

College of Health & Sciences

2022-2023 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 OR BIOL 2344 General Microbiology
UNIV 1001 * Freshman Seminar	
16 or 17 TOTAL HOURS	17 TOTAL HOURS

SECOND YEAR - SO HOMC E

<u>Fall Semester</u>	<u>Spring Semester</u>
CHEM 1214 General Chemistry II	CHEM 3114 Organic Chemistry I
Math 2825 Calculus & Analytic Geometry	---3 * Communication** (Speech or Language)
PHYS 1114 General Physics I OR PHYS 2115 Engineering Physics I	---3 * Social Sciences**
BIOL 2184 Human Anatomy	PHYS 1214 General Physics II OR PHYS 2225 Engineering Physics II
17-18 TOTAL HOURS	14-15 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 [^]	CHEM 4413 Advanced Inorganic Chemistry ^{^^^}
CHEM 4213 Biochemistry [<i>offered every fall</i>]	CHEM 4114 Organic Chemistry II OR
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**
---4 Electives (4 hours) ^{***}	---3 * Humanities & Social Sciences**
	---3 Electives (3 hours) ^{***}
15 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 OR	CHEM 4523 Advanced Biochemistry ^{^^^}
BIOL 3634 Human Physiology	CHEM 3484 Instrumental Analysis ^{^^}
4 hours required-not taken previous spring semester	---5 Elective
---3 Electives (3 hours) ^{***}	---3 * Communication** (Computer Literacy)
---3 * Humanities-Cultural/Human Diversity	
CHEM 3214 Quantitative Analysis I	
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)
[^]Offered fall semester even years; ^{^^}Offered spring semester even years; ^{^^^}Offered spring semester odd years; ^{^^^}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