

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 a 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, rotational kinematics and dynamics, simple harmonic motion, elasticity, thermal physics, thermodynamics, and waves. **PREREQUISITE:** MATH 8A or MATH 9. **ADVISORY:** Eligible for English 250 and English 260.

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/ Fluids/Wave

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.

PHYS 4B Physics for Sci/Engr--Electromagnetism

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

Fundamental principles of electricity and electromagnetism. Electric and magnetic fields, AC/ DC circuits, Maxwell's equations, and electromagnetic waves. Students gain experience in the application of computers in science. **PREREQUISITE:** Physics 4A **ADVISORY:** Mathematics 1B

PHYS 4C Physics for Sci/Engr--Thermodynamics/Optics/ Modern 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:PHYS SEQ

An introduction to the principles of physics using calculus. Topics include light, optics, interference, diffraction, thermal energy, the Laws of Thermodynamics, the kinetic theory of gases, and an introduction to relativity and modern physics. **PREREQUISITE:** Physics 4A.

Physiology: see Biological Sciences

POLITICAL SCIENCE

POLS 1 Introduction to American Government

Units: 3.0 **Hours:** 3.0 Lecture

Transferable: CSU, UC; CSU-GE:D8, IGETC:4H, 7A; GAV-GE:D1, D2; CAN:GOVT2

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.

General Education Requirements, pages 48-56

POLS 5 Introduction to Modern International Terrorism**Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU, UC; CSU-GE:D8, IGETC:4H; GAV-GE:D2

This course centers on conceptually defining terrorism (all types-foreign and domestic, left and right-wing, religious, environmental, and political, state and non-state), tracing the history and beginnings of modern international and domestic terrorism, critically examining the various U.S.- global responses to the 9-11-01 attacks, as well as generally evaluating and assessing how countries and people around the world try to cope with, prevent and/or respond to attacks by terrorist organizations, groups, or acts of terrorism perpetrated by nation-states or groups working with nation-states. This course has the option of a letter grade or pass/no pass. This course is also listed as AJ 5.

POLS 6 Introduction to Conflict Resolution**Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU; CSU-GE:D7; GAV-GE:D2

Introduction to Conflict Resolution introduces students to conflict resolution and mediation. Integrating theory and practice, students will assess core concepts about the causes and resolution of conflict, and will practice communication skills for conflict resolution. Students will examine how ethnicity, gender, and class affect power in conflict situations. They will be able to formulate appropriate conflict resolution strategies, and will develop and practice various basic co-mediation skills. This course has the option of a letter grade or pass/no pass. This course is also listed as PSYC 6 and CMUN 6. ADVISORY: English 250 and English 260.

POLS 8 Field Work in Politics**Units:** 1.0 TO 6.0 **Hours:****Transferable:** CSU

An intern program in practical politics and government administration offering students an opportunity to learn by doing. Interns are placed in the offices of public officials, government agencies, or political campaigns on the local, state and national levels. This is a pass/no pass course. ADVISORY: Consent of instructor. This is essential due to the necessity of screening intern applicants; completion of Political Science 1 or Political Science 3.

POLS 27 Contemporary Leadership**Units:** 2.0 TO 4.0 **Hours:** 1.5 TO 3.0 Lecture, 1.5 TO 3.0 Laboratory**Transferable:** CSU; GAV-GE:E2

A cross-disciplinary approach to the theory and practice of leadership. Includes effective communication styles including issues related to gender and culture. Class includes topics on ethics, power, and how to run effective meetings including the use of parliamentary procedure. Skills directly applicable to work, personal and college environments. May be repeated for a maximum of 10 units. Also listed as PSYC 27. ADVISORY: Eligible for English 250 and English 260.

PSYC 2 Early Child Development**Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU, UC; CSU-GE:D9, E, IGETC:4I; GAV-GE:D2

This course examines typical and atypical development within the psychosocial, cognitive, and physical domains from conception through the preschool years. Upon completion of this course, students will be able to evaluate theories and research of child development and effectively apply and communicate their understanding through observation and evaluation. This course is also listed as CD 2. This course has the option of a letter grade or pass/no pass. ADVISORY: Eligible for English 1A; transfer student consult with advisor.

PSYC 3 Child Growth and Development During the School Years**Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU, UC; CSU-GE:D9, E, IGETC:4I; GAV-GE:D2

This course examines typical and atypical development within the psychosocial, cognitive and physical domains from middle childhood through adolescence. Upon completion of this course, students will be able to evaluate theories and research of child development and effectively apply and communicate their understanding through observation and evaluation. This course has the option of a letter grade or pass/no pass. This course is also listed as CD 3. ADVISORY: Eligible for English 1A; transfer students consult with advisor.

PSYC 5 Self-Assessment and Career Development**Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU; CSU-GE:E2; GAV-GE:E2

A course designed to assist the student in learning more about personal values, personality, interests, exploration of career choice, and occupational opportunities through the use of various personal assessment instruments. The delivery options for this course include online and self-paced formats. This course is also listed as GUID 1. ADVISORY: Eligible for English 250 and English 260. \$12 fee will be charged for career assessment materials.

PSYC 6 Introduction to Conflict Resolution**Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU; CSU-GE:D7; GAV-GE:D2

Introduction to Conflict Resolution introduces students to conflict resolution and mediation. Integrating theory and practice, students will assess core concepts about the causes and resolution of conflict, and will practice communication skills for conflict resolution. Students will examine how ethnicity, gender, and class affect power in conflict situations. They will be able to formulate appropriate conflict resolution strategies, and will develop and practice various basic co-mediation skills. This course has the option of a letter grade or pass/no pass. This course is also listed as POLS 6 and CMUN 6. ADVISORY: English 250 and English 260.

PSYC 7 Cultural Context of Child and Family in a Diverse Society**Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU; CSU-GE:D7; GAV-GE:D2, F

Examines cultural influences on child-rearing practices, family values, and human development. Perspectives from social sciences are used to critique and review theoretical and practical implications of oppression and privilege as they apply to families, schools, and communities, including historical and socio-cultural factors. The processes of socialization and identity development, and the importance of respectful, reciprocal relationships that support and empower families. Self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access, media and schooling. Also listed as CD 7 and ANTH 9. ADVISORY: Eligible for English 250 and English 260.

PSYC 27 Contemporary Leadership**Units:** 2.0 TO 4.0 **Hours:** 1.5 TO 3.0 Lecture, 1.5 TO 3.0 Laboratory**Transferable:** CSU; GAV-GE:E2

A cross-disciplinary approach to the theory and practice of leadership. Includes effective communication styles including issues related to gender and culture. Class includes topics on ethics, power, and how to run effective meetings including the use of parliamentary procedure. Skills directly applicable to work, personal and college environments. May be repeated for a maximum of 10 units. Also listed as POLS 27. ADVISORY: Eligible for English 250 and English 260.

PSYCHOLOGY**PSYC 1A Introduction to Psychology****Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU, UC; CSU-GE:D9, IGETC:4I; GAV-GE:D2; CAN:PSY2

The nature, scope, methods, presuppositions, history, and fields of psychology together with the scientific study of factors influencing human behavior, human development, perception, learning, memory, emotion, personality, frustration, and psychotherapy. ADVISORY: Eligible for English 250 and English 260. C-ID: PSY 110

PSYC 1B Introduction to Psychology**Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU, UC; CSU-GE:D9, IGETC:4I; GAV-GE:D2

Continuation of Psychology 1A. This course stresses the biological basis of behavior including: neuroanatomy, the senses, perception, learning, thinking, and psychological disorders. PREREQUISITE: Completion of Psychology 1A with a grade of 'C' or better.