

**UNCP Department of Chemistry and Physics  
Requirements for '3 + 2' Program Mechanical Engineering  
(124 total credit hours)**

<b>Freshman Seminar (1 credit hour)</b>							
<b>General Education (44 credit hours)</b>							
<b>PROPOSED 3-PLUS-2 UNCP Physics Curriculum Plan</b>							
<b>Fall Semester YEAR 1</b>				<b>Spring Semester YEAR 1</b>			
	<b>Course Number</b>	<b>Course Title</b>	<b>Credit Hours</b>		<b>Course Number</b>	<b>Course Title</b>	<b>Credit Hours</b>
	ENG 1050	English Composition I	3		ENG 1060	English Composition II	3
	CHM 1300	General Chemistry	3		CHM 1310	General Chemistry II	3
	CHM 1100	General Chemistry Lab I	1		CHM 1110	General Chemistry Lab II	1
	MAT 2210	Calculus I	4		MAT 2220	Calculus II	4
	PHY 2000	University Physics I	3		PHY 2010	University Physics II	3
	PHY 2060	University Physics Lab I	1		PHY 2070	University Physics Lab II	1
	FRS 1000	Freshman Seminar	1			Gen Ed PED	1
			<b>16</b>				<b>16</b>
<b>Fall Semester YEAR 2</b>							
<b>Fall Semester YEAR 2</b>				<b>Spring Semester YEAR 2</b>			
	<b>Course Number</b>	<b>Course Title</b>	<b>Credit Hours</b>		<b>Course Number</b>	<b>Course Title</b>	<b>Credit Hours</b>
		General Education	3			General Education	3
	MAT 3310	Calculus III	4		MAT 3320	Differential Equations	3
	PED 1010	Wellness and Fitness	1		PHY 3360	Mathematical Physics	3
	CSC 2050	Intro to Programming-C/C++	3		PHY 2180	Optics	3
	PHY 2560	Modern Physics	4		PHY 2210	Hardware/Software Con	3
	PHY 3000	Classical Mechanics	3		PHY 3560	Modern Electronics	3
			<b>18</b>				<b>18</b>
<b>Fall Semester YEAR 3</b>							
<b>Fall Semester YEAR 3</b>				<b>Spring Semester YEAR 3</b>			
	<b>Course Number</b>	<b>Course Title</b>	<b>Credit Hours</b>		<b>Course Number</b>	<b>Course Title</b>	<b>Credit Hours</b>
		General Education	3			General Education	3
		General Education	3		MAT 3150	Linear Algebra I	3
	PHY 3880	Advanced Comp Physics	3		PHY 4000	Quantum Mechanics	3
	PHY 3260	Heat and Temperature	3		PHY 4990	Independent Study	3
	PHY 3200	Electricity and Magnetism I	3		PHY 3210	Electricity and Magnetism II	3
	PHY 4200	Advanced Lab I	3		PHY 4210	Advanced Lab II	3
			<b>18</b>				<b>18</b>