

Physical Science (PHSC)

Contact the Physics and Engineering Department for further information.
(760) 744-1150, ext. 2505
Office: NS-355B

COURSE OFFERINGS

PHSC 100 Introduction to Physical Science (3)

3 hours lecture

Transfer acceptability: CSU; UC – No credit for students with prior lecture credit in ASTR, CHEM, GEOL or PHYS

The study of selected topics from the fields of astronomy, geology, physics, chemistry, and their related sciences through lectures, films, and demonstrations. A general education course designed particularly for non science majors. For teacher training see PHSC 101.

PHSC 100L Introduction to Physical Science Laboratory (1)

3 hours laboratory

Prerequisite: A minimum grade of 'C' in PHSC 100, or concurrent enrollment in PHSC 100

Transfer acceptability: CSU; UC – No credit for students with prior lab credit in ASTR, CHEM, GEOL or PHYS

The study of selected topics from the fields of astronomy, geology, physics, chemistry, and their related sciences through lab exercises. A general education course designed particularly for non-science majors. For teacher training see PHSC 101L.

PHSC 101 Principles of Physical Science (3)

3 hours lecture

Transfer acceptability: CSU

The study of selected topics from the fields of physics and chemistry and their related sciences through lectures, films, and demonstrations. A general education course designed particularly for non science majors. Especially recommended for teacher training.

PHSC 101L Principles of Physical Science Laboratory (1)

3 hours laboratory

Prerequisite: A minimum grade of 'C' in PHSC 101, or concurrent enrollment in PHSC 101

Transfer acceptability: CSU

The study of selected topics from the fields of physics and chemistry and their related sciences through lab exercises. A general education course designed particularly for non-science majors; not open to majors in physics, chemistry, or engineering. Especially recommended for teacher training.

Physics (PHYS)

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COURSE OFFERINGS

*UC credit limitations --

- No credit for PHYS 101 or 102 if taken after 120, 200, or 230
- PHYS 120, 121 or 200, 201 or 230, 231, 232 combined: maximum credit, one series
- PHYS 200 and 230 combined: maximum credit, one course
- PHYS 201 and 231 combined: maximum credit, one course

PHYS 101 Introduction to Physics (4)

3 hours lecture - 3 hours laboratory

Prerequisite: A minimum grade of 'C' in MATH 50 or one year of high school Algebra

Note: Not open to students with prior credit in PHYS 100, 110, 115, 120, 125, 230, 231, and 232

Transfer acceptability: CSU; UC*

An introductory survey course in classical and modern physics. Not intended for science majors.

PHYS 102 Introduction to Physics (Lecture) (3)

3 hours lecture

Prerequisite: A minimum grade of 'C' in MATH 50 or one year of high school Algebra

Note: Not open to students with prior credit in PHYS 101, 110, 115, 120, 125, 230, 231, and 232

Transfer acceptability: CSU; UC*

An introductory survey course in classical and modern physics. Not intended for science majors.

PHYS 120 General Physics (4)

3 hours lecture - 3 hours laboratory

Prerequisite: A minimum grade of 'C' in MATH 110

Recommended preparation: MATH 115

Transfer acceptability: CSU; UC*

C-ID PHYS 105; C-ID PHYS 100S for PHYS 120 and 121 combined

The fundamental principles of classical mechanics, wave motion, sound, thermodynamics, and fluids.

PHYS 130 Preparation for Principles of Physics (3)

3 hours lecture

Prerequisite: Completion of, or concurrent enrollment in MATH 140

Transfer acceptability: CSU (pending)

Provides the applied mathematics and problem solving/presentation skills necessary for success in an introductory physics sequence for physics and engineering majors. Students will learn how to analytically solve physics problems and properly prepare laboratory reports. Reinforcement of math concepts will be emphasized throughout.

PHYS 121 General Physics (4)

3 hours lecture - 3 hours laboratory

Prerequisite: A minimum grade of 'C' in PHYS 120

Transfer acceptability: CSU; UC*

C-ID PHYS 110; C-ID PHYS 100S for PHYS 120 and 121 combined

A second semester continuation of PHYS 120. The fundamental principles of optics, electricity, magnetism, and modern physics.

PHYS 197 Physics Topics (.5-5)

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture or laboratory may be scheduled by the department. Refer to Class Schedule.

Transfer acceptability: CSU; UC - Credit determined by UC upon review of course syllabus

Topics in Physics. See Class Schedule for specific topic offered. Course title will designate subject covered.

PHYS 200 Fundamentals of Physics (5)

4 hours lecture - 3 hours laboratory

Prerequisite: A minimum grade of 'C' in MATH 140, or concurrent enrollment in MATH 140

Note: PHYS 200-201 series not recommended for majors in engineering, computer science or physics; PHYS 230 series recommended for majors in engineering, computer science, or physics.

Transfer acceptability: CSU; UC*

A calculus-based course in classical mechanics, waves, sound, fluids and thermodynamics, with an emphasis on life science, pre-professional, and architectural fields.

PHYS 201 Fundamentals of Physics (5)

4 hours lecture - 3 hours laboratory

Prerequisite: A minimum grade of 'C' in PHYS 200

Recommended preparation: MATH 141, or concurrent enrollment in MATH 141

Note: PHYS 200-201 series not recommended for majors in engineering, computer science or physics; PHYS 230 series recommended for majors in engineering, computer science, or physics.

Transfer acceptability: CSU; UC*

A calculus-based course in classical electromagnetism, optics and atomic physics, with an emphasis on life science, pre-professional, and architectural fields.