Requirements for the Major in Mathematics-Physics - B.A.
(Pending APC Approval-2007)

Physics Courses

Course	Name	Cr Hrs	Pre Req	Pre or Co Req	Available	Other
PHYS-11700	Principles of Physics I:Mechanics	4		MATH-11100	F, Y	2a
PHYS-11800	Principles of Physics II: Electricity and Magnetism	3	PHYS-11700	MATH-11200	S, Y	2a
PHYS-12000	Freshman Laboratory	2	PHYS-11800		S, Y	2a
PHYS-21700	Principles of Physics III: Heat and Optics	4	PHYS-11800 & MATH-11200		F, Y	
PHYS-21800	Principles of Physics IV:Modern Physics	4	PHYS-21700		S, Y	
PHYS-22500	AC & DC Circuits	3	PHYS-11800 & PHYS-12000		F, Y	
PHYS-30100	Mathematical Methods of Physics	3	MATH-21100 & PHYS-21800 & COMP-17100		F, Y	
PHYS-30500	Electromagnetism	3	PHYS-21700 & COMP-17100		F, Y	
PHYS-31100	Analytical Mechanics	3	PHYS-11800 & PHYS-30100		S, Y	

Total 29

Mathematics Courses

Course	Name	Cr Hrs	Pre Req	Pre or Co Req	Available	Other
MATH-11100	Calculus I	4	Math placement 1		F-S, Y	2b
MATH-11200	Calculus II	4	MATH-11100		F-S, Y	2b
MATH-21100	Calculus III	4	MATH-11100 & MATH-11200		F-S, Y	2b
MATH-21200	Calculus IV	3	MATH-21100		S, Y	
MATH-21400 ***or***	Differential Equations	3	MATH-11200		S, Y	
MATH-21600	Introduction to Mathematical Statistics		MATH-11200		F, Y	
MATH-23100	Linear Algebra	3	MATH-11200		F, Y	
MATH-27000	Mathematical Reasoning with Discrete Math	3	MATH-18500 ***or*** MATH-23100	MATH-18500	S, Y	
MATH-29100	Sophomore Seminar	1	MATH-11200 & MATH-23100 ***or*** 27000	MATH-27000	S, Y	
Take either:						
MATH-30300 ***or***	Abstract Algebra	4	MATH-26100		F, Y	
MATH-30500	Introduction to Analysis		MATH-21100 & MATH-26100		S, Y	
*	Math Electives (See below)	3 - 4				

Total 32-33

*** Select one Math or Physics course at Level 3 or above (except for MATH-39100, 39500, 49100, 49500) or any approved course.**

Total 3-4

Electives 58-59

Total B.A. Mathematics-Physics	**120**