

# College of Health & Sciences

## 2019-2020 Chemistry - Biochemistry Degree Plan

### FIRST YEAR - FRESHMAN

<u>Fall Semester</u>	<u>Spring Semester</u>
BIOL 1114 * General Biology	CHEM 1114 * General Chemistry I
ENG 1113 * Freshman Composition I	ENG 1213 * Freshman Composition II
HIST 24-3 * United States History Survey**	MATH 1713 Trigonometry
KIN 2122 * Wellness or Basic Nutrition HHFS 1513	PS 1113 * United States Government
MATH 1513 * College Algebra	BIOL 1314 * General Zoology <b>OR</b> BIOL 2344 General Microbiology
UNIV 1001 * Freshman Seminar	

**16 or 17 TOTAL HOURS**

**17 TOTAL HOURS**

### SECOND YEAR - SOPHOMORE

<u>Fall Semester</u>	<u>Spring Semester</u>
CHEM 1214 General Chemistry II	CHEM 3114 Organic Chemistry I
Math 2825 Calculus & Analytic Geometry	CHEM 3214 Quantitative Analysis I
PHYS 1114 General Physics I <b>OR</b> PHYS 2115 Engineering Physics I	---3 * Social Sciences**
BIOL 2184 Human Anatomy	PHYS 1214 General Physics II <b>OR</b> PHYS 2225 Engineering Physics II

**17-18 TOTAL HOURS**

**15-16 TOTAL HOURS**

### THIRD YEAR - JUNIOR (beginning in the fall of an even year) **OR** FOURTH YEAR - SENIOR (beginning in the fall of an even year)

<u>Fall Semester Even Year</u>	<u>Spring Semester Odd Year</u>
CHEM 4514 Physical Chemistry I <sup>^</sup>	CHEM 4413 Advanced Inorganic Chemistry <sup>^^^</sup>
CHEM 4213 Biochemistry [ <i>offered every fall</i> ]	CHEM 4114 Organic Chemistry II <b>OR</b>
CHEM 4221 Biochemistry Laboratory [ <i>offered every fall</i> ]	BIOL 3634 Human Physiology
BIOL 4313 Cell and Molecular Biology [ <i>offered every fall</i> ]	---3 * Humanities-Western Civilization**
---3 * Communication** (Speech or Language)	---3 * Humanities & Social Sciences**
	---3 Electives (3 hours)**

**14 TOTAL HOURS**

**16 TOTAL HOURS**

### THIRD YEAR - JUNIOR (beginning in the fall of an odd year) **OR** FOURTH YEAR - SENIOR (beginning in the fall of an odd year)

<u>Fall Semester Odd Year</u>	<u>Spring Semester Even</u>
CHEM 4114 Organic Chemistry II <b>OR</b>	CHEM 4523 Advanced Biochemistry <sup>^^^</sup>
BIOL 3634 Human Physiology	CHEM 3484 Instrumental Analysis <sup>^^</sup>
4 hours required-not taken previous spring semester	BIOL 4545 Advanced Molecular Biology [ <i>offered even springs</i> ]
---3 Electives (3 hours)**	---3 * Communication** (Computer Literacy)
---3 * Humanities-Cultural/Human Diversity	
---4 Electives (4 hours)**	

**14 TOTAL HOURS**

**15 TOTAL HOURS**

### TOTAL DEGREE PLAN HOURS 124

\*General Education Requirement      \*\*See current catalog "General Education Requirements" for selection      \*\*\*Minor Not Required/Electives (8-16 hours)  
<sup>^</sup>Offered fall semester even years; <sup>^^</sup>Offered spring semester even years; <sup>^^^</sup>Offered spring semester odd years; <sup>^^^</sup>Offered TBA (To Be Arranged)  
**Students need to plan semester schedules in advance in order to take required electives in the semester offered - junior or senior years**