



## **Pre- Engineering/ Physics Major      Total Credits: 52**

### **REQUIRED PHYSIC COURSES, 34 CREDITS:**

PHY 1051R, General Physics 1 Lecture, <i>Fall</i> ( ) _____	4 Credits
PHY 1052R, General Physics 2 Lecture, <i>Spring</i> ( ) _____	4 Credits
PHY 1061L, General Physics 2 Lab, <i>Spring</i> ( ) _____	1 Credit
PHY 2051R, General Physics 3 Lecture, <i>Fall</i> ( ) _____	4 Credits
PHY 2061L, General Physics 3 Lab, <i>Fall</i> ( ) _____	1 Credit
PHY 2052R, General Physics 4 Lecture, <i>Spring</i> ( ) _____	4 Credits
EGR 1321, Electromagnetism ( ) _____	3 Credits
EGR 1221, Engineering Mechanics ( ) _____	3 Credits
EGR 1810, Advanced Engineering Laboratory ( ) _____	3 Credits
EGR 1510, Applied Statistical Thermodynamics ( ) _____	3 Credits
EGR 1621, Quantum Engineering ( ) _____	3 Credits
EGR 4935, Applied Physics Colloquium ( ) _____	1 Credit

### **PHYSICS ELECTIVES, 6 CREDITS:**

*Examples include computational Engineering, Mathematical Methods for Engineers, Advanced Mechanics, Advanced Electromagnetism, or Engineering Foundations*

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

\*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