

# PHYSICS MINOR

This minor is available to help prepare for careers in the field of Physics.

Code	Title	Credits	Completed
<b>Minor Requirements (20 credits)</b>			
INPHYS-241	University Physics I	4	_____
PHYS-242	University Physics II	4	_____
PHYS-275	University Physics III	4	_____
Select <b>two</b> of the following:		8	_____
MATH-312	Differential Equations		_____
PHYS-339	Classical Mechanics		_____
<b>Total Credits</b>		<b>20</b>	_____

## Upon completion of the Physics Minor, students will:

- Have knowledge of and an ability to apply calculus, linear algebra, and statistical methods to the solution of chemical and physics related problems.
- Have an understanding of the applications and principles of calculus-based physics to the analysis of systems.
- Have the ability to characterize systems, including the ability to systematically acquire, analyze, and interpret data.
- Have the ability to recognize, formulate, and model processes with the primary intent of recommending and implementing process improvement.
- Be able to effectively serve on interdisciplinary teams and, in many cases, be capable of leading / facilitating these teams.
- Understand that physics is a profession imposing significant social and ethical responsibilities with global implications that must be effectively addressed.
- Have the ability to evaluate, select and use the modern computer and information technology tools and techniques required for professional practice in the physics.
- Understand the major concepts and assumptions of physics as it relates the physical and life sciences to technology and society.
- Understand the principles of physics, procedures of inquiry, and scientific dispositions, and learning experiences that make these aspects of the subject matter meaningful.
- Understand the importance of developing critical thinking, problem solving and performance skills as related to the profession.
- Understand the role of communication and the use of knowledge of effective verbal and nonverbal techniques to foster active inquiry, collaboration, and supportive interaction in the field.
- Understand the meaning of life-long learning, and foster relationships with colleagues and agencies in the larger community to develop professionally.