

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)				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* and/or CHM 4800* and/or CHM 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.

**WD: Writing in Discipline WE: Writing Enriched

*six hours-must include department chair and academic advisor-approved analytical chemistry focus