



Wells College

Name: _____

Advisor: _____

Graduation Year: _____

Physics Major (B.A.)

In this program, students study the fundamental laws of nature through investigation and mathematical formulation and examine the roles of computers in the sciences. They also learn how physics interconnects with other sciences through an interdisciplinary, liberal arts program that enables them to bring a broad perspective to any problem.

The number of courses for the major is 14 (46-49 semester hours). At least four of these courses (12 semester hours) must be at the 300-level or above. Internships may not be used to fulfill major requirements.

REQUIRED COURSES:

All of the following (31 sem. hrs.)

MATH 111	Calculus I: Introduction to Calculus (4 sem. hrs.)
MATH 112	Calculus II: Introduction to Calculus (4 sem. hrs.)
MATH 211	Calculus III: Multivariable Calculus (3 sem. hrs.)
MATH 213	Ordinary Differential Equations and Applications (3 sem. hrs.)
MPS 402	Senior Seminar in Mathematical and Physical Sciences (3 sem. hrs.)
PHYS 111L	Fundamentals of Physics I (4 sem. hrs.)
PHYS 212L	Fundamentals of Physics II (4 sem. hrs.)
PHYS 302	Modern Physics (3 sem. hrs.)
PHYS 303	Theoretical Mechanics (3 sem. hrs.)

One of the following (3-4 sem. hrs.)

CHEM 107L	General Chemistry (4 sem. hrs.)
CS 131	Programming I: Procedural Methods (3 sem. hrs.)

Three of the following (9-10 sem. hrs.)

CHEM 305/PHYS 305	Physical Chemistry (3 sem. hrs.)
CS 132	Programming II: Advanced Design (3 sem. hrs.)
PHYS 221L	Principles of Electronics (4 sem. hrs.)
PHYS 307	Special Relativity and Intermediate Quantum Mechanics (3 sem. hrs.)
PHYS 340	Experimental Physics (3 sem. hrs.)

One of the following (3-4 sem. hrs.)

Any course in computer science, mathematics or physics about the 100-level.