

COLLEGE OF ARTS & SCIENCES

2024-2025 BS CHEMISTRY DEGREE PLAN

FIRST YEAR - FRESHMAN (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 - SOPHOMORE (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
THIRD YEAR - JUNIOR (22-23)							
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	COM	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
FOURTH YEAR - SENIOR (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
CHE		UD Chem. Elective (or Bio) ³	4	BIO	444	Biological Conc. of Origins	3
		Other minor requirement ⁸	3	BPH	400	Science Seminar	1
BIB		Bible Course	2			Other minor requirement ⁸	3
				BIB	495	Values ¹	3
			16				15

(Superscripts if needed)

¹ Liberal Arts Core classes

² Needed if math ACS score is between 24-26

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

⁵ Required only for chemistry track

⁶ Required only for biochemistry track

⁷ Only need one for biochemistry track

⁸ Options if a student would like a minor

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.

2024-25 Undergraduate Liberal Arts Core Requirements

I. Biblical Values		III. Broadened Perspectives	
A. Bible		A. Behavioral Sciences	
BIB 121 & 122 & 346 OR 446	7	BIB/FAM 230 OR PSY 210 OR SOC 241 OR SWK 251	3
II. Basic Skills		B. Natural Sciences	
A. Written Communication		BIO 100 OR BIO 105 OR BIO 110 OR BIO 111 OR BIO 112 OR BIO 211 OR CHE 121 & CHE 121L OR PHS 111 OR PHS 112 OR PHS 201 OR PHS 211	
ENG 101 AND ENG 102	6	C. Arts and Humanities	
B. Oral Communication		HISTORY: HIS 111 OR HIS 112 OR HIS 221 OR HIS 222 OR HUM 399A OR POL 251	
COM 140	3	CRITICAL AND CREATIVE WORKS:	
C. Quantitative Reasoning		ART 110 OR ART 201 OR ART 234 OR ENG 215 OR ENG 225 OR ENG 235 OR ENG 299A/399A OR MUS 110 OR MUS 214 OR PHI 243 OR PHI 245 OR PHI 246 OR THE 160 OR THE 265 OR THE 299A/399A	
MAT 100 OR MAT 101 OR MAT 120 OR MAT 122 OR MAT 235	3	HUMANITIES CAPSTONE: BIB/HUM 495	
Complete course names and descriptions for the Liberal Arts Core Requirements are located in the Undergraduate Catalog.			
		Total	