

Sample Schedule Engineering/Physics Major

The following is a sample four year program for the Engineering/Physics major that includes both major requirements and Westmont's General Education requirements. These requirements will vary from student to student depending on requirements a student may have met upon arrival at Westmont (e.g. Calculus, English Composition, Foreign Language). Some courses will fulfill more than one requirement. In addition as with all majors at Westmont there is the opportunity to do an off camps program (e.g. Europe Semester, Urban Semester, etc.) which can be done with proper planning ahead of time. Also some courses may not be taught in a particular year due to alternate year offerings, sabbaticals, etc. The GE Common Context Courses (RS, etc.) are listed by name but need not be taken in this order.

First Year (36 units)

Fall (18)

PHY 21: General Physics (4)
PHY 22: Gen. Phys. Lab (1)
MA 9: Calculus (4)
RS 20: Christian Doctrine (4)
ENG 2: English Composition (4)
PEA 32: Fitness for Life (1)

Spring (18)

PHY 23: General Physics (4)
PHY 24: Gen. Phys. Lab (1)
MA 10: Calculus (4)
RS (10): New Testament (4)
GE (4)
PEA elective (1)

Second Year (35 units)

Fall (17)

PHY 25: Modern Physics (4)
MA 19: Multivariable Calculus (4)
CHM 5: General Chemistry (4)
RS 1: Old Testament (4)
PEA elective (1)

Spring (18)

PHY 26: Modern Physics Lab. (1)
PHY 40: Differential Equations (4)
CHM 6: General Chemistry (4)
PHI 6: Philosophy (4)
HIS 10: Perspectives World Hist. (4)
PEA Elective (1)

Third Year (32 units)

Fall (16)

PHY 115: Mathematical Physics (4)
PHY 150: Electricity and Magnetism (4)
General Education (8)

Spring (16)

PHY 130 Mechanics (4)
PHY 151: Optics (4)
General Education (8)

Fourth Year (31 units)

Fall (16)

CS 10: Intro to Computer Science (4)
General Education (12)

Spring (15)

PHY 142: Circuits & Electronics (4)
PHY 143: Electronics Laboratory (1)
PHY 195: Senior Seminar (1)
PHY 170/198 Adv. Lab/Research (1)
General Education (4)