Name: _____ ID#: _____ Phone #: _____

FRESHMAN YEAR

Fall Semester (recommended hours)	Prerequisite Information	Hours	Grade	Year/ Semester	Course Sub / Suggested
CHEM 105 Intro. Chemistry I	Pre or co MATH101	3			
CHEM 113 Intro Chem. I Lab	Co CHEM105, chem. major	1			Schedule first
BIOL 155 General Biology I	Eligible for ENGL101, and MATH102	4			Includes lab
ENGL 101 English Comp. I	ACT score or ENGL003(C)	3			
Humanities elective		3			101,102,105,106, 150, 151, 160, 161, 201, 255or 256,
UNIV 101 University Prep (UR)	First time entering freshmen and transfer students < 30 hours.	**1**			
					Total Hours: 15

Spring Semester (recommended hours)					
CHEM 106 Intro. Chem. II	Pre CHEM105(C)	3			
CHEM 114 Intro. Chem. II Lab	Pre chemistry major & CHEM113 co CHEM106	1			Schedule first
MATH 165 Calculus I	MATH100(C),101(C) 102 (C) or 108(C)	5			
ENGL 102 English Comp. II	Pre ENGL100 (C), 101(C) or placement test	3			
BIOL 156 General Biology II	Pre BIOL 155 (C)	4			Includes lab
					Total Hours: 16

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 biochemistry majors can postpone BIOL 155/156 until their second or third year.

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, this schedule recommends a history elective in your first semester and a Fine Arts elective in your last semester, but you could switch them. Be sure to check the prerequisites for the course you want to take.

SOPHOMORE YEAR

Fall Semester (recommended hours)	Prerequisite Information	Hours	Grade	Year/ Semester	Course Sub / Suggested
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			Postponing physics beyond soph year may delay graduation
PHYS 203 Physics I Lab.	Pre or co PHYS101 or 201	1			
CMPS 130 Intro. Comp. Sci. I	Pre MATH 100 (C) or 101(C)	3			
					Total Hours: 14

Spring Semester (recommended hours)					
CHEM 222 Organic Chem. II	Pre CHEM221 (C)	3			
CHEM 226 Org. Chem. Lab.	Pre CHEM114 or 110 co CHEM222	2			
CHEM 300 Quant. Analysis	Pre CHEM106 & 114 or 110	3			
CHEM 302 Quant. Anal. Lab.	Pre or co CHEM300	2			
PHYS 202 General Physics II	Pre PHYS201	3			Postponing physics after soph year may delay graduation
PHYS 204 Physics II Lab.	Pre or co PHYS102 or 202	1			
SPCH 101 Fund. Publ. Speak.	eligible for ENGL101	3			
					Total Hours: 17

Suggested degree path for the
BACHELOR OF SCIENCE DEGREE IN CHEMISTRY-BIOCHEMISTRY (CHBC)
2019-20 Catalog

Name: _____ ID#: _____ Phone #: _____

<table>
<tr><th colspan="2"></th><th></th><th></th><th></th><th></th><th></th></tr>
<tr><th></th><th>Fall Semester (recommended hours)</th><th>Prerequisite Information</th><th>Hours</th><th>Grade</th><th>Year/ Semester</th><th>Course Sub / Suggested</th></tr>
<tr><td rowspan="15">JUNIOR YEAR</td><td>CHEM 303 Physical Chem. I</td><td>Pre MATH165, CHEM106 & 221, PHYS102 or 202</td><td>3</td><td></td><td></td><td></td></tr>
<tr><td>CHEM 305 Phys. Chem. I Lab</td><td>Co CHEM303</td><td>1</td><td></td><td></td><td></td></tr>
<tr><td>CHEM 319 Intro. Chemical Lit.</td><td>Pre CHEM222, 300</td><td>1</td><td></td><td></td><td></td></tr>
<tr><td>CHEM 435 Biochemistry I</td><td>Pre CHEM222</td><td>3</td><td></td><td></td><td></td></tr>
<tr><td>CHEM 437 Biochemistry Lab.</td><td>Pre CHEM 226 Co CHEM435</td><td>1</td><td></td><td></td><td></td></tr>
<tr><td>CHEM 451 Research Problems</td><td>Pre-permission</td><td>2</td><td></td><td></td><td></td></tr>
<tr><td>Humanities elective</td><td>See catalog</td><td>3</td><td></td><td></td><td>See catalog for options</td></tr>
<tr><td></td><td></td><td></td><td></td><td></td><td>Total Hours: 14</td></tr>
<tr><th colspan="6">Spring Semester (recommended hours)</th></tr>
<tr><td>CHEM 304 Physical Chem. II</td><td>Pre CHEM303</td><td>3</td><td></td><td></td><td></td></tr>
<tr><td>CHEM 306 Phys. Chem. II Lab.</td><td>Pre CHEM305 Co CHEM304</td><td>1</td><td></td><td></td><td></td></tr>
<tr><td>CHEM 405 Instr. Analysis</td><td>Pre CHEM302, 303</td><td>3</td><td></td><td></td><td></td></tr>
<tr><td>CHEM 407 Instr. Anal. Lab.</td><td>Pre or Co CHEM405</td><td>2</td><td></td><td></td><td></td></tr>
<tr><td>CHEM 436 Biochemistry II</td><td>Pre CHEM435</td><td>3</td><td></td><td></td><td>In-Depth CHEM</td></tr>
<tr><td>ENGL 368 Tech. & Prof. Writ. or ENGL 468</td><td>Pre ENGL102(C)</td><td>3</td><td></td><td></td><td></td></tr>
<tr><td></td><td></td><td></td><td></td><td></td><td>Total Hours: 15</td></tr>
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<tr><td rowspan="13">SENIOR YEAR</td><td>CHEM 412 Inorganic Chem.</td><td>Pre CHEM304</td><td>3</td><td></td><td></td><td></td></tr>
<tr><td>CHEM 413 Inorganic Prep.</td><td>Pre CHEM302,306 Co CHEM412</td><td>1</td><td></td><td></td><td></td></tr>
<tr><td>Social Science Elective 1</td><td></td><td>3</td><td></td><td></td><td>See catalog for options</td></tr>
<tr><td>BIOL 203 Gen Microbiology</td><td>Pre BIOL 155&156 (C), co BIOL 204</td><td>3</td><td></td><td></td><td>BIOL 203 and 204 must be taken in same semester</td></tr>
<tr><td>BIOL 204 Gen Microbiology Lab</td><td>Co BIOL 203 or 205</td><td>1</td><td></td><td></td><td>BIOL 203 and 204 must be taken in same semester</td></tr>
<tr><td>Biology/Chemistry Electives</td><td>See note (1) below</td><td>*a</td><td></td><td></td><td>Must total 10 hours over 2 semesters</td></tr>
<tr><td></td><td></td><td></td><td></td><td></td><td>Total Hours: 11+*a</td></tr>
<tr><th colspan="6">Spring Semester (recommended hours)</th></tr>
<tr><td>CHEM 450 Senior Seminar</td><td>Pre CHEM306, 319</td><td>1</td><td></td><td></td><td>Take during last semester</td></tr>
<tr><td>Social Science Elective 2</td><td>300/400 level course</td><td>3</td><td></td><td></td><td>See catalog for options.</td></tr>
<tr><td>Fine Arts Elective</td><td></td><td>3</td><td></td><td></td><td>See catalog for options</td></tr>
<tr><td>Humanities Elective</td><td>See catalog.</td><td>3</td><td></td><td></td><td>See catalog for options</td></tr>
<tr><td>Biology/Chemistry Electives</td><td>See note (1) below</td><td>*b</td><td></td><td></td><td>Must total 10 hours over 2 semesters</td></tr>
<tr><td></td><td></td><td></td><td></td><td></td><td>Total Hours: 10+*b</td></tr>
</table>

Total Hours for Degree __120__

Approved electives:

(1) Biology/Chemistry electives must total at least 10 hours. These hours must come from CHEM 451(2), BIOL 320 (4), BIOL 328 (3), BIOL 329 (2), BIOL 440 (3),or BIOL 441 (1) It is strongly recommended that CHEM 451 be one of the courses that you choose, especially if you plan to pursue an advanced degree.. One of these electives must be either CHEM 490 or CHEM 421. You may distribute these courses between the fall and spring semesters as you choose.

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 44 hours at this level. To fulfill the 45 hour requirement, you must take a 300 or 400 level course as the second social sciences option. If you do not do this, you must take another 3 hours at this level.   You must also take 1 additional credit at 300+. Discuss this with your advisor before registering for the first semester of your senior year to be sure that you are meeting this requirement.