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

Course#	*Description*	*Credit Hrs*		*Course#*	*Description*	*Credit Hrs*
			1st YEAR			
FALL SEMESTER				SPRING SEMESTER		
PHYS 200	**Seminar**	1		**PHYS 211/211L**	**Physics I**	4
Math 170	Calculus I	4		*Math 175*	*Calculus II*	4
Chem 111	*Princ. of Chem. I*	4		*Chem 112*	*Princ. of Chem. II*	5
	General Core	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
Math 275	*Calculus III*	3		**PHYS 305**	**Modern Physics**	3
Math 330	*Linear Algebra (elective †)*	3		*Math 310*	*ODE (elective †)*	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
	additional Hum.	3			**PHYS Elective***	3
	General Core	3			*Addition Soc. Sci.*	3
	General Core	3			General Core	3
EDSP 300	***Educating for Exceptionalities***	2				
	Total =	17			Total =	14
			4th YEAR			
FALL SEMESTER				SPRING SEMESTER		
PHYS 433 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				
EDCI 443	***Sec. Sci. Methods Prac.***	1				
EDCI 463	***Literacy Methods For Content Learning***	3				
	Total =	13			Total =	16

last update: 9-2012

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

		Credit hours	Credit Hours	**Required Physics Classes for BA**
Physics Required (Specific)			28	*Required non-Physics Classes for BA*
Physics Required (Elective)			8	General Core Classes
Total Physics Required		36		***Secondary Education Certification Classes***
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.