

UNCP Department of Chemistry and Physics
Requirements for a Bachelor of Science in Chemistry – Analytical Chemistry
(120 total credit hours)

Freshman Seminar (1 credit hour hours)***				General Education (44 credit hours)			
CORE SCIENCE COURSES – 55(53) total credit hours							
Chemistry - 30 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
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 <u>OR</u> 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
Biology – 3 credit hours					PHY 1570	College Physics II Lab	1
	Course Number	Course Title	Credit Hours	Physics* - <u>OR</u> PHY 2000, 2010, 2060, and 2070			
	BIO 1000	Principles of Biology	3				
ANALYTICAL TRACK (CANL) – 32 (34) credit hours							
Analytical Chemistry – 30 credit hours				Other Requirements – 2 (4) credit hours			
	Course Number	Course Title	Credit Hours	Electives (any area) 2 (4)			
	BIOL 1000	Laboratory Investigations and Experiences in General Biology	1	Elective Course Number	Course Title	Credit Hours	
	CHM 4270	Instrumental Analysis (WD)**	4				
	CHM 3110	Biochemistry	3				
	CHM 3120	Experim Methods in BioChem	1				
	CHM 3990*/ CHM 4800*/ and/or 4990*	Research in Chemistry/ Internship in Chemistry/ Independent Study in Chemistry	Total: 6				
	PHY 2180	Optics	3				
	PHY 2210	Hardware & Software Concepts	3				
	PHY 3560	Modern Electronics	3				
	PHY 4200*	Advanced Laboratory I	3				
	PHY 4210*	Advanced Laboratory II	3				

- Twelve hours of General Education courses are listed separately above as specific core requirements.
- Writing in Discipline (WD) Writing Enriched (WE)
- six hours-must include department chair and academic advisor-approved analytical chemistry focus
- 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.