

# Physics (PH)

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## Courses

### ***PH 114 Natural Science-Physical: 4 semester hours***

This course is designed for students whose major interests lie outside the field of science. It provides a basis for appreciating the contributions of science to modern society through the development of an understanding of some of the basic laws and theories of physics, chemistry, and astronomy. No previous chemistry or physics is required. Weekly three hour lecture and two hour lab.

### ***PH 115 Introduction To Earth Science: 4 semester hours***

This is an introductory course in earth science that covers geologic origins, history and evolution of the earth along with basic identification of minerals. Topics included are: origins and history of the mineral layers, plate tectonics, geologic time, fossil record, and landform regions in Iowa. Field trips will be included, probably on weekends. Weekly three hour lecture and two hour lab.

### ***PH 151 Principles of Physics I: 4 semester hours***

The first of a 2-semester introductory physics sequence using algebra and trigonometry; covers mechanics, fluids, heat and thermodynamics, vibrations, waves, and sound. Fall semester, weekly three hours of lecture and two hours of laboratory. Prerequisite: C or better in MA 139 or more advanced mathematics course.

### ***PH 152 Principles of Physics II: 4 semester hours***

This course is a continuation of PH 151 that covers electricity and magnetism, optics, relativity, and selected topics in modern physics. Spring semester, weekly three hours of lecture and two hours of laboratory. Prerequisite: C or better in PH 151.