

Physics BA Sample Curriculum with Sec. Ed. Cert. (4-year plan)

<i>Course#</i>	<i>Description</i>	<i>Credit Hrs</i>		<i>Course#</i>	<i>Description</i>	<i>Credit Hrs</i>
			1st YEAR			
FALL SEMESTER				SPRING SEMESTER		
PHYS 200	Seminar	1		PHYS 211/211L	Physics I	4
<i>Math 170</i>	<i>Calculus I</i>	4		<i>Math 175</i>	<i>Calculus II</i>	4
<i>Chem 111</i>	<i>Princ. of Chem. I</i>	4		<i>Chem 112</i>	<i>Princ. of Chem. II</i>	5
ISem 101	Integrative Sem.	3			General Core	3
Engl 102	Comm. Req. I	3		EDCI 201	Contexts of Education	2
	Total =	15			Total =	18
			2nd YEAR			
FALL SEMESTER				SPRING SEMESTER		
PHYS 212/212L	Physics II	4		PHYS 213/213L	Physics III	4
<i>Math 275</i>	<i>Calculus III</i>	3		PHYS 305	Modern Physics	3
<i>Math 330</i>	<i>Linear Algebra (elective †)</i>	3		<i>Math 310</i>	<i>ODE (elective †)</i>	3
	General Core	3			Comm. Req. II (\$)	3
EDCI 301	Lrng, Dvlpmnt, & Assessment	3		EDCI 302	Teaching Culturally Diverse Learners	4
	Total =	16			Total =	17
			3rd YEAR			
FALL SEMESTER				SPRING SEMESTER		
PHYS 321	Classical Mechanics I	3			PHYS Elective*	2
PHYS 341	Electromagnetism I	3		PHYS 351	Q.M. I	3
	<i>additional Hum.</i>	3			PHYS Elective*	3
ISem 301	Integrative Sem.	1			<i>Addition Soc. Sci.</i>	3
	General Core	3			General Core	3
EDSP 300	Educating for Exceptionalities	2				
	Total =	15			Total =	14
			4th YEAR			
FALL SEMESTER				SPRING SEMESTER		
PHYS 333 or Chem 495	Stat. Therm.	3		EDCI 401	Internship Seminar	1
	PHYS Elective*	3		EDCI 485	Secondary Internship	15
EDCI 433	Sec. Sci. Methods	3		PHYS 407 or 492	Senior Experience	1
EDCI 443	Sec. Sci. Methods Prac.	1				
EDCI 463	Literacy Methods For Content Learning	3				
	Total =	13			Total =	17

BA with sec. ed. cert. credit break-down and notes:

	Credit hours	Credit Hours	Required Physics Classes for BA
Physics Required (Specific)		28	<i>Required non-Physics Classes for BA</i>
Physics Required (Elective)		8	General Core Classes
Total Physics Required	36		<i>Secondary Education Certification Classes</i>
Math Required	17		
Chemistry Required	9		
Hum and S.S. Required	6		
General Core, Comm.	24		
Ed. Cert. classes	34		
	TOTAL =	126	
The BA requires 1 humanities and social science courses beyond the BS.			
Compared to the BS, the BA does not require 3 of the 5 physics electives, PHYS 371 or PHYS 342.			
* A minimum of 6 credits of Physics electives are required with course number 300 or higher.			
† MATH 330 (Lin. Alg., Fall) and MATH 310 (O.D.E., Spring) are highly recommended for satisfying the 6 cr. math req.			
(\$) ENG 317 (Technical Writing) is highly recommended to fulfill the Comm. II requirement.			
University Requirements: 120 cr for Baccalaureate degree with at least 36 cr. numbered 300 and above			

Notes:

Many of the teacher certification classes and first-year chemistry, physics and math courses can be taken over the summer. This can increase the flexibility of the program of study.