



Suggested degree path for the  
**BACHELOR OF SCIENCE DEGREE IN CHEMICAL SCIENCES (CHSC)**

**2019-2020 Catalog**

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

FRESHMAN YEAR	<i><b>Fall Semester (recommended hours)</b></i>	<u><b>Prerequisite Information</b></u>	<u><b>Hours</b></u>	<u><b>Grade</b></u>	<u><b>Year/ Semester</b></u>	<u><b>Course Sub / Suggested</b></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.	<b>1</b>			
						<i>Total Hours: 15</i>
	<i><b>Spring Semester (recommended hours)</b></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><b>Fall Semester (recommended hours)</b></i>	<u><b>Prerequisite Information</b></u>	<u><b>Hours</b></u>	<u><b>Grade</b></u>	<u><b>Year/ Semester</b></u>	<u><b>Course Sub / Suggested</b></u>
	CHEM 221 Organic Chem. I	Pre CHEM106	3			
	Social Science Elective 1		3			
	PHYS 101 Basic Physics I	Pre MATH 102	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			
	SPCH 101 Fund. Publ. Speak.	ENGL101 eligible	3			
						<i>Total hours: 16</i>
	<i><b>Spring Semester (recommended hours)</b></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 Basic Physics II	Pre PHYS101	3			See note below
	PHYS 204 Gen. Physics II Lab.	Pre or co PHYS202	1			
						<i>Total hours: 14</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.*

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



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

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			
	CHEM ELECTIVE		3			at 300 level or higher
	FREE ELECTIVE		3			See (3) 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.	Pre ENGL102(C)	3			
	CHEM ELECTIVE		3			at 300 level or higher
						TOTAL: 15 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			
	CHEM ELECTIVE		3			at 300 level or higher
	FREE ELECTIVES		7/8			See (3) 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	6/5			See (3) below
						TOTAL: 16/15

**Total Hours for Degree      120**

**Approved electives:**

(1) For a complete list of general education electives, visit this site: <https://www.nicholls.edu/general-education/>

(3) CHEM Electives 9 hours. Free Electives: 21 hours can be from any discipline. Recommended choices: CHEM 319, 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.

**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 40 hours at this level. To fulfill the 45 hour requirement, at least 5 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.