

## PHY - PHYSICS (PHY)

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### **PHY 201 Physics I 4 SHC**

This is the first in a sequence of physics courses. Topics include mechanics, wave motion, sound, heat, electromagnetism, optics and modern physics.

Prerequisites: ENG 100 and RDG 100, or RWR 100, and a minimum grade of C in MAT 110 or appropriate placement test scores.

Lecture Hours: 3

Lab/Clinical Hours: 3

### **PHY 202 Physics II 4 SHC**

This course covers physics topics, including mechanics, wave motion, sound, heat, electromagnetism, optics and modern physics.

Prerequisites: PHY 201.

Lecture Hours: 3

Lab/Clinical Hours: 3

### **PHY 221 University Physics I 4 SHC**

This is the first of a sequence of courses. The course includes a calculus based treatment of the following topics: vectors, laws of motion, rotation, vibratory and wave motion.

Prerequisites: Minimum grade of C in MAT 140.

Lecture Hours: 3

Lab/Clinical Hours: 3

### **PHY 222 University Physics II 4 SHC**

This course is a continuation of calculus based treatment of the following topics: thermodynamics, kinetic theory of gases, electricity and magnetism including electrostatics, dielectrics, electric circuits, magnetic fields and induction phenomena.

Prerequisites: PHY 221.

Lecture Hours: 3

Lab/Clinical Hours: 3

### **PHY 223 University Physics III 4 SHC**

This course is a continuation of the calculus based treatment of the following topics: particle and wave aspects of matter and radiation, statistical mechanics, solid state and nuclear physics.

Prerequisites: PHY 222.

Lecture Hours: 3

Lab/Clinical Hours: 3