## **COLLEGE OF ARTS & SCIENCES**

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

		FIRST YE	AR -	FRES	HMAN									
	Fall Semester					Spring Semester								
Dept.	Crse#	Course Name	Hrs.	Dept.	Crse#	Course Name	Hrs.							
MAT	120	Precalculus <sup>3</sup>	4	MAT	122	Analytics & Calculus I <sup>3</sup>	4							
CHE		General Chemistry I	3	CHE	122		3							
CHE		General Chemistry I Lab	1	CHE		General Chemistry II Lab <sup>3</sup>	1							
ENG		English Composition I <sup>1</sup>	3	ENG		English Composition II <sup>1</sup>	3							
BPH		Special Topics in Science	0.5	BIB	122	Acts of the Apostles <sup>1</sup>	2							
BIB		Life of Christ <sup>1</sup>	2	EDU	250	Professional Reflective Seminar I <sup>3</sup>	2							
EDU	130	Introduction to Education	3											
			14				13							
		SECOND YE	AR -	SOPH	OMOR	RE								
		Fall Semester		Spring Semester										
Dept.	Crse#	Course Name	Hrs.	Dept.	Crse#	Course Name	Hrs.							
MAT	223	Analytics & Calculus II <sup>3</sup>	4			Behaviorial Science Elective <sup>1</sup>	3							
PHS	211	Physics for Sci. & Engr. I <sup>3</sup>	4	PHS	212	Physics for Sci. & Engr. II <sup>3</sup>	4							
CHE	321	Organic Chemistry I <sup>3</sup>	4	CHE	322	Organic Chemistry II <sup>3</sup>	4							
SPE	240	Special Education Foundations <sup>3</sup>	3	PSY	306	Educational Psychology <sup>3</sup>	3							
BPH	200	Special Topics in Science	0.5	BIB		Bible Course	2							
BIB		Bible Course	2											
			18				16							
		THIRD	YEAR	- JUN	IOR									
		Fall Semester				Spring Semester								
Dept.	Crse#	Course Name	Hrs.	Dept.	Crse#	Course Name	Hrs.							
HIS		History Elective	3	CHE	221	Analytical Chemistry <sup>3</sup>	4							
EDU	320	Technology in the Classroom <sup>3</sup>	3			Critical/Creative Elective <sup>1</sup>	3							
EDU	327	Tests and Measurement <sup>3</sup>	3	COM	140	Speech Communication <sup>1</sup>	3							
RDG	321	Teaching Secondary Literacy <sup>3</sup>	3	CHE		UD Chem. Elective (or Bio) <sup>3</sup>	4							
BIB	(4)346	Christ. Evid. / Found. of Faith <sup>1</sup>	3	BIO	444	Biological Conc. of Origins <sup>3</sup>	3							
BPH	300	Special Topics in Science	1	BIB		Bible Course	2							
į.														
			16				19							
		FOURTH	YEAR	R - SEI	NIOR									
		Fall Semester			Spring Semester									
Dept.	Crse#	Course Name	Hrs.	Dept.	Crse#	Course Name	Hrs.							
CHE	421	Quantum Chemistry <sup>3</sup>	4	EDU	447	Student Teaching, Secondary <sup>3</sup>	12							
EDU	428	Classroom Management <sup>3</sup>	2	EDU	450	Professional Reflective Seminar III <sup>3</sup>	1							
CHE		UD Chem. Elective (or Bio)	3											
-	431D	, ,	3											
EDU	495	Values <sup>1,3</sup>	3											
BIB		Professional Reflective Seminar II <sup>3</sup>	1											
	350	FI DIESSIONAL REHECCIVE SEMINAL II												
BIB	350 400	Science Seminar <sup>3</sup>	1	CHE	422	Chem Kinetics & Thermo <sup>3</sup> *******	* 4							
BIB EDU					422	Chem Kinetics & Thermo <sup>3</sup> *******	* 4 <b>17</b>							

<sup>&</sup>lt;sup>2</sup>Liberal Arts Core Requirements in *Undergraduate Catalog* 

<sup>&</sup>lt;sup>3</sup>Course has prerequisite. See corresponding *Undergraduate Catalog* 

## 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** 

III. Broadened Perspectives						
avio	aviora	al Scie	nces			
	M 230 C 251	OR PS	SY 210	OR S	OC 241	3
		cience	es.			
-	_	BIO 10 BIO 112	-			3
2 <b>O</b> F	2 <b>OR</b> 1	HE 121 PHS 20	1 <b>OR</b> I		_	
₹ <i>Y</i> : 1	<i>Y</i> : HI	_	OR HI	_	OR HI OR POI	_
AL A. 0 <b>OF</b> .5 <b>OF</b> 9A/3 R PHI	AL AND OR 25 OR 9A/39 PHI 25 160	ID CREA ART 20 ENG 22 99A OR 243 OR	ATIVE   01 OR / 25 OR MUS 1 PHI 2	WORK ART 2 ENG 2 110 OI 245 OF	S: 34 OR 235 OR R MUS R PHI24	3
PHI E 160 99A	PHI 2 160 99A	243 <b>(</b> <b>OR</b> 7	<b>) F</b> ΓΗ	<b>OR</b> PHΙ 2 ΓΗΕ 265	OR PHI 245 OF THE 265 OR TH	OR MUS 110 OR MUS OR PHI 245 OR PHI24 THE 265 OR THE STONE: BIB/HUM 495