



Suggested degree path for the
BACHELOR OF SCIENCE DEGREE IN CHEMISTRY-PROFESSIONAL (CHPR)

2019-20 Catalog

Name: _____ ID#: _____ Phone #: _____

FRESHMAN YEAR	<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 105 Intro. Chemistry I		Pre MATH101	3			
	CHEM 113 Intro Chem. I Lab		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 Intro. Chem. II		Pre CHEM105(C)	3			
CHEM 114 Intro. Chem. II Lab		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				
Humanities Elective		See catalog	3			See catalog for options	
						<i>Total Hours: 15</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. If necessary, chemistry professional majors can postpone BIOL 155.

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, CMPS 130 is listed in the fall semester of your sophomore year, but if there are no open sections when you register, you can take your literature elective then instead and take CMPS 130 later. Be sure to check the prerequisites for each course.

SOPHOMORE YEAR	<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 221 Organic Chem. I		Pre CHEM106	3			
	MATH 166 Calculus II		Pre MATH165(C)	4			
	PHYS 201 General Physics I		Pre or co MATH165	3			See note below
	PHYS 203 Gen. Physics I Lab.		Pre or co PHYS201	1			
	CMPS 130 Intro. Comp. Sci. I		Pre MATH 100 or 101(C)	3			
							<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 202 General Physics II		Pre PHYS201	3			See note below	
PHYS 204 Gen. Physics II Lab.		Pre or co PHYS202	1				
SPCH 101 Fund. Publ. Speak.		ENGL101 eligible	3				
						<i>Total Hours: 17</i>	

Schedule classes with only one section (e.g., PHYS 201, 202, 203 204, CHEM 221, 222, 300, 302) first. Avoid postponing Physics because that would push back when you can take Physical Chemistry and upper level chemistry courses and make it difficult to finish in four years.



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JUNIOR YEAR	<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 319 Intro. Chemical Lit.		Pre CHEM222, 300	1				
	CHEM 435 Biochemistry I		Pre CHEM222	3				
	CHEM 437 Biochemistry Lab.		Co CHEM435	1				
	FREE ELECTIVES			6			See (2) below	
							TOTAL: 15 hours	
	<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					
ENGL 368 Tech. & Prof. Writ. or ENGL 468 Technical Writing for the Sciences		Pre ENGL102(C)	3					
CHEM 451		Pre permission	2					
In-Depth CHEM ELECTIVE			3			CHEM 421, 436, or 490		
						TOTAL: 17 hours		

SENIOR YEAR	<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	
	In-Depth CHEM ELECTIVE			3			CHEM 421, 436, or 490	
	FREE ELECTIVES			4/5			See (2) below	
							TOTAL: 14/15	
	<i>Spring Semester (recommended hours)</i>							
	CHEM 450 Senior Seminar		Pre CHEM306, 319	1			Take during last semester	
	Social Science Elective 2			3			See (1) below	
Fine Arts Elective			3			See catalog for options		
Humanities Elective		See catalog	3			See catalog for options		
FREE ELECTIVES		See catalog	3/2			See (2) below		
						TOTAL: 13/12		

Total Hours for Degree 120

Approved electives:

- (1) Social and Behavioral Science electives must come from ECON, GEOG, GOVT, PSYC, or SOCI. Two courses are required.
 (2) Free Electives, 14 hours, can be from any discipline. Recommended choices: CHEM 327, 421, 436, 451, 452, 480, 481, 490; MATH 265, 355, 358, 360, 407, BIOL xxx, GEOL xxx. NOTE: CHEM 490 may be repeated if content is different. CHEM 421, 436, or 490 may count towards free elective after In-Depth CHEM electives are satisfied.

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 39 ours at this level. To fulfill the 45 hour requirement, at least 6 hours of GenEd or Free Electives must be at the 300 and 400 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.