PHSC 100L  Introduction to Physical Science Laboratory  (1)
3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in PHYS 101, or concurrent enrollment in PHYS 101
Transfer acceptability: CSU; UC – No credit for students with prior lab credit in ASTR, CHEM, GEOL or PHYS

The study of selected topics from the fields of astronomy, geology, physics, chemistry, and their related sciences through lab exercises. A general education course designed particularly for non-science majors. For teacher training see PHSC 101L.

PHSC 101  Principles of Physical Science  (3)
3 hours lecture
Transfer acceptability: CSU
The study of selected topics from the fields of physics and chemistry and their related sciences through lectures, films, and demonstrations. A general education course designed particularly for non-science majors. Especially recommended for teacher training.

PHSC 101L  Principles of Physical Science Laboratory  (1)
3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in PHYS 101, or concurrent enrollment in PHYS 101
Transfer acceptability: CSU
The study of selected topics from the fields of physics and chemistry and their related sciences through lab exercises. A general education course designed particularly for non-science majors; not open to majors in physics, chemistry, or engineering. Especially recommended for teacher training.

Physics (PHYS)
Contact the Physics and Engineering Department for further information.
(760) 744-1150, ext. 2505
Office: NS-355B

COURSE OFFERINGS

PHYS 101  Introduction to Physics  (4)
3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in MATH 50 or one year of high school Algebra
Note: Not open to students with prior credit in PHYS 100, 110, 115, 120, 125, 230, 231, and 232
Transfer acceptability: CSU; UC*
An introductory survey course in classical and modern physics. Not intended for science majors.

PHYS 102  Introduction to Physics (Lecture)  (3)
3 hours lecture
Prerequisite: A minimum grade of ‘C’ in MATH 50 or one year of high school Algebra
Note: Not open to students with prior credit in PHYS 101, 110, 115, 120, 125, 230, 231, and 232
Transfer acceptability: CSU; UC*
An introductory survey course in classical and modern physics. Not intended for science majors.

PHYS 120  General Physics  (4)
3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in MATH 110
Recommended preparation: MATH 115
Transfer acceptability: CSU; UC*
C-ID PHYS 105; C-ID PHYS 100S for PHYS 120 and 121 combined
The fundamental principles of classical mechanics, wave motion, sound, thermodynamics, and fluids.

PHYS 121  General Physics  (4)
3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in PHYS 120
Transfer acceptability: CSU; UC*
C-ID PHYS 110; C-ID PHYS 100S for PHYS 120 and 121 combined
A second semester continuation of PHYS 120. The fundamental principles of optics, electricity, magnetism, and modern physics.

PHYS 130  Preparation for Principles of Physics  (3)
3 hours lecture
Prerequisite: A minimum grade of ‘C’ in MATH 140, or concurrent enrollment in MATH 141
Transfer acceptability: CSU
Provides the applied mathematics and problem solving/presentation skills necessary for success in an introductory physics sequence for physics and engineering majors. Students will learn how to analytically solve physics problems and properly prepare laboratory reports. Reinforcement of math concepts will be emphasized throughout.

PHYS 197  Physics Topics  (5-5)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU; UC - Credit determined by UC upon review of course syllabus
Topics in Physics. See Class Schedule for specific topic offered. Course title will designate subject covered.

PHYS 200  Fundamentals of Physics  (5)
4 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in MATH 140, or concurrent enrollment in MATH 141
Note: PHYS 200-201 series not recommended for majors in engineering, computer science or physics; PHYS 230 series recommended for majors in engineering, computer science, or physics.
Transfer acceptability: CSU; UC*
A calculus-based course in classical mechanics, waves, sound, fluids and thermodynamics, with an emphasis on life science, pre-professional, and architectural fields.

PHYS 201  Fundamentals of Physics  (5)
4 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in PHYS 200; A minimum grade of ‘C’ in MATH 141, or concurrent enrollment in MATH 141
Note: PHYS 200-201 series not recommended for majors in engineering, computer science or physics; PHYS 230 series recommended for majors in engineering, computer science, or physics.
Transfer acceptability: CSU; UC*
A calculus-based course in classical electromagnetism, optics and atomic physics, with an emphasis on life science, pre-professional, and architectural fields.

PHYS 230  Principles of Physics  (5)
4 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in MATH 141, or concurrent enrollment in MATH 141
Recommended preparation: PHYS 130
Transfer acceptability: CSU; UC*
C-ID PHYS 205; PHYS 200S for PHYS 230, 231 and 232 combined
Classical mechanics, thermodynamics, and fluid dynamics. Required for students whose major field is physics, chemistry, or engineering. This is the first semester of a three semester sequence.

PHYS 231  Principles of Physics  (5)
4 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in PHYS 230; A minimum grade of ‘C’ in MATH 205, or concurrent enrollment in MATH 205
Transfer acceptability: CSU; UC*
C-ID PHYS 210; PHYS 200S for PHYS 230, 231 and 232 combined
Classical electromagnetism, electromagnetic waves, and optics. Required for students whose major field is physics, chemistry, or engineering. This is the second semester of a three semester sequence.
PHYS 232  Principles of Physics  
3 hours lecture - 3 hours laboratory  
Prerequisite: A minimum grade of ‘C’ in PHYS 231 or PHYS 201, and MATH 205  
Transfer acceptability: CSU; UC  
C-ID PHYS 215; PHYS 205S for PHYS 230, 231 and 232 combined  
Modern Physics. Required for students whose major field is physics, chemistry, or engineering. This is the third semester of a three-semester sequence.

PHYS 295  Directed Study in Physics  
3, 6, or 9 hours laboratory  
Prerequisite: Approval of project or research by department chairperson  
Transfer acceptability: CSU  
Designed for the student who has demonstrated a proficiency in physics subjects and the initiative to work independently on a particular sustained project which does not fit into the context of regularly scheduled classes.

POSC 110  Introduction to World Politics  
3 hours lecture  
Transfer acceptability: CSU; UC  
C-ID POLS 105 for POSC 101 and 102 combined  
A study of the development of American political institutions, the basic features of the Constitution, and major court interpretations that affect our lives today. Special attention will be given to the evolution of political rights and individual liberties, the electoral process and fundamental concepts of democracy, liberty, diversity, and equality.

POSC 110  Introduction to World Politics  
3 hours lecture  
Transfer acceptability: CSU; UC  
C-ID POLS 110 for POSC 101 and 102 combined  
A study of the development of American political institutions, the basic features of the Constitution, and major court interpretations that affect our lives today. Special attention will be given to the evolution of political rights and individual liberties, the electoral process and fundamental concepts of democracy, liberty, diversity, and equality.

POSC 120  California Government  
1 hour lecture  
Transfer acceptability: CSU  
Intended for students who have completed the American History and Institutions requirements for the A.A. Degree or CSU General Education, but have not met the California Constitution requirement. Organization and operation of California state and local government. Stress upon citizen participation in the decision making process.

POSC 121  Introduction to Law  
3 hours lecture  
Note: Cross listed as LS 121  
Transfer acceptability: CSU; UC - BUS 115, 116, 117, LS 121 combined: maximum credit, one course.  
An introduction to law and the legal system. Includes an examination of the federal and state court system, criminal law, civil law, administrative law, and procedural law.

POSC 197  Political Science Topics  
(.5 - 4)  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.  
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.  
Topics in Political Science. See Class Schedule for specific topic offered. Course title will designate subject covered.

POSC 295  Directed Study in Political Science  
3, 6, or 9 hours laboratory  
Prerequisite: Approval of project or research by department chairperson  
Transfer acceptability: CSU; UC  
Designed for advanced students who have demonstrated a proficiency in political science subjects and have the initiative to work independently on projects or research that does not fit into the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

PSY 295  Directed Study in Psychology  
3, 6, or 9 hours laboratory  
Prerequisite: Approval of project or research by department chairperson  
Transfer acceptability: CSU; UC  
Designed for the student who has demonstrated a proficiency in psychology subjects and the initiative to work independently on a particular sustained project which does not fit into the context of regularly scheduled classes.

Physiology  
See Zoology

Political Science (POSC)  
Contact the Economics, History and Political Sciences Department for further information.  
(760) 744-1150, ext. 2412  
Office: MD-375

COURSE OFFERINGS

POSC 100  Introduction to Political Science  
3 hours lecture  
Transfer acceptability: CSU; UC  
Introduction to the scope and methods of political science; basic political concepts and policies; comparative government institutions, stressing the United States; an overview of political theories, international politics, and political economy.

POSC 101  Introduction to Politics and American Political Institutions  
3 hours lecture  
Note: This course plus POSC 102 meets the State requirement in American History and Institutions.  
Transfer acceptability: CSU; UC  
C-ID POLS 110 for POSC 101 and 102 combined  
A study of the development of American political institutions, the basic features of the Constitution, and major court interpretations that affect our lives today. Special attention will be given to the evolution of political rights and individual liberties, the electoral process and fundamental concepts of democracy, liberty, diversity, and equality.

POSC 102  Introduction to United States and California Governments  
3 hours lecture  
Note: This course plus POSC 101 meets the State requirement in American History and Institutions.  
Transfer acceptability: CSU; UC  
C-ID POLS 110 for POSC 101 and 102 combined  
An examination of the US Constitution as it relates to the major institutions of government: the Congress, the Presidency, and the Supreme Court. It also emphasizes social, economic, and foreign policy so that students will have an understanding of the issues they face in the contemporary era. California history and government, another course component, will be compared and contrasted to the national political system.

POSC 110  Introduction to World Politics  
3 hours lecture  
Transfer acceptability: CSU; UC  
SOURCES AND USES OF POWER IN THE ARENA OF INTERNATIONAL POLITICS. CAUSES AND CONSEQUENCES OF 20TH CENTURY WARS. THE BALANCE OF POWER, HISTORY, GEOGRAPHY, MILITARY AND ECONOMIC POTENTIAL WILL BE EXAMINED TO SHOW THEIR IMPACT ON FOREIGN POLICIES OF THE UNITED STATES, EUROPE, RUSSIA, JAPAN, CHINA AND LESS-DEVELOPED STATES. USES OF MILITARY FORCE, ECONOMIC LEVERAGE, DIPLOMACY, LAW, ETC., DISCUSSED AS APPROACHES TO LIMIT WAR.

POSC 197  Political Science Topics  
(.5 - 4)  
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.  
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.  
Topics in Political Science. See Class Schedule for specific topic offered. Course title will designate subject covered.

POSC 295  Directed Study in Political Science  
3, 6, or 9 hours laboratory  
Prerequisite: Approval of project or research by department chairperson  
Transfer acceptability: CSU; UC  
Designed for advanced students who have demonstrated a proficiency in political science subjects and have the initiative to work independently on projects or research that does not fit into the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

Psychology (PSYC)  
Contact the Behavioral Sciences Department for further information.  
(760) 744-1150, ext. 2329  
Office: MD-241

Programs of Study

Alcohol and Other Drug Studies  
Provides the student with the academic training and hands on experience for entry-level employment in delivery of alcohol and other drug treatment services in agency settings and serves as a preparation for California state examinations as a certified addictions treatment counselor by CAADAC and as a certified alcoholism and drug abuse counselor by CAADAC.