

Sample Schedule Physics Major

The following is a sample four year program for the 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). Also some courses will be more than one requirement. In addition as will 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 are taught alternate years (e.g. Quantum Mechanics—Ph 121, 122 which may be taken either junior or senior year depending on availability).

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 130/131 Mechanics (4)
PHY 151: Optics (4)
General Education (8)

Fourth Year (30 units)

Fall (16)

PHY 121: Quantum Mechanics (4)
PHY 160: Thermodynamics (4)
General Education (8)

Spring (14)

PHY 122: Quantum Mechanics (4)
PHY 195: Senior Seminar (1)
PHY 170/198 Adv. Lab/Research (1)
General Education (8)