

APE 536 Adapted Physical Education**Units:** .5 OR 1.0 **Hours:** 1.5 OR 3.0 Laboratory

An individualized program of adapted physical education activities designed to meet the needs of students with physical disabilities. Develops an appreciation of physical activity as a regular planned contribution to one's overall fitness. May be repeated as necessary based on measurable progress as documented in the student's educational contract. This is a pass/no pass course.

APE 538 Adapted Cardiovascular Conditioning and Training**Units:** .5 OR 1.0 **Hours:** 1.5 OR 3.0 Laboratory

An individualized program of adapted exercises in weight training, stretching and cardiovascular conditioning for those individuals who have been disabled through stroke, cardiovascular accident, arthritis, multiple sclerosis, or other condition. May be repeated as necessary based on measurable progress as documented in the student's educational contract. This is a pass/no pass course.

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. **PREREQUISITE:** MATH 205, or MATH 430, or the equivalent, with a grade of "C" or better. **ADVISORY:** English 250 and English 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; CSU-GE:B1, IGETC:5A, GAV-GE:B1

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, 5C, 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 I**Units:** 4.0 **Hours:** 3.0 Lecture and 3.0 Laboratory**Transferable:** CSU, UC; CSU-GE:B1, B3, IGETC:5A, 5C, GAV-GE:B1, B3

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. (C-ID: PHYS 105), (C-ID: PHYS 100S: Phys 2A + Phys 2B) **PREREQUISITE:** MATH 8A **ADVISORY:** Eligible for English 250 and English 260.

PHYS 2B General Physics II**Units:** 4.0 **Hours:** 3.0 Lecture and 3.0 Laboratory**Transferable:** CSU, UC; CSU-GE:B1, B3, IGETC:5A, 5C, GAV-GE:B1, B3

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. (C-ID: PHYS 110) (C-ID: PHYS 100S: Phys 2A + Phys 2B) **PREREQUISITE:** Physics 2A with a grade of 'C' or better. **ADVISORY:** Eligible for English 250 and English 260

PHYS 4A Physics for Scientists and Engineers - Mechanics**Units:** 4.0 **Hours:** 3.0 Lecture and 3.0 Laboratory**Transferable:** CSU, UC; CSU-GE:B1, B3, IGETC:5A, 5C, GAV-GE:B1, B3

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. (C-ID: PHYS 205) (C-ID: PHYS 200S: Phys 4A + Phys 4B + Phys 4C) **PREREQUISITE:** Completion of Mathematics 1A with a grade of 'C' or better, AND completion of PHYS 2A with a grade of 'C' or better OR High School Physics with a grade of 'B' or better.

PHYS 4B Physics for Scientists and Engineers - Electricity and Magnetism**Units:** 4.0 **Hours:** 3.0 Lecture and 3.0 Laboratory**Transferable:** CSU, UC; CSU-GE:B1, B3, IGETC:5A, 5C, GAV-GE:B1, B3

An introduction to the principles of physics using calculus. Topics include charge, electric fields, Gauss' Law, electric potential, capacitance, current and resistance, circuit analysis, magnetic fields, Ampere's Law, Faraday's Law, and electromagnetic waves. (C-ID: PHYS 210) (C-ID: PHYS 200S: Phys 4A + Phys 4B + Phys 4C) **PREREQUISITE:** Completion of MATH 1B with a grade of 'C' or better, AND completion of PHYS 4A with a grade of 'C' or better.

PHYS 4C Physics for Scientists and Engineers - Heat, Optics, Modern Physics**Units:** 4.0 **Hours:** 3.0 Lecture and 3.0 Laboratory**Transferable:** CSU, UC; CSU-GE:B1, B3, IGETC:5A, 5C, GAV-GE:B1, B3

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. (C-ID: PHYS 215) (C-ID: PHYS 200S: Phys 4A + Phys 4B + Phys 4C) **PREREQUISITE:** Completion of MATH 1B with a grade of 'C' or better, AND completion of PHYS 4A with a grade of 'C' or better.

Physiology: see Biological Sciences**POLITICAL SCIENCE****POLS 1 Introduction to American Government****Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU, UC; CSU-GE:D, IGETC:4H, 7A, GAV-GE:D1, 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. (C-ID: POLS 110) **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:D, 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. (C-ID: POLS 130) 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:D, 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. (C-ID: POLS 140)

POLS 5 Introduction to Modern International Terrorism**Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU, UC; CSU-GE:D, 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:D, 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 7 Introduction to California Government and Politics**Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU; GAV-GE:D2, F

The purpose of this course is to provide students with an in-depth understanding of how the state of California is governed. Emphasis will be placed on local elections, political parties, legislative, executive, and judicial power, special interest groups, lobbying, urban politics, how such a diverse and multi-linguistic state be effectively governed, and policy-making, citizen activism and the importance of community service. Major events in the historical development of California and on current issues of significance will be examined in the context of the United States and California state constitutions. ADVISORY: English 250 and English 260.

POLS 9 Global Social Change**Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU, UC; CSU-GE:D, IGETC:4H, GAV-GE:D2, F

This course examines the social, economic and political forces that have led to a process known as "globalization." It explores how the global integration of societies, economies, and cultures fundamentally transforms human life with specific emphasis on: the global economy and economic development; transnational political organizations; culture and identity; the effect of globalization on social stratification, including gender/race/ethnic inequalities; transnational migration; environmental change; and transnational social movements. Also listed as SOC 9. PREREQUISITE: English 250 ADVISORY: English 1A

POLS 10 Introduction to Political Science**Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU; GAV-GE:D2, F

Introduction to Political Science introduces students to the discipline of political science. It is designed to familiarize students with basic political concepts, political ideologies, theories, political systems, and sub-fields within the field of political science. (C-ID: POLS 150)

POLS 12 Introduction to Political Thought**Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU, UC; CSU-GE:D, 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. (C-ID: POLS 120)

POLS 27 Contemporary Leadership**Units:** 3.0 **Hours:** 2.0 Lecture and 3.0 Laboratory**Transferable:** CSU; CSU-GE:E, GAV-GE:E

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. Also listed as PSYC 27 and GUID 27. ADVISORY: Eligible for English 250 and English 260.

POLS 32 Introduction to Research Methods**Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU

An overview of the methodologies used in experimental, quasi-experimental and non-experimental research in psychology. Students will learn how to design and conduct research, including formulating hypotheses, reviewing the literature, evaluating ethical issues, selecting methodologies, organizing data, applying statistics, and writing reports. This course is also listed as PSYC 32, ANTH 32 and SOC 32. (C-ID: POLS 160) PREREQUISITE: PSYC 10 or ANTH 3 or POLS 1 or SOC 1A with a grade of "C" or better, and MATH 5 with a grade of "C" or better.

PSYCHOLOGY**PSYC 2 Early Child Development****Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU, UC; CSU-GE:D, E, IGETC:4I, GAV-GE:D2, E2

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:D, E, IGETC:4I, GAV-GE:D2, E2

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.

All courses listed here are part of Gavilan College's approved curriculum.
All courses are not offered every semester. Check the Class Schedule for current offerings.