

PHYSICS MAJOR 2012-2013

This checklist is for reference only. Please see the College Catalog and check with your major adviser or department chair to assure compliance with graduation requirements.

Note: Pre-requisites in parentheses

I. Required Courses:

Sem. Taken	Cr. Earned	
		a. Physics Core Courses (32 credit-hours)
		PHYS 151 Fundamentals of Physics I (recommended) or PHYS141:General Physics I
		PHYS 152 Fundamentals of Physics II (recommended) or PHYS142 General Physics II
		PHYS 251 Fundamentals of Physics III (PHYS 152 or 142)
		PHYS 312 Advanced Physics Laboratory (PHYS 251)
		PHYS 342 Mechanics (PHYS 251)
		PHYS 351 Electricity & Magnetism (PHYS 251)
		PHYS 462 Quantum Mechanics (PHYS 251, MATH 256, and consent)
		PHYS 473 Statistical Mechanics (PHYS 231)

b. Cognate Courses (16 credit hours)

		MATH 151 Calculus I
		MATH 152 Calculus II (MATH 151)
		MATH 255 Vector Calculus (MATH 152)
		MATH 256 Linear Algebra (MATH 255 or MATH 152 & consent)

c. Elective Courses (4 credit-hours selected from the following list):

PHYS 281, 382, 490, MATH312, CHEM451, PHYS 399/499

Course 1: _____

**Students seeking a Physics major with a concentration in Applied Physics must select (c) from the following list: PHYS 342, 382, 473, 490, CHEM 451, COSC 301, MATH 312, MATH 411

II. Every Physics major must complete a St. Mary's Project.

		PHYS 493. St. Mary's Project
		PHYS 494 St. Mary's Project

or

		This project may be in physics or another major discipline or a study area.
--	--	---