



Pre- Engineering/ Physics Major Total Credits: 55

REQUIRED PHYSIC COURSES, 37 CREDITS:

PHY 1051R, General Physics 1 Lecture, <i>Fall</i> () _____	4 Credits
PHY 1051L, General Physics 1 Lab, <i>Fall</i> () _____	1 Credit
PHY 1052R, General Physics 2 Lecture, <i>Spring</i> () _____	4 Credits
PHY 1052L, General Physics 2 Lab, <i>Spring</i> () _____	1 Credit
PHY 2051R, General Physics 3 Lecture, <i>Fall</i> () _____	4 Credits
PHY 2052R, General Physics 4 Lecture, <i>Spring</i> () _____	4 Credits
*PHY 2550, Physics Computer Programming () _____	3 Credits
PHY 5321, Electromagnetic Theory () _____	3 Credits
PHY 5221, Classical Mechanics () _____	3 Credits
PHY 5810, Advanced Physics Lab () _____	3 Credits
PHY 5510, Statistical Thermodynamics () _____	3 Credits
PHY 5621, Quantum Mechanics () _____	3 Credits
PHY 4935, Physics Colloquium () _____	1 Credit

PHYSICS ELECTIVES, 6 CREDITS:

Examples include computational Engineering, mathematical methods for Engineers, Advanced Mechanics, Advanced Electromagnetism

PHY ELEC () _____	3 Credits
PHY ELEC () _____	3 Credits

REQUIRED MATH COURSES, 12 CREDITS:

MAT 1412, Calculus 1 () _____	4 Credits
MAT 1413, Calculus 2 () _____	4 Credits
MAT 1510, Multivariable Calculus () _____	4 Credits

*PHY 2550 can be replaced, with permission of the department, by ENGR 5301 Computational Methods in Engineering, PHY 5301 Computational Methods in Physics, or equivalent

*Up to 12 credits can be used towards an MA in physics at YU. Students interested in this option need to make an appointment with an academic advisor as soon as possible and make sure to register for classes with the 5000 code.

NOTE: Courses within any given major or minor require a grade of a "C-" or better to fulfill its requirement