NOTE: The University of California has a credit restriction on certain combinations of physics courses. See your counselor for detailed information on the current UC Articulation Agreement.

**Physics (PHYS)**

**PHYS 310  Conceptual Physics  3 Units**
Prerequisite: None.
Advisory: MATH 34 with a grade of “C” or better, or placement through the assessment process.
General Education: AA/AS Area IV; CSU Area B1; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course presents the physical laws that tie together the diverse phenomena of nature. This course uses a descriptive approach, with limited use of basic algebra, to increase the students’ understanding of the everyday physical world.

**PHYS 350  General Physics  4 Units**
Prerequisite: High School Trigonometry or a course with equivalent Trigonometry content or MATH 335 with a grade of “C” or better.
General Education: AA/AS Area IV; CSU Area B1; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
This course is a non-calculus based survey of general physics. It is designed for biological science students, including those in pre-medical, pre-dental, optometry, agricultural, and forestry programs. Topics include kinematics, Newton's Laws, dynamics of rigid bodies, work and energy, momentum, rotational motion, fluids, thermodynamics, and oscillatory motion (including mechanical waves and sound). (C-ID PHYS 105)

**PHYS 410  Mechanics of Solids and Fluids  5 Units**
Prerequisite: MATH 400 with a grade of “C” or better
Corequisite: MATH 401
General Education: AA/AS Area IV; CSU Area B1; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB; 18 hours DIS
Topics covered include linear and rotational motion, Newton’s laws, dynamics of rigid bodies, harmonic motion, and liquids. This course is for physics, mathematics, chemistry, architecture, and engineering majors. (C-ID PHYS 205)

**PHYS 420  Electricity and Magnetism  5 Units**
Prerequisite: PHYS 410 and PHYS 410 with grades of “C” or better
General Education: AA/AS Area IV; CSU Area B1; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB; 18 hours DIS
This course presents an in-depth treatment of electricity and magnetism and stresses problem-solving. Topics covered include charge and electric force, electric fields, electrical potential, magnetism, electromagnetic induction, and DC and AC circuit theory. This course is for physics, mathematics, chemistry, architecture, engineering, and computer science majors. (C-ID PHYS 210)

**PHYS 430  Heat, Waves, Light and Modern Physics  5 Units**
Prerequisite: PHYS 410 with a grade of “C” or better
Corequisite: MATH 402
General Education: AA/AS Area IV; CSU Area B1; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB; 18 hours DIS
This course examines thermodynamics, wave theory, light and sound, geometrical and physical optics (including lenses and mirrors), quantum physics, and high-energy physics. The treatment of topics would be most appropriate for physics, mathematics, chemistry, architecture, and engineering majors. (C-ID PHYS 215)

**PHYS 494  Topics in Physics  .5-4 Units**
Prerequisite: None.
Course Transferable to UC/CSU
Hours: 72 hours LEC
This course is designed to enable both science and non-science students to learn about recent developments in physics. Selected topics would not include those that are part of current course offerings. UC transfer credit will be awarded only after the course has been evaluated by the enrolling UC campus. The units completed for this course cannot be counted towards the minimum 60 units required for admissions.
PHYS 495  Independent Studies in Physics  1-3 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 162 hours LAB
This course is designed to allow a student or group of students to study selected topics or areas of physics that go beyond the other courses offered by the Physics department. Topics or areas of study are chosen by mutual agreement between the students and the professor overseeing the course. UC transfer credit will be awarded only after the course has been evaluated by the enrolling UC campus. The units completed for this course cannot be counted towards the minimum 60 units required for admission to UC.

PHYS 499  Experimental Offering in Physics  .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offering. UC transfer credit will be awarded only after the course has been evaluated by the enrolling UC campus. The units completed for this course cannot be counted towards the minimum 60 units required for admissions.