
					<i>Total Hours: 13</i>	

**Total Hours for Degree 120**

**Approved electives:** (1) Social and Behavioral Science electives must come from ECON, GEOG, GOVT, PSYC, or SOCI. Xavier requires either PSYC 101 or SOCI 151 as a social science elective. Both ULM and William Carey require an economics course, so we require ECON 211 as the second social science course. William Carey requires Econ plus 2 social sciences (psyc, soci, political science, ethics, bioethics).

(2) ULM requires Genetics (Biol 320) and Cell Biology (Biol 440). Take those courses for the Biol/Chem Electives if you plan to apply to ULM.

**45-Hour Requirement.** You are required to have at least 45 hours from courses at the 300 and 400 level. Required courses for this concentration include 48 hours at this level. Discuss this with your advisor before registering for the first semester of your senior year to be sure that you are meeting this requirement.

This program is designed for those who want to earn a BS degree in chemistry and prepare to enter a college of pharmacy. Every pharmacy school has different requirements. Xavier requires courses not on this plan. Discuss this with your advisor where you plan to apply. Students may be able to complete pharmacy admission requirements in three years and apply to pharmacy school without a BS degree.

**UNOFFICIAL** - THIS SHEET IS FOR ADVISING ONLY. THE DEPARTMENT OF PHYSICAL SCIENCES REQUIRES THAT EACH STUDENT MEET WITH THEIR FACULTY ADVISOR.