

**Course:** PHY 123

**Course Title:** Introduction to Physics

**Credit Hours:** 4

**Department:** Physics, Astronomy, & Materials Science

**Prerequisite:** C or better in MTH 136 or MTH 287 or eligibility for enrollment in MTH 261.

*May also receive credit for this course through Advanced Placement; International Baccalaureate*

**General Education Area:**

NATURAL WORLD - Physical Sciences (*GEC 108 (w/lab) / GEC 109 (no lab)*)

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*Information submitted by a department representative on 4/30/2021 3:34:28 PM – Compiled by Darren Wienberg, Academic Advising & Transfer Center*

**Typically Offered During:**

Fall Full Semester:	YES	Fall 1 <sup>st</sup> Block:	NO	Fall 2 <sup>nd</sup> Block:	NO
Spring Full Semester:	YES	Spring 1 <sup>st</sup> Block:	NO	Spring 2 <sup>nd</sup> Block:	NO
Summer:	YES				

**Typical Instructional Modality:**

Traditional (seated):	YES	Blended:	YES	Internet:	YES
Online Video:	YES	Web Conference:	NO		

**May Also Count Toward Department Offering:**

Major:	NO	Minor:	YES	Certificate:	NO
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*Please see online published semester class schedule and undergraduate catalog for detailed course offering information.*

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***How do you describe the course to students when they ask “What is this class about?” (Without using the catalog description)?***

Do you want to predict the future? We mathematically model the physical universe and parts thereof. With these we can predict the motions of galaxies or molecules and things between. We also model what happened in the past, like energy flows through the solar system or our bodies. We look at a lot of specific problems so we can learn to calculate things related to the world in and around us. For a physics course with heavier emphasis on mathematics see PHY203 or see PHY100 for a general science course.

***Beyond meeting a General Education requirement, what benefits can students realize from choosing this course?***

Learning problem analysis and solution; Learning details of how interactions between parts contribute to interactions with the whole; Learning to use instruments to control and measure the happenings around us.

***Other than your major/minor/certificate students, what groups of students could find this course relevant to their degree program or career path?***

Almost all students applying scientific and mathematical principles to their chosen career path. These include: all disciplines of Biology, Cell and Molecular Biology, Chemistry, Clinical Laboratory Medical Technology, Computer Science, Construction Management, Exercise and Movement Science, Geology, Mathematics, Psychology, Sports Medicine, and Pre-Professional: Medical, Pharmacy, and Physician Assistant.

***Catalog Description (Fall 2022 Undergraduate Catalog)***

An introduction to physical theories covering the content areas of mechanics, fluids, sound, and thermodynamics. A knowledge of the laws of Physics will help the student better understand the world and how these laws can be used to make informed decisions to improve society. A grade of "C" or better is required in this course to take PHY 124.