PHYSICS MINOR

The minor in Physics is a perfect fit for students interested in science and with aptitude in mathematics, but who do not wish to pursue a career in physics. A minor in physics gives a strong basic background in physics and mathematics that will enhance a career in other areas such as: chemistry, biology, social sciences, computational sciences, humanities, or business.

Related Programs

Major

- Biophysics (BS) (https://catalog.luc.edu/undergraduate/arts-sciences/physics/biophysics-bs/)
- Physics (BS) (https://catalog.luc.edu/undergraduate/arts-sciences/physics/physics-bs/)

Combined

- Physics (BS) + Engineering (BS) (https://catalog.luc.edu/undergraduate/arts-sciences/physics/physics-bs-engineering-bs/)

Curriculum

A minimum grade of C- must be earned to satisfy a course requirement and a 2.0 minimum overall GPA is required for each major or minor. Final confirmation of degree requirements is subject to department, school, and university approval.

Code	Title	Hours
Required Courses		
Physics Courses		
PHYS 121	College Physics I with Calculus Lecture/ Discussion	3
PHYS 111L	College Physics Laboratory I	1
PHYS 122	College Physics II with Calculus Lecture/ Discussion	3
PHYS 112L	College Physics Lab II	1
PHYS 235	Modern Physics	3
PHYS 235L	Modern Physics Laboratory	1
Physics Elective		
Select one 200/300 level Physics or equivalent course		3
MATH 355	Methods of Applied Mathematics	
PHYS 200-Level Course		
PHYS 300-Level Course		
Math Courses		
MATH 161	Calculus I	4
MATH 162	Calculus II	4
MATH 263	Multivariable Calculus	4
MATH 264	Ordinary Differential Equations	3
Total Hours		**30**

Suggested Sequence of Courses

The below sequence of courses is meant to be used as a suggested path for completing coursework. An individual student's completion of requirements depends on course offerings in a given term. Students should consult their advisor for assistance with course selection.

Course	Title	Hours
Year 1		
Fall		
PHYS 121	College Physics I with Calculus Lecture/ Discussion	3
PHYS 111L	College Physics Laboratory I	1
MATH 161	Calculus I	4
	Hours	**8**
Spring		
PHYS 122	College Physics II with Calculus Lecture/ Discussion	3
PHYS 112L	College Physics Lab II	1
MATH 162	Calculus II	4
	Hours	**8**
Year 2		
Fall		
PHYS 235	Modern Physics	3
PHYS 235L	Modern Physics Laboratory	1
MATH 263	Multivariable Calculus	4
	Hours	**8**
Spring		
MATH 264	Ordinary Differential Equations	3
PHYS 300-Level Course		3
	Hours	**6**
	Total Hours	**30**

Learning Outcomes

The minor in Physics is a perfect fit for students interested in science and with aptitude in mathematics, but who do not wish to pursue a career in physics. A minor in physics gives a strong basic background in physics and mathematics that will enhance a career in other areas such as: chemistry, biology, social sciences, computational sciences, humanities, or business.

Students take the basic lecture and laboratory physics courses with the physics majors, including a participation in the Freshman Projects; they also take the basic mathematics courses.

By completing the Minor in Physics, students will:

- Acquire foundational knowledge in the physical sciences
- Possess an understanding of the basic mathematics needed to solve problems
- Acquire basic skills for analytical thinking and problem solving
- Gain an understanding and appreciation of interdisciplinary approach involving physical sciences, mathematics and other disciplines.