## UNCP Department of Chemistry and Physics Requirements for a Bachelor of Science in Chemistry – Molecular Biotechnology Track (120 total credit hours)

Fre	shman Seminar (	1 credit hour)						
Gei	neral Education (4	14 credit hours)*						
CORE SCIENCE COURSES – 60 (58) total credit hours								
Chemistry - 38 credit hours								
	Course Number	Course Title	Credit Hours		Course Number	Course Title	Credit Hours	
	CHM 1100	General Chemistry I Lab	1		CHM 2500	Organic Chemistry I	3	
	CHM 1110	General Chemistry II Lab	1		CHM 2520	Organic Chemistry I Lab	1	
	CHM 1300	General Chemistry I	3		CHM 2510	Organic Chemistry II	3	
	CHM 1310	General Chemistry II	3		CHM 2530	Organic Chemistry II Lab	1	
	CHM 2260	Inorganic Chemistry	4		CHM 3980	Chemical Literature (WD)	2	
	CHM 2270	Analytical Chemistry	4		CHM 4100	Physical Chemistry (WE)	4	
* Add two (2) courses from the listed below *								
*	CHM 4110	Physical Chemistry II	4	*	CHM 4200	Forensic Chemistry	4	
*	CHM 4260	Advanced Inorganic Chemistry	4	*	CHM 4270	Instrumental Analysis (WD)	4	
	Mathematics – 14(12) credit hours				Physics*- 8 credit hours			
	Course Number	Course Title	Credit Hours		Course Number	Course Title	Credit Hours	
	MAT 1070 and MAT 1080 (or MAT 1090)	College Algebra and Plane Trigonometry OR Precalculus	6 <u>OR</u> 4		PHY 1500	College Physics I	3	
	MAT 2210	Calculus I	4		PHY 1510	College Physics II	3	
	MAT 2220	Calculus II	4		PHY 1560	College Physics I Lab	1	
					PHY 1570	College Physics II Lab	1	
					Physics* -	OR PHY 2000, 2010, 2060	, and 2070	
MOLECULAR BIOTECHNOLOGY TRACK (CMOL) - 27(29) credit hours								
Advanced Chemistry – 12 credit hours				Other Courses – 15 (17) credit hours				
	Course Number	Course Title	Credit Hours		Course Number	Course Title	Credit Hours	
	CHM 3110	Biochemistry I	3		BIO 1000	Principles of Biology	3	
	CHM 3120	Biochemistry I Lab	1		BIO 3150	Microbiology	4	
	CHM 3210	Biochemistry II	3		BIO 3710	Cell Biology	4	
	CHM 3240	DNA Analysis Lab	1		BTEC 3220	Biotechnology I	4	
	CHM 3990	Research in Chemistry	1					
	BTEC 3510	Bioprocessing	3					

- Twelve hours of General Education courses are listed separately above as specific core requirements.
- Writing in Discipline (WD) Writing Enriched (WE)
- TWO ICC DESIGNATED COURSES ARE REQUIRED (one course for transfer students with more than 60 hours).
   NOTE: ICC courses applies only for the students beginning Fall 2022.