

PE 229 Lifeguarding (1.5)

1½ hours lecture

Prerequisite: Ability to swim 500 yards continuously**Transfer acceptability:** CSU; UC

Follows American Red Cross curriculum lifeguard training and professional rescuer CPR. National certifications can be earned upon successful completion of two topic areas. An individual will have basic preparation for aquatic lifeguard job opportunities in California.

PE 230 Lifeguarding and Emergency Response (3)

3 hours lecture

Prerequisite: Ability to swim 500 yards continuously**Transfer acceptability:** CSU; UC

Follows American Red Cross curriculum lifeguard training, professional rescuer CPR and emergency response. National certifications can be earned upon successful completion of all three topic areas. Prepares an individual for aquatic lifeguard job opportunities in California.

PE 231 Water Safety Instruction (3)

3 hours lecture

Transfer acceptability: CSU; UC

American Red Cross Instructor candidate training and water safety instruction. Follows the National Red Cross instructor course, learning levels of basic swim instruction, aquatic activities, and emergency rescue. National certifications can be earned by students 17 years of age or older upon successful completion of topics. Prepares an individual for teaching job opportunities at an aquatic facility.

PE 232 Teaching Swimming (1,1.5)

2 or 3 hours lecture/laboratory

Transfer acceptability: CSU; UC

Techniques for teaching swimming. Practical experience teaching beginning and intermediate swimming classes under supervision of college instructor.

PE 295 Directed Study in Physical Education (1,2,3)

3, 6, or 9 hours laboratory

Prerequisite: Approval of project or research by department chairperson/director**Note:** May be taken 4 times**Transfer acceptability:** CSU

Independent study for students who have demonstrated skills and/or proficiencies in Physical Education subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

Physical Science (PHSC)

Contact the Physics and Engineering Department for further information.

(760) 744-1150, ext. 2505

Office: NS-355B

COURSE OFFERINGS**PHSC 100 Introduction to Physical Science (3)**

3 hours lecture

Transfer acceptability: CSU; UC – No credit for students with prior lecture 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 lectures, films, and demonstrations. A general education course designed particularly for non science majors. For teacher training see PHSC 101.

PHSC 100L Introduction to Physical Science Laboratory (1)

3 hours laboratory

Prerequisite: Completion of, or concurrent enrollment in, PHSC 100**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: Completion of, or concurrent enrollment in, PHSC 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

*UC credit limitations --

- No credit for PHYS 101 or 102 if taken after 120, 200, or 230
- PHYS 120 and 121 combined with 200, 201, 230, 231, 232: maximum credit, one series
- PHYS 200 and 230 combined: maximum credit, one course
- PHYS 201 and 231 combined: maximum credit, one course

PHYS 101 Introduction to Physics (4)

3 hours lecture-3 hours laboratory

Prerequisite: 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: 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: MATH 110**Recommended preparation:** MATH 115**Transfer acceptability:** CSU; UC*; CAN PHYS 2; PHYS 120+121= CAN PHYS SEQ A

The fundamental principles of classical mechanics, wave motion, sound, thermodynamics, and fluids.

PHYS 121 General Physics (4)

3 hours lecture-3 hours laboratory

Prerequisite: PHYS 120**Transfer acceptability:** CSU; UC*; CAN PHYS 4; PHYS 120+121= CAN PHYS SEQ A

A second semester continuation of PHYS 120. The fundamental principles of optics, electricity, magnetism, and modern physics.

PHYS 200 Fundamentals of Physics (5)

4 hours lecture-3 hours laboratory

Prerequisite: Completion of, or concurrent enrollment in, MATH 140**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: PHYS 200**Recommended preparation:** Completion of, 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: Completion of, or concurrent enrollment in, MATH 141**Recommended preparation:** PHYS 120**Transfer acceptability:** CSU; UC*; CAN PHYS 8; PHYS 230+231+ 232=CAN PHYS SEQ B

Classical mechanics, thermodynamics and fluid dynamics. Required for students whose major field is physics, chemistry, or engineering.

PHYS 231 Principles of Physics (5)

4 hours lecture-3 hours laboratory

Prerequisite: PHYS 230 and completion of, or concurrent enrollment in, MATH 205**Recommended preparation:** PHYS 121**Transfer acceptability:** CSU; UC*; CAN PHYS 12; PHYS 230+231+ 232=CAN PHYS SEQ B

Classical electromagnetism, electromagnetic waves, and optics. Required for students whose major field is physics, chemistry, or engineering.

PHYS 232 Principles of Physics (4)

3 hours lecture-3 hours laboratory

Prerequisite: PHYS 231 and MATH 205**Transfer acceptability:** CSU; UC*; PHYS 230+231+232=CAN PHYS SEQ B

Modern Physics. Required for students whose major field is physics, chemistry, or engineering.

PHYS 295 Directed Study in Physics (1,2,3)

3, 6, or 9 hours laboratory

Prerequisite: Approval of project or research by department chairperson**Note:** May be taken 4 times**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.

Physiology

See Zoology

Political Science (POSC)

Contact the Economics, History and Political Sciences Department for further information.

(760) 744-1150, ext. 2412

Office: P-17K

COURSE OFFERINGS**POSC 100 Introduction to Political Science (3)**

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)

3 hours lecture

Note: This course plus POSC 102 meets the State requirement in American History and Institutions.**Transfer acceptability:** CSU; UC

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 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)

3 hours lecture

Note: This course plus POSC 101 meets the State requirement in American History and Institutions.**Transfer acceptability:** CSU; UC

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)

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 120 California Government (1)

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 125 Contemporary World Problems (3)

3 hours lecture

Transfer acceptability: CSU; UC

Focus is on three issue-areas: war and group conflict; population growth and movement; and change and cultural values. Other current issues may also be examined.

POSC 130 Introduction to Public Administration (3)

3 hours lecture

Transfer acceptability: CSU; UC

A survey of the key issues in public administration, urban planning, public personnel administration, and public safety with an emphasis on governmental structure and the public decision making process as it pertains to the effectiveness of criminal justice policies, zoning, and land use considerations.

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, laboratory, or lecture/laboratory may be scheduled by the department. Refer to Class Schedule.

Note: May be taken 4 times

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 (1,2,3)

3, 6, or 9 hours laboratory

Prerequisite: Approval of project or research by department chairperson

Note: May be taken 4 times

Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.

Independent study 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: W-16

For transfer information, consult a Palomar College Counselor.

Associate in Arts Degrees -

AA Degree requirements are listed in Section 6 (green pages).

- Alcohol and Other Drug Studies
- Psychological and Social Services

Certificates of Achievement -

Certificate of Achievement requirements are listed in Section 6 (green pages).

- Alcohol and Other Drug Studies
- Psychological and Social Services

PROGRAM 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 CAADE and as a certified alcoholism and drug abuse counselor by CAADAC.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements	Units
PSYC 100 Introduction to Psychology	3
PSYC/SOC/ AODS 150 Introduction to Chemical Dependency	3
PSYC/SOC/ AODS 155 The Physiology and Pharmacology of Psychoactive Drugs	3
PSYC/SOC/ AODS 160 Prevention, Intervention, and Education	3
PSYC 225 Psychology of Abnormal Behavior	3
PSYC/SOC/ AODS 250 Group Leadership and Process	3
PSYC/SOC/ AODS 255 Treatment Modalities, Law and Ethics	3
PSYC/SOC/ AODS 260 Chemical Dependency Family Counseling	3
PSYC/SOC/ AODS 299 Directed Field Experience II	6

Group One (Select 3 units)

SOC 100 Introduction to Sociology	3
SOC 110 Social Problems	3

Group Two (Select 4-5 units)

PSYC/SOC/ AODS 140 Introduction to Psychological and Social Services	3
PSYC/SOC/ AODS 298 Directed Field Experience I	5

TOTAL UNITS 37 - 38

Alcohol and Other Drug Studies is also listed in Alcohol and Other Drug Studies and in Sociology.

Psychological and Social Services

Provides the student with the academic training and hands on experience for entry-level employment in human services and serves as preparation for upper division course work.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements	Units
COUN 100 Introduction to Basic Counseling Skills	3
PSYC 100 Introduction to Psychology	3
PSYC/SOC/ AODS 140 Intro to Psychological and Social Services	4
PSYC 225 Psychology of Abnormal Behavior	3
PSYC 235 Learning/Behavior Modification	3
PSYC/SOC/ AODS 298 Directed Field Experience I	5
SOC 100 Introduction to Sociology	3
SOC 110 Social Problems	3

Electives (Select 3 units)

PSYC/SOC 105 Marriage, Family and Intimate Relationships	3
PSYC 110 Developmental Psychology – Child/Adult	3
PSYC 115 Psychology of Personal Growth	3
PSYC/SOC 120 Social Psychology	3
PSYC/SOC 145 Psychology and Sociology of Aging	3
PSYC/SOC/ AODS 155 Physiology/Pharmacology of Psychoactive Drugs	3

TOTAL UNITS 30

Completion of additional psychology or sociology courses in alcohol/drug studies prepares students for eligibility to take California state examinations to become certified addictions treatment specialists by CAADE and certified alcoholism and drug abuse counselors by CAADAC.

Alcohol/Drug Courses Required for Eligibility for State Examinations

PSYC 100 Introduction to Psychology	3
PSYC 225 Psychology of Abnormal Behavior	3
SOC 100 Introduction Sociology	3
PSYC/SOC/ AODS 140 Intro to Psychological and Social Services	4
PSYC/SOC/ AODS 150 Intro to Chemical Dependency	3
PSYC/SOC/ AODS 155 Physiology/Pharmacology of Psychoactive Drugs	3
PSYC/SOC/ AODS 160 Prevention, Intervention, and Education	3
PSYC/SOC/ AODS 250 Group Leadership and Process	3
PSYC/SOC/ AODS 255 Treatment Modalities, Law and Ethics	3
PSYC/SOC/ AODS 260 Chemical Dependency Family Counseling	3
PSYC/SOC/ AODS 298 Directed Field Experience I	5
PSYC/SOC/ AODS 299 Directed Field Experience II	6