PHYSICAL SCIENCE

PSCI 1  Principles of Physical Science
Units: 3.0  Hours: 3.0 Lecture
Transferable: CSU, UC; CSU-GE:B1, IGETC:5A; GAV-GE:B1
An introduction to the physical sciences for the non-science major. Attention is focused on fundamental laws of nature, their development and relation to the physical world. ADVISORY: Mathematics 205 and eligible for English 250 and 260.

PSCI 2  Introduction to Meteorology
Units: 3.0  Hours: 3.0 Lecture
Transferable: CSU, UC; CSU-GE:B1, IGETC:5A; GAV-GE:B1
An introductory course in Meteorology that is both descriptive and analytical on the physical principles affecting the earth’s weather. Topics covered include the nature of the atmosphere, solar energy, heat, temperature, pressure, stability, moisture, wind, storms, severe weather and forecasting. The course introduces climatology as a scientific study and will look at the earth’s climatic history, current research in climate modeling and the possibility of global climate change. ADVISORY: MATH 205.

PSCI 3  Ocean Studies
Units: 3.0  Hours: 3.0 Lecture
Transferable: CSU
Online Ocean Studies is an introductory oceanography course provided by the American Meteorological Society to undergraduates. The course is prepared by an experienced team of oceanographers and science educators. AMS Ocean Studies is produced in cooperation with the National Oceanographic and Atmospheric Administration. AMS Ocean Studies examines the world ocean from an Earth system perspective. The course emphasizes (1) the flow and transformations of water and energy into and out of the ocean, (2) the physical and chemical properties of seawater, (3) ocean circulation, (4) marine life and its adaptations, (5) interactions between the ocean and the other components of the Earth system (i.e., hydrosphere, atmosphere, geosphere, and biosphere), and (6) the human/societal impacts on and response to those Earth system interactions. AMS Ocean Studies is modeled after the highly successful AMS Weather Studies course. ADVISORY: MATH 205.

PHYSICS

PHYS 1  Introduction to Physics
Units: 4.0  Hours: 3.0 Lecture and 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:B1, B3, IGETC:5A; GAV-GE:B1, B3
This course is an introduction to the fundamental physical principles that control the world around us. Students will explore the fundamental principles of physics, their historical development, their application to everyday phenomena, and their impact upon political, social, and environmental issues. Laboratory exercises will explore the everyday world. ADVISORY: Mathematics 205.

PHYS 2A  General Physics
Units: 4.0  Hours: 3.0 Lecture and 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:B1, B3, IGETC:5A; GAV-GE:B1, B3, CAN:PHYS2, PHYS SEQ A
An introduction to the principles of physics using algebra and trigonometry. Topics include kinematics in one and two dimensions, vectors, equilibrium and non-equilibrium applications of Newton’s Laws, work and energy, momentum, systems of particles, rotational kinematics and dynamics, simple harmonic motion, elasticity, thermal physics, thermodynamics, and waves. PREREQUISITE: PHYSICS 4A.

PHYS 2B  General Physics
Units: 4.0  Hours: 3.0 Lecture and 3.0 Laboratory
Transferable: CSU, UC; CSU-GE:B1, B3, IGETC:5A; GAV-GE:B1, B3, CAN:PHYS4, PHYS SEQ A
An introduction to the principles of physics using algebra and trigonometry. Topics include electricity and magnetism, light and optics, modern physics, and an introduction to relativity. PREREQUISITE: Physics 2A ADVISORY: Eligible for English 250 and English 260.

PHYS 4A  Physics for Scientists and Engineers - Mechanics/Waves
Units: 4.0  Hours: 4.0 Lecture and 2.0 Laboratory
Transferable: CSU, UC; CSU-GE:B1, B3, IGETC:5A; GAV-GE:B1, B3; CAN:PHYS SEQ
An introduction to the principles of physics using calculus. Topics include kinematics in one, two and three dimensions, vectors, equilibrium and non-equilibrium applications of Newton’s Laws, work and energy, momentum, systems of particles, rotational kinematics and dynamics, simple harmonic motion, elasticity, and waves. PREREQUISITE: Physics 2A and Mathematics 1A ADVISORY: Eligible for English 250 and English 260.

POLITICAL SCIENCE

POLS 1  Introduction to American Government
Units: 3.0  Hours: 3.0 Lecture
Transferable: CSU, UC; CSU-GE:D8, IGETC:4H; GAV-GE:D2, F
Explores the development of American political institutions and their utilization in dealing with issues arising at the international, national and state levels. Emphasis is placed on those problems which have defined our federal system of government. California government and appropriate state institutions will be included as a vital part of our federal system of government. ADVISORY: Eligible for English 250 and English 260.

POLS 3  Introduction to Comparative Politics
Units: 3.0  Hours: 3.0 Lecture
Transferable: CSU, UC; CSU-GE:D8, IGETC:4H; GAV-GE:D2, F
Comparative survey of political institutions and processes around the globe. Selected nations may include, but are not restricted to: the United Kingdom, France, Germany, Japan, Russia, India, Nigeria, and Mexico. ADVISORY: Eligible for English 250 and English 260.

POLS 4  Introduction to International Relations
Units: 3.0  Hours: 3.0 Lecture
Transferable: CSU, UC; CSU-GE:D8, IGETC:4H; GAV-GE:D2, F
This course provides an introduction to key contemporary international problems and the means to analyze them. Major parts of the course cover such topics as war and peace, foreign policymaking, the international economy, and future trends in world politics.