The Physics Major

Required Introductory Physics Sequence (17 credits)
PHYS 165 (3): Introduction to Programming for the Physical Sciences *
PHYS 171 (3): Introductory Physics: Mechanics and Thermal Physics
PHYS 174 (1): Physics Lab Introduction
PHYS 272 (3): Fields
PHYS 275 (2): Experimental Physics I Mechanics, Heat, and Fields
PHYS 273 (3): Waves
PHYS 276 (2): Experimental Physics II: Electricity and Magnetism

Supporting Mathematics/Mathematical Methods Courses (15 credits)
MATH 140 (4): Calculus I
MATH 141 (4): Calculus II
MATH 241 (4): Calculus III
PHYS 274 (3): Mathematical Methods for Physics I

Physics Major - Upper Level Requirements (37 credits)
PHYS 371 (3): Modern Physics
PHYS 373 (3): Mathematical Methods for Physics II
PHYS 375 (3): Experimental Physics I II: Electromagnetic Waves, Optics and Modern Physics
PHYS 401 (4): Quantum Physics I
PHYS 402 (4): Quantum Physics II
PHYS 404 (3): Introduction to Statistical Thermodynamics
PHYS 405 (3): Advanced Experiments lab
    or PHYS 407 (3): Undergraduate Experimental Research
PHYS 410 (4): Classical Mechanics
PHYS 411 (4): Intermediate Electricity and Magnetism
PHYS 4xx (3): Advanced Physics Elective I
PHYS 4xy (3): Advanced Physics Elective II

*For students with experience with computer programming this can be satisfied by a new advanced level course PHYS 474 Computational Physics that will also count as one of the Advanced Physics Electives.