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 accidents, 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, SC, 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, SC, 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, SC, 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, SC, GAV-GE:B1, B3
An introduction to the principles of physics using calculus. Topics include kinematics in one 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, SC, 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, Ampère’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, SC, 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

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, UC, 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

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.