

**PHYS 4A Physics for Scientists and Engineers - Mechanics/Fluids/Wave****Units:** 4.0 **Hours:** 4.0 Lecture 2.0 Laboratory**Transferable:** CSU, UC; CSU-GE:B1, B3, IGETC:5A; GAV-GE:B1, B3; CAN: PHYS SEQ B

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 2.0 Laboratory**Transferable:** CSU, UC; CSU-GE:B1, B3, IGETC:5A; GAV-GE:B1, B3; CAN: PHYS SEQ B

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 3.0 Laboratory**Transferable:** CSU, UC; CSU-GE:B1, B3, IGETC:5A; GAV-GE:B1, B3; CAN: PHYS SEQ B

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

**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.

**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 AJ 6 and 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 12 Introduction to Political Thought****Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU, UC; CSU-GE:D8, IGETC:4H; GAV-GE:D2

This course provides students with an introduction to and grounding in classical and modern political thought. Students will be introduced to theorists such as Plato, Aristotle, Machiavelli, and Marx. Students will also examine such timeless questions as: "What is justice?" "What is the good life?" and "What is power?" among others. This course is also listed as PHIL 12. Previously POLS 2.

**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.

**POLS 299 U. S. Government****Units:** 3.0 **Hours:** 2.2 Lecture 2.3 Laboratory**Transferable:** No

This course is to prepare students to function effectively as responsible citizens in our democracy. Topics include the basic structure and functions of the state and federal government, civil rights, political parties, elections, and contemporary issues. Community service activities are required.

**PSYCHOLOGY****PSYC 1A Introduction to Psychology****Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU, UC; CSU-GE:D9, IGETC:4; 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.

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

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

A systematic study of the child from prenatal life through the preschool years. The course integrates the basic concepts of physical, cognitive and psychosocial development at each major stage of life during this period. 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 250 and English 260.