

# PHYS: PHYSICS (PHYS)

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## PHYS 100. Physical Science. (1-4 Credits)

This physical science course is designed for non-science majors. It covers basic physical science areas relating to motion, momentum, angular momentum, energy, gravity, and thermodynamics. Co-requisite: PHYS 100.

## PHYS 105. Introduction to Physics I. (1-3 Credits)

A study of the basic concepts of physics including vector algebra, motion, momentum, angular momentum, energy, gravity and thermodynamics.

This course is designed for science students not majoring in physics. Lab Laboratory experiments in measurement techniques, mechanics, heat, and vibrations and waves emphasizing proper methods of data and error analysis designed to complement PHYS 105.

## PHYS 106. Introduction to Physics II. (1-3 Credits)

A continuation of PHYS 105 treating electrostatics, magnetism, circuits, optics, relativity, atomic structure, the nucleus and fundamental particles.

Pre-requisite: PHYS 105 Introduction to Physics I Lab A continuation of PHYS 105 treating electrostatics, magnetism, circuits, optics, relativity, atomic structure, the nucleus and fundamental particles. Pre-requisite: PHYS 105 Introduction to Physics I.

## PHYS 112. General Physics I. (1-4 Credits)

A calculus-based study of the basic concepts of physics. Topics include vector algebra, kinematics, dynamics of single and many-particle systems, gravitation, energy, momentum, conservation laws, circular and rigid body motion, elasticity, fluid mechanics, thermal equilibrium, temperature, and the laws of thermodynamics with applications to ideal gases and thermodynamic processes. Co-requisite: MATH 200 Calculus I Lab Laboratory experiments in mechanics, fluids, and heat designed to compliment PHYS 112. Co-requisite: PHYS 112 General Physics I.

## PHYS 113. General Physics II. (1-4 Credits)

A continuation of PHYS 112 treating electromagnetism and optics. Pre-requisite: PHYS 112 General Physics I Co-requisite: MATH 201 Calculus II Lab Laboratory experiments in electromagnetism and optics designed to complement PHYS 113. Pre-requisite: PHYS 112 General Physics I Laboratory Co-requisite: PHYS 113 General Physics II.

PHYS 116. General College Physics I. (1-4 Credits)

PHYS 117. General Physics II. (1-4 Credits)

PHYS 120. Household Physics. (1-4 Credits)

PHYS 122. Physics Of Music. (2 Credits)

PHYS 214. General Physics III. (1-4 Credits)

PHYS 215. General Physics IV. (1-4 Credits)

PHYS 217. Intermediate Laboratory I. (2 Credits)

PHYS 218. Intermediate Laboratory II. (2 Credits)

PHYS 300. Practicum. (3 Credits)

PHYS 301. Contemporary Issues In Physics. (4 Credits)

PHYS 302. Conceptual Physics. (1-3 Credits)

PHYS 311. Optical Physics. (3 Credits)

PHYS 312. Thermal Physics. (1-4 Credits)

PHYS 313. Physical Mechanics. (3 Credits)

PHYS 319. Advanced Laboratory I. (1-4 Credits)

PHYS 320. Advanced Laboratory II. (2 Credits)

PHYS 321. Physics Demonstrations. (3 Credits)

PHYS 350. Continuum Mechanics. (3 Credits)

PHYS 351. Fundamentals Of Accoustics. (3 Credits)

PHYS 414. Electromagnetism & Relativity. (3 Credits)

PHYS 415. Electromagnetism & Relativity. (3 Credits)

PHYS 416. Introduction Quantum Mechanics. (3 Credits)

PHYS 417. Quantum Mechanics II. (3 Credits)

PHYS 418. Methods Of Theoretical Physics. (3 Credits)

PHYS 419. Intro to Condensed Matter Phys. (3 Credits)

PHYS 421. Physics Demonstration II. (3 Credits)

PHYS 422. Atomic & Molecular Physiscs. (3 Credits)

PHYS 423. Nuc & Part Pysics. (3 Credits)

PHYS 424. Senior Thesis. (2 Credits)

PHYS 430. Science Teach Middle & Second. (3 Credits)

PHYS 478. Student Teach Secondary School. (8 Credits)

PHYS 480. Special Topics. (3 Credits)

PHYS 481. Biophysics. (3 Credits)