

## Montclair State University Department of Physics and Astronomy Physics Minor

I. Minor Requirements	21-22 sh	II. Collateral Courses	(8-12 sh)
A. Physics Core		(These credit hours are not counte MATH 122 and 221 or AMAT 120 a	
Complete the following 3 courses:		prerequisites. MATH 222 is optional	-
PHYS 191 University Physics I	4	for some physics courses.	, out is a prerequisite
PHYS 192 University Physics II	4	for some physics courses.	
PHYS 230 Intermediate Physics Laborat		MATH 122 Calculus I or AMAT 120	0 Applied Calc A 4
,	- 5	MATH 221 Calculus II or AMAT 22	
Complete one of these two courses:		MATH 221 Calculus II of AMAT 22	20 Applied Calc. B 4
PHYS 210 Intermediate Mechanics	3	MATH 222 Calculus III	4
PHYS 220 Oscillations, Waves, & Optic			
Complete one of these three courses:			
PHYS 340 Electricity and Magnetism	3		
PHYS 320 Statistical and Thermal Physi			
PHYS 360 Modern Physics	3		
B. Physics Electives	(3-4 sh)		
Choose one course below that was not taken	` ,		
PHYS 180 Astronomy for Everyone	4		
PHYS 210 Intermediate Mechanics	3		
PHYS 220 Oscillations, Waves, & Optic			
PHYS 245 Fundamentals of Electronics	4		
PHYS 280 Astronomy for Physicists	4		
PHYS 310 Advanced Mechanics	3		
PHYS 320 Statistical and Thermal Physi			
PHYS 330 Advanced Physics Laborator			
PHYS 340 Electricity and Magnetism	3		
PHYS 341 Electronics and Digital Circu			
PHYS 350 Modern Optics	4		
PHYS 360 Modern Physics	3		
PHYS 368 Fluid Mechanics	3		
PHYS 377 Mathematical Physics	3		
PHYS 380 Observational Astronomy	4		
PHYS 399 Special Topics in Physics	1-4		
PHYS 325 Computational Physics	3		
PHYS 451 Radiation and Medical Physic	cs 3		
PHYS 461 Special & General Relativity			
PHYS 462 Nuclear Physics	4		
PHYS 464 Quantum Mechanics	3		
PHYS 470 Solid State Physics	3		
PHYS 480 Astrophysics	3		
PHYS 495 Research/Indep. Study in Phy	2		