



*Suggested degree path for the*  
**DUAL MAJOR IN CHEMICAL SCIENCES (CHSC)**

2018-2019 Catalog

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

DEPENDING ON YOUR FIRST MAJOR, IF YOU TAKE AN AVERAGE OF 18 HOURS EVERY SEMESTER AND HAVE AT LEAST 3 HOURS OF ADVANCED CREDIT (ACT, AP, CLEP), YOU MAY BE ABLE TO COMPLETE A CHSC MAJOR IN ADDITION TO ANOTHER MAJOR (SUCH AS BIOLOGY) WITHIN FOUR YEARS. TO DO SO,

1. YOU MUST TAKE ALL THE COURSES LISTED BELOW (73 hours).
2. YOU MUST HAVE AT LEAST 30 HOURS OF COURSEWORK BEYOND WHAT YOUR FIRST MAJOR REQUIRES. Courses below that count toward your first major do not count towards the 30 additional hours. Courses that you took that did not count towards the first major will count towards the 30 additional hours.

Figuring out how much more time would be required,

1. Identify all courses below that you have to take for your first major anyway. Add up the total hours for these: \_\_\_\_\_; these cannot be included in the 30 additional hours required for a second major.
2. Subtract #1 from 73 hours. If this number is 30 or more, you just need to take the remaining courses below. If this number is less than 30, ANY other course with a grade of at least D (C for CHEM) or S, including advanced credit) can count towards the 30 additional hours required. Meet your adviser so you plan ahead taking into account prerequisites and some courses that are only offered once a year (Fall or Spring).

FRESHMAN YEAR	<i>Fall Semester (recommended hours)</i>		<u>Prerequisite Information</u>	<u>Hours</u>	<u>Grade</u>	<u>Year/ Semester</u>	<u>COMMENTS</u>
	CHEM 105 Intro. Chemistry I		Pre MATH101	3			
	CHEM 113 Intro Chem. I Lab		Co CHEM105, chem. major	1			
	BIOL 155 General Biology I		ENGL101, MATH101 eligible	4			
	<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			CHEM 110 = CHEM 113 & 114
	MATH 165 Calculus I			5			

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			
	PHYS 101 Basic Physics I		Pre MATH 102	3			Or PHYS 201. <b>FALL ONLY.</b>
	PHYS 203 Gen. Physics I Lab.		Pre or co PHYS201	1			<b>FALL ONLY.</b>
	CMPS 130 Intro. Comp. Sci. I		Pre MATH 100 or 101(C)	3			
	<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 Basic Physics II		Pre PHYS101	3			<b>SPRING ONLY.</b>	
PHYS 204 Gen. Physics II Lab.		Pre or co PHYS202	1			<b>SPRING ONLY.</b>	



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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			<b>FALL ONLY.</b> PHYS102 = PHYS202
	CHEM 305 Phys. Chem. I Lab	Co CHEM303	1			<b>FALL ONLY.</b>
	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			<i>at 300 level or higher</i>
<i>Spring Semester (recommended hours)</i>						
CHEM 304 Physical Chem. II	Pre CHEM303	3			<b>SPRING ONLY.</b>	
CHEM 306 Phys. Chem. II Lab.	Pre CHEM305 Co CHEM304	1			<b>SPRING ONLY.</b>	
CHEM 405 Instr. Analysis	Pre CHEM302, 303	3			<b>SPRING ONLY.</b>	
CHEM 407 Instr. Anal. Lab.	Pre or Co CHEM405	2			<b>SPRING ONLY.</b>	
CHEM ELECTIVE		3			<i>at 300 level or higher</i>	

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 ELECTIVE			3		
<i>Spring Semester (recommended hours)</i>						
CHEM 450 Senior Seminar	Pre <b>CHEM303</b> , 319	1				Take during last semester
CHEM 412 Inorganic Chem.	Pre CHEM <b>303</b>	3				<b>SPRING ONLY.</b>
CHEM 413 Inorganic Prep.	Pre CHEM302, <b>303</b> Co CHEM412	1				<b>SPRING ONLY.</b>