



Pre Engineering/ Physics Major

Total Credits: 53

REQUIRED PHYSICS COURSES (35 CREDITS)		Term	Credits	Resid
Subj/Course # Title				(O or R)
PHY 1051	General Physics 1, Fall		4	
PHY 1052	General Physics 2, Spring		4	
PHY 2051	General Physics 3, Fall		4	
PHY 2052	General Physics 4, Spring		4	
*PHY 2550	Physics Computer Programming		3	
PHY 4935	Physics Colloquium		1	
ENGR 5321	Electromagnetic Theory		3	
ENGR 5221	Classical Mechanics		3	
ENGR 5810	Advanced Physics Lab		3	
ENGR 5510	Statistical Thermodynamics		3	
ENGR 5621	Intro to Quantum Mechanics		3	

PHYSICS ELECTIVES (6 CREDITS)				
PHY ELECT #1			3	
PHY ELECT #2			3	

REQUIRED MATH COURSES (12 CREDITS)				
MAT 1412	Calculus 1		4	
MAT 1413	Calculus 2		4	
MAT 1510	Multivariable Calculus		4	

Notes:

1. Up to 12 credits can be used towards an MA in Physics at YU.
 2. 60% of this major must be taken at Yeshiva College
 3. Major/Minor courses require a grade of a "C-" or better to fulfill its requirement
- * PHY 2550 can be replaced, with permission by the department, by ENGR 5301, PHY 5301, or equivalent
- Updated July 2024