Physics BS: Sample Curriculum

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
Eng 102	Comm. Req. I	3				
	Total =	15			Total =	16
			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	*Lin. Algebra (elective †)*	3		*Math 310*	*ODE (elective †)*	3
	General Core	3			General Core	3
	General Core	3		Eng. 317	Comm. Req. II ($)	3
	Total =	16			Total =	16
			3rd YEAR			
FALL SEMESTER				SPRING SEMESTER		
PHYS 321	**Classical Mechanics I**	3		**PHYS 351**	**Q.M. I**	3
PHYS 341	**Electromagnetism I**	3		**PHYS 342**	**Electromagnetism II**	3
PHYS 371	**Math Methods**	3		**PHYS 301**	**Junior Lab** (lab elective #)	2
	Elective	3			**PHYS ELECTIVE**	3
	General Core	3			Elective	3
	Total =	15			Total =	14
			4th YEAR			
FALL SEMESTER				SPRING SEMESTER		
PHYS 433 or Chem 495	**Stat. Thermo.**	3		**PHYS 400+**	**PHYS ELECTIVE**	3
PHYS 411 (or Chem 436)	(lab elective #)	3 (2)		**PHYS 400+**	**PHYS ELECTIVE**	3
PHYS 400+	**PHYS ELECTIVE**	3			Elective	3 (4)
	Elective	3			Elective	4
	Elective	3				
	Total =	15 (14)			Total =	13 (14)

BS Credit Break-down and notes:

Physics Required (Specific)		34		* A minimum of fifteen credits of Physics electives are required with at least 4 credits in lab courses.
Physics Required (Elective)		17 (16)		* This curriculum applies for the BS Degree.
Total Physics Required	51 (50)			* The BA degree requires 1 additional humanities class and competency in a foreign language and only 9 credit hours of physics electives.
Math Required	17			* General requirements consist of Communications, Natural and Applied Sciences, Mathematics and Core required coursework.
Chemistry Required	9			($) ENG 317 (Technical Writing) is highly recommended to fulfill the Comm. II requirement.
General Core and Comm.	24			(#) PHYS 301 (Junior Lab, 3rd yr.) and PHYS 411 or Chem 436 are highly recommended for satisfying the 4 cr. lab requirement.
General Electives	19 (20)			(†) MATH 330 (Lin. Alg., Fall term) and MATH 310 (O.D.E., Spring term) are highly recommended for satisfying the 6 cr. math requirement.
Total	**120**			

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