COLLEGE OF ARTS & SCIENCES 2022-2023 BS CHEMISTRY DEGREE PLAN

		FIRST	YEAR -	FRESH	MAN (20-21)		
Fall Semester					Spring Semester			
Dept	Crse#	Course Name	Hrs	Dept	Crse#	Course Name	Hrs	
MAT	120	Precalculus ²	4	MAT	122	Analytics & Calculus I	5	
CHE	121	General Chemistry I	3	CHE	122	General Chemistry II	3	
CHE	121L	General Chemistry I Lab	1	CHE	122L	General Chemistry II Lab	1	
ENG	101	English Composition I ¹	3	ENG	102	English Composition II ¹	3	
BPH	100	Special Topics in Science	0.5	BIB	122	Acts of the Apostles ¹	2	
BIB	121	Life of Christ ¹	2					
		Other minor requirement ⁶	3					
			16.5				14	
		SECOND	YEAR -	SOPH	OMORE	(21-22)		
Fall Semester					Spring Semester			
Dept	Crse#	Course Name	Hrs	Dept	Crse#	Course Name	Hrs	
MAT	223	Analytics & Calculus II ⁵	4			Behaviorial Science Elective ¹	3	
PHS	211	Physics for Sci. & Engr. I ⁴	4	PHS	212	Physics for Sci. & Engr. II ²	4	
CHE	321	Organic Chemistry I	4	CHE	322	Organic Chemistry II	4	
BIO	205	Cell Biology ⁶	3			Other minor requirement ⁶	3	
BPH	200	Special Topics in Science	0.5	BIB		Bible Course	2	
BIB		Bible Course	2					
			17.5				16	
		THIRI	O YEAR	- JUN	IOR (2	2-23)		
Fall Semester					Spring Semester			
Dept	Crse#	Course Name	Hrs	Dept	Crse#	Course Name	Hrs	
HIS		History Elective ¹	3	CHE	221	Analytical Chemistry ⁵	4	
CHE	331	Biochemistry I ⁶	4	CHE	332	Biochemistry II ⁶	4	
BIO	333	Cell Biology & Molec. Gen. ⁶	4	СОМ	140	Speech Communication ¹	3	
		Other minor requirement ⁸	3	BPH	300	Special Topics in Science	1	
BIB	(4)346	Christ. Evid. / Found. of Faith ¹	3			Other minor requirement ⁸	3	
				BIB		Bible Course	3	
			17				14	
		FOURT	H YEAF	R - SEI	NIOR (2	23-24)		
Fall Semester				Spring Semester				
Dept	Crse#	Course Name	Hrs	Dept	Crse#	Course Name	Hrs	
CHE	421	Quantum Chemistry ^{5,7}	4	CHE	422	Kinetics and Thermodynamics ^{5,7}	4	
		Critical/Creative Elective ¹	3	CHE		UD Chem. Elective (or Bio) ³	4	
		UD Chem. Elective (or Bio) ³	4	BIO	444	Biological Conc. of Origins	3	
CHE			3	BPH	400	Science Seminar	1	
CHE		Other minor requirement ⁸						
CHE		Other minor requirement ⁸ Bible Course	2			Other minor requirement ⁸	3	
		· · · · · · · · · · · · · · · · · · ·		BIB	495	Other minor requirement ⁸ Values ¹	3	
		· · · · · · · · · · · · · · · · · · ·			495			

(Superscripts if needed) ¹ Liberal Arts Core classes

² Needed if math ACS score is between 24-26

 $^{^{\}rm 5}$ Required only for chemistry track

⁶ Required only for biochemistry track

ADDITIONAL ITEMS RELATED TO THE MAJOR

*Students may substitute MAT 224 Analytics and Calculus III or upper-division mathematics courses for up to four (4) of the additional required credit hours. Students may also use CHE 498 or HON 498 Independent Study (must be chemistry or biology related) for up to three (3) of the additional required credit hours. Students completing the pre-engineering program may count ENS 231 Engineering Mechanics I and ENS 232 Engineering Mechanics II toward meeting the seven (7) chemistry elective hours.

The following guidelines are important. Failure to follow these guidelines may delay graduation.

- 1. Plan schedules carefully. Plan to fulfill prerequisites for future courses.
- 2. Do not alter the sequence of courses without consulting with your academic adviser as not all classes are offered every semester.
- 3. Before the enrollment period, check to make sure holds will not prevent you from registration.
- 4. Register for classes early during the registration period to secure classes.

The Four-Year Degree Plan is a suggested plan of study. This plan does not replace the *Undergraduate Catalog*. The *Undergraduate Catalog* provides the official listing of program requirements.

³ Chemistry track need UD, biochem need either chem or bio (can be lower)

⁴ Can be replaced with General Physics for biochemistry track majors

⁷ Only need one for biochemistry track

⁸ Options if a student would like a minor