

# PHYSICS (PH)

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## PH 201: General Physics w Algebra I (5)

Algebra-based physics including topics: mechanics, fluids, waves, thermodynamics, electricity and magnetism, light and optics. PH201: Units, vectors, motion, dynamics, energy, and momentum. PH 202: Rotation Gravitation, equilibrium, fluids, and thermodynamics. Recommended for pre-professional health care programs. Courses must be taken in sequence, or with consent of instructor. 4 lecture, 3 lab hrs/wk  
**Registration-Enforced Prerequisite/Corequisite:** MTH 111Z or equivalent.  
**Terms Typically Offered:** Fall

## PH 202: General Physics w Algebra II (5)

Algebra-based physics including topics: mechanics, fluids, waves, thermodynamics, electricity and magnetism, light and optics. PH 201: Units, vectors, motion, dynamics, energy, and momentum. ecommended for pre professional health care programs. Courses must be taken in sequence, or with consent of instructor. 4 lecture, 3 lab hrs/wk  
**Registration-Enforced Prerequisite:** PH 201  
**Registration-Enforced Pre-requisite or Co-Requisite:** MTH 111Z or equivalent.  
**Terms Typically Offered:** Winter

## PH 203: General Physics w Algebra III (5)

Algebra-based physics including topics: mechanics, fluids, waves, thermodynamics, electricity and magnetism, light and optics. PH 201: Units, vectors, motion, dynamics, energy, and momentum. Registration-Enforced Pre-requisite or Co-requisite: MTH 111 or equivalent. PH 202: Rotation, gravitation, equilibrium, fluids, and thermodynamics. PH 203: Waves, sound, electricity and magnetism, light, and optics. Registration-Enforced Recommended for pre professional health care programs. Courses must be taken in sequence, or with consent of instructor. 4 lecture, 3 lab hrs/wk  
**Prerequisite:** PH 202.  
**Registration-Enforced Prerequisite:** PH 201.  
**Terms Typically Offered:** Spring

## PH 211: General Physics w-Calculus I (5)

Calculus-based physics including mechanics, gravitation, fluids, harmonic motion, electricity and magnetism, light and optics, and thermodynamics. PH 211: Units, vectors, motion, dynamics, energy, and momentum. Registration-Enforced Prerequisite or Note: PH 201-203 recommended for pre-professional health care programs. Courses must be taken in sequence, or with consent of instructor. 4 lecture, 3 lab hrs/wk  
**Corequisite:** MTH 251.  
**Terms Typically Offered:** Fall

## PH 212: General Physics w-Calculus II (5)

Calculus-based physics including mechanics, gravitation, fluids, harmonic motion, electricity and magnetism, light and optics, and thermodynamics. PH 212: Rotation, rotational dynamics, equilibrium, elasticity, fluids, oscillations, and waves.  
**Registration-Enforced Prerequisite:** PH 211, 4 lecture, 3 lab hrs/wk.  
**Registration-Enforced Prerequisite/Corequisite:** MTH 252.  
**Terms Typically Offered:** Winter

## PH 213: General Physics w-Calculus III (5)

Calculus-based physics including mechanics, gravitation, fluids, harmonic motion, electricity and magnetism, light and optics, and thermodynamics. PH 213: Sound, electric forces and electric fields and potentials, capacitance, electronics, magnetism, light and optics, and thermal physics. Note: PH 201-203 recommended for pre-professional health care programs. Courses must be taken in sequence, or with consent of instructor. 4 lecture, 3 lab hrs/wk  
**Registration-Enforced Prerequisite:** PH 212.  
**Terms Typically Offered:** Spring