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

hman Seminar eral Education (	(44 credit hours)				
	CORE MATH & SCIE	NCE CO	URSES – 62 to	tal credit hours	
	Phy	sics - 33 cı	redit hours		
Course Number	Course Title	Credit Hours	Course Number	Course Title	Credi Hours
PHY 2000	University Physics I	3	PHY 3000	Classical Mechanics	3
PHY 2010	University Physics II	3	PHY 3200	Electricity & Magnetism I	3
PHY 2060	University Physics Lab I	1	PHY 3260	Heat & Temperature	3
PHY 2070	University Physics Lab II	1	PHY 3560	Modern Electronics	3
PHY 2180	Optics	3	PHY 4200	Advanced Laboratory I - WD	3
PHY 2560	Modern Physics - WE	4	PHY 4990	Independent Study	3
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Mathematics – 18 credit hours			Chemistry - 8 credit hours		
Course Number	Course Title	Credit Hours	Course Number	Course Title	Cred Hour
MAT 2210	Calculus I	4	CHM 1100	General Chemistry Lab I	1
MAT 2220	Calculus II	4	CHM 1110	General Chemistry Lab II	1
MAT 3150	Linear Algebra I	3	CHM 1300	General Chemistry I	3
MAT 3310	Calculus III	4	CHM 1310	General Chemistry II	3
MAT 3320	Differential Equations	3			
Compu	ter Science – 3 credit hours		*An equivalent programming course can be substitute		
CSC 2050* Into. to Programming 3			for CSC 2050		
		ELECT	IVES		
ELECTIV	ES** - 18 (32) credit ho				
Electives can be from any area. However, the following is a <i>strongly recommended</i> list of subject related courses.					
PHS 1560	Astronomy	3			
PHS 1570	Astronomy Lab	1			
PHY 3210	Electricity & Magnetism II	3			
PHY 3360	Mathematical Physics	3			
	Quantum Mechanics nber of elective credit hours is ibution of General Education c				

## WE/WD: 9 CREDIT HOURS ARE REQUIRED AS PART OF THIS PROGRAM.