

COLLEGE OF ARTS & SCIENCES

2023-2024 CHEMISTRY DEGREE PLAN - BIOCHEMISTRY EMPHASIS (TEACHING LICENSURE)

FIRST YEAR - FRESHMAN

Fall Semester				Spring Semester			
Dept.	Crse#	Course Name	Hrs.	Dept.	Crse#	Course Name	Hrs.
MAT	120	Precalculus ³	4	MAT	122	Analytics & Calculus I ³	4
CHE	121	General Chemistry I	3	CHE	122	General Chemistry II ³	3
CHE	121L	General Chemistry I Lab	1	CHE	122L	General Chemistry II Lab ³	1
ENG	101	English Composition I ¹	3	ENG	102	English Composition II ^{1,3}	3
BPH	100	Special Topics in Science	0.5	BIB	122	Acts of the Apostles ¹	2
BIB	121	Life of Christ ¹	2			Critical/Creative Elective ¹	3
EDU	130	Introduction to Education	3	EDU	250	Professional Reflective Seminar I ³	2
			14				13

SECOND YEAR - SOPHOMORE

Fall Semester				Spring Semester			
Dept.	Crse#	Course Name	Hrs.	Dept.	Crse#	Course Name	Hrs.
SPE	240	Special Education Foundations ³	3			Behaviorial Science Elective ¹	3
PHS	211	Physics for Sci. & Engr. I ³	4	COM	140	Speech Communication ¹	3
CHE	321	Organic Chemistry I ³	4	CHE	322	Organic Chemistry II ³	4
BIO	205	Cell Biology	3	EDU	327	Tests & Measurement ³	3
BIB		Bible Course	2	BIB		Bible Course	2
				PSY	306	Educational Psychology ³	3
				BPH	200	Special Topics in Science	0.5
			16				19

THIRD YEAR - JUNIOR

Fall Semester				Spring Semester			
Dept.	Crse#	Course Name	Hrs.	Dept.	Crse#	Course Name	Hrs.
RDG	321	Teaching Secondary Literacy ³	3	HIS		History Elective ¹	3
CHE	331	Biochemistry I ³	4	CHE	332	Biochemistry II ³	4
BIO	333	Cell Biology & Molec. Gen. ³	4	CHE		UD Chem. Elective (or Bio)	4
EDU	320	Technology in the Classroom ³	3	BIB		Bible Course	2
BIB	(4)346	Christ. Evid. / Found. of Faith ¹	3	BIO	444	Biological Conc. of Origins ³	3
BPH	300	Special Topics in Science	1	BPH	400	Science Seminar ³	1
			18				17

FOURTH YEAR - SENIOR

Fall Semester				Spring Semester			
Dept.	Crse#	Course Name	Hrs.	Dept.	Crse#	Course Name	Hrs.
CHE	421	Quantum Chemistry ³	4	EDU	447	Student Teaching, Secondary ³	12
CHE		UD Chem. Elective (or Bio)	4	EDU	450	Professional Reflective Seminar III ³	1
BIB	495	Values ^{1,3}	3				
EDU	350	Professional Reflective Seminar II ³	1				
EDU	428	Classroom Management ³	2				
EDU	431D	Tchng Methods & Literacy: Sec. Science	3				
			17				13

¹Liberal Arts Core Requirement

²Liberal Arts Core Requirements in *Undergraduate Catalog*

³Course has prerequisite. See corresponding *Undergraduate Catalog*

Total **126**

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 registering.
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.

2023-2024 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 SOC 251	3
II. Basic Skills		B. Natural Sciences	
A. Written Communication		BIO 100 OR BIO 105 OR BIO 110 OR	
ENG 101 AND ENG 102	6	BIO 111 OR BIO 112 OR BIO 211 OR	3
B. Oral Communication		CHE 121 & CHE 121L OR PHS 111 OR	
COM 140	3	PHS 112 OR PHS 201 OR PHS 211	
C. Quantitative Reasoning		C. Arts and Humanities	
MAT 100 OR MAT 101 OR MAT 120 OR MAT 122 OR MAT235	3	HISTORY: HIS 111 OR HIS 112 OR HIS 221 OR HIS 222 OR HUM 399A OR POL	3
Complete course names and descriptions for the Liberal Arts Core Requirements are located in the Undergraduate Catalog.		CRITICAL AND CREATIVE WORKS:	3
		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 PHI246 OR THE 160 OR THE 265 OR THE 299A/399A	
		HUMANITIES CAPSTONE: BIB/HUM 495	3
		Total	34