PHYSICS (M.A.)

For some students, the master's degree will be used as part of a continuing Ph.D. program; for others, it will be a terminal degree leading to employment in government laboratories, industrial programs, hospitals, teaching positions, and other occupations. The Master of Arts with a major in Physics is offered under Plan B, as described on the next tab.

Admission Requirements

Admission to this program is contingent upon admission to the Graduate School (http://bulletins.wayne.edu/graduate/general-information/admission/). In addition, applicants must satisfy the following criteria.

Prerequisite Preparation

Prerequisite preparation should include:

Code	Title	Credits
A minimum of general college physics with laboratory equivalent to:		
PHY 2170	University Physics for Scientists I	
PHY 2180	University Physics for Scientists II	
PHY 3300	Introductory Modern Physics	
Fifteen credits in intermediate physics courses, for example, those equivalent to the following:		
PHY 5100	Methods of Theoretical Physics I	
PHY 5200	Classical Mechanics I	
PHY 5210	Classical Mechanics II	
PHY 5340	Optics	
PHY 6400	Quantum Physics I	
PHY 6410	Quantum Physics II	
PHY 6500	Thermodynamics and Statistical Physics	
PHY 6600	Electromagnetic Fields I	
PHY 6610	Electromagnetic Fields II	
PHY 6850	Modern Physics Laboratory	
Mathematics equivalent to mathematics prerequisites required in those physics courses		
A minimum of general college chemistry with laboratory equivalent to:		
CHM 1100 & CHM 1130	General Chemistry I and General Chemistry I Laboratory	

The Graduate Record Examination, both the General section and the Physics subject test, is strongly recommended as a counseling aid in preparing the student's plan of study.

Program Requirements

The Master of Arts degree is offered by this Department only under the following option:

Plan B: *Twenty-nine credits in course work plus a three-credit essay.*

1. The following physics courses or their equivalents must be completed or must have been completed previously at the undergraduate level.

Code	Title	Credits
PHY 5100	Methods of Theoretical Physics I	3
PHY 5210	Classical Mechanics II	3
PHY 6400	Quantum Physics I	4
PHY 6410	Quantum Physics II	3
PHY 6500	Thermodynamics and Statistical Physics	4
PHY 6600	Electromagnetic Fields I	4
PHY 6610	Electromagnetic Fields II	3

2. Mathematics equivalent to mathematics prerequisites required for the course work listed above.
3. At least nine credits of coursework in physics at the 7000-level or above (exclusive of PHY 7990, PHY 7996, PHY 7999, PHY 8995, PHY 8999).
4. PHY 7999 Master's Essay Direction.
5. A departmental final oral examination is required of all candidates.