

PHYSICS

PHYS 201. COLLEGE PHYSICS I (3)

An algebra- and trigonometry-based treatment of the fundamentals of selected classical physics topics including motion, force, Newton's laws, energy, momentum, gravitation, rotation, acoustics, fluid dynamics, and thermodynamics. PHYS 201L must be taken concurrently with PHYS 201.

PHYS 201L. COLLEGE PHYSICS I LABORATORY (1)

A two hour per week laboratory course focusing on selected classical physics topics including motion, force, Newton's laws, energy, momentum, gravitation, rotation, acoustics, fluid dynamics, and thermodynamics. Must be taken concurrently with PHYS 201.

PHYS 202. COLLEGE PHYSICS II (3)

An algebra- and trigonometry-based treatment of the fundamentals of selected classical and modern physics topics including acoustics, fluid dynamics, thermodynamics, electromagnetism, optics, relativity, and quantum mechanics. PHYS 202L must be taken concurrently with PHYS 202. Prerequisite: PHYS 201.

PHYS 202L. COLLEGE PHYSICS II LABORATORY (1)

A two hour per week laboratory course focusing on selected classical and modern physics topics including acoustics, fluid dynamics, thermodynamics, electromagnetism, optics, relativity, and quantum mechanics. Must be taken concurrently with PHYS 202. Prerequisite: PHYS 201L.

PHYS 221. GENERAL PHYSICS I (3)

A calculus-based treatment of fundamentals of selected classical physics topics including motion, force, Newton's laws, energy, momentum, gravitation, rotation, acoustics, fluid dynamics, and thermodynamics. PHYS 221L must be taken concurrently with PHYS 221. Prerequisite or corequisite: MATH 207.

PHYS 221L. GENERAL PHYSICS I LABORATORY (1)

A two hour per week laboratory course focusing on selected classical physics topics including motion, force, Newton's laws, energy, momentum, gravitation, rotation, acoustics, fluid dynamics, and thermodynamics. Must be taken concurrently with PHYS 221.

PHYS 222. GENERAL PHYSICS II (3)

A calculus-based treatment of the fundamentals of selected classical and modern physics topics including acoustics, fluid dynamics, thermodynamics, electromagnetism, optics, relativity, and quantum mechanics. PHYS 222L must be taken concurrently with PHYS 222. Prerequisite: PHYS 221.

PHYS 222L. GENERAL PHYSICS II LABORATORY (1)

A two hour per week laboratory course focusing on selected classical and modern physics topics including acoustics, fluid dynamics, thermodynamics, electromagnetism, optics, relativity, and quantum mechanics. Must be taken concurrently with PHYS 222. Prerequisite: PHYS 221L.

PHYS 322. ELECTRICITY AND MAGNETISM (3)

Principles of electricity and magnetism with practical applications. Prerequisites: PHYS 222 and MATH 208.

PHYS 323. MODERN PHYSICS (3)

Topics will include special relativity, atomic structure, nuclear structure, solid state physics, and elementary particles. Prerequisites: PHYS 222 and MATH 207.

PHYS 330. ADVANCED LABORATORY (2)

A series of laboratory experiments in electricity, magnetism, mechanics, and modern physics. Six hours per week. Prerequisites: PHYS 221, 222.

PHYS 401, PHYS 404. SPECIAL PROJECTS (1 EACH)

Experimental and theoretical research projects in specific areas of physics. Project assignment dependent upon student's ability and interest.