



*Suggested degree path for the*  
**BACHELOR OF SCIENCE DEGREE IN CHEMISTRY (PRE-MED/PRE-DENT; CHDM)**  
**2021-22 Catalog**

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

<b><i>Fall Semester (recommended hours)</i></b>		<b><u>Prerequisite Information</u></b>	<b><u>Hours</u></b>	<b><u>Grade</u></b>	<b><u>Year/ Semester</u></b>	<b><u>Course Sub / Suggested</u></b>
<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			
	BIOL 155 General Biology I	ENGL101, MATH101 eligible	4			
	ENGL 101 English Comp. I	ACT score or ENGL003(C)	3			
	Humanities elective 1		3			
	UNIV 101 University Prep (UR)	First time entering freshmen and transfer students < 30 hours.	<b>1</b>			<i>Total Hours: 15</i>
<b><i>Spring Semester (recommended hours)</i></b>						
	CHEM 106 Chemistry II (Science majors)	Pre CHEM105(C)	3			
	CHEM 114 Chemistry II Lab (Chemistry majors)	Pre CHEM113 co CHEM106	1			
	MATH 165 Calculus I	MATH101(C) 102 or 108(C)	5			
	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>

*Pre-med students should be actively seeking opportunities for campus and community involvement. Also, they should have clinical experience where they interact with patients in a medical setting. Join the Pre-med Association (PMA) and meet regularly with your Departmental Adviser.*

<b><i>Fall Semester (recommended hours)</i></b>		<b><u>Prerequisite Information</u></b>	<b><u>Hours</u></b>	<b><u>Grade</u></b>	<b><u>Year/ Semester</u></b>	<b><u>Course Sub / Suggested</u></b>	
<b>S O P H O M O R E Y E A R</b>	CHEM 221 Organic Chem. I	Pre CHEM106	3				
	PHYS 101 Physics I (Algebra/Trigonometry Based)	Pre or co MATH 102 or 108	3				
	PHYS 203 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				
	ENGL 368 Tech. & Prof. Writ. or ENGL 468	Pre ENGL102(C)	3				
	MATH 301 Elem Statistical Methods	Pre ENG102, Eligibility for MATH165	3				
						<i>Total Hours: 17</i>	
	<b><i>Spring Semester (recommended hours)</i></b>						
		CHEM 222 Organic Chem. II	Pre CHEM221 (C)	3			
	CHEM 226 Org. Chem. Lab.	Pre CHEM114 co CHEM222	2				
	CHEM 300 Quant. Analysis	Pre CHEM106 & 114	3				
	CHEM 302 Quant. Anal. Lab.	Pre or co CHEM300	2				
	PHYS 102 Physics II (Algebra/Trigonometry Based)	Pre PHYS101	3				
	PHYS 204 Physics II Lab.	Pre or co PHYS102	1				
						<i>Total hours: 14</i>	

*Schedule classes with only one section (e.g., PHYS 101, 102, 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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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			
	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			
	Social Science Elective 1	See catalog	3			<i>Recommend PSYC 101</i>
	BIOL or CHEM Elective (300 level or above)		3			<i>Recommend: Physiology (BIOL 326)</i>
	Prepare for the MCAT during Fall of Jr Year. Student should devote 3 months to preparation					<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 or CHEM Elective (300 level or above)		3			<i>Recommend Biochemistry II (CHEM 436)</i>	
BIOL or CHEM Elective (300 level or above)		3			<i>Recommend Immunology (BIOL 428) or Histology (BIOL 304)</i>	
Take the MCAT during Spring of Jr Year. Request Committee Letter during Spring AMCAS opens on May 1 <sup>st</sup> .					<i>Total Hours: 15</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>
	BIOL or CHEM Elective (300 level or above)		4			<i>Recommend: Inorganic Chemistry (CHEM 412/413)</i>
	Humanities Elective 2		3			
	CMPS 130 Intro. Comp. Sci. I	Pre MATH 100 or 101(C)	3			
	BIOL or CHEM Elective		5			<i>Recommend: Advanced Anatomy (BIOL 461, 5 hrs)</i>
						<i>Total hours: 15</i>
	<i>Spring Semester (recommended hours)</i>					
	CHEM 450 Senior Seminar	Pre CHEM306, 319	1			
	Social Science Elective 2		3			
	Fine Arts Elective		3			
Humanities Elective 3	See catalog.	3				
SPCH 101 Fund. Publ. Speak.	ENGL101 eligible	3			<i>Total Hours: 13</i>	

**Total Hours for Degree                      120**

LSU medical schools recommend some biology courses; see their admission requirements for a complete list. These courses will prepare you to succeed in medical school: Biochemistry II (CHEM 436, 3hr, pre: CHEM 435), Advanced Anatomy (BIOL 461, 5hr, pre: BIOL 156), Immunology (BIOL 428, 3 hrs, pre: BIOL 203/204), Histology (BIOL 304, 4 hrs, pre: BIOL 156 and CHEM 221), Developmental Biology (BIOL 332, 4 hrs, pre: BIOL 156), Physiology (BIOL 326, 4 hrs, pre: BIOL 156), Genetics (BIOL 320, 4 hrs, pre: BIOL 156),

**45-Hour Requirement.** You are required to have at least 45 hours from courses at the 300 and 400 level.