**PHYS 197  Physics Topics  (3-5)**
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 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:** 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 202  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 203  Principles of Physics  (5)**
4 hours lecture - 3 hours laboratory

**Prerequisite:** A minimum grade of ‘C’ in PHYS 202; 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 204  Principles of Physics  (4)**
3 hours lecture - 3 hours laboratory

**Prerequisite:** A minimum grade of ‘C’ in PHYS 203 or PHYS 201, and MATH 205

**Transfer acceptability:** CSU; UC

C-ID PHYS 215; PHYS 200S 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  (1, 2, 3)**
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.

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**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

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**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

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 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

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)**
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 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  
(1, 2, 3)  
3, 6, or 9 hours laboratory  
Prerequisite: Approval of project or research by department chairperson  
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: MD-241  
For transfer information, consult a Palomar College Counselor.

Associate in Science Degrees -  
AS Degree requirements are listed in Section 6 (green pages).  
* Alcohol and Other Drug Studies

Associate in Arts Degrees -  
AA Degree requirements are listed in Section 6 (green pages).  
* Psychological and Social Services

Associate in Arts for Transfer -  
AA-T, IGETC, and CSUGE requirements are listed in Section 6 (green pages).  
* Psychology

Certificates of Achievement -  
Certificate of Achievement requirements are listed in Section 6 (green pages).  
* Alcohol and Other Drug Studies  
* Psychological and Social Services

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 CAADAE and as a certified alcoholism and drug abuse counselor by CAADAC.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT  
Program Requirements  
Units

PSYC 100  Introduction to Psychology  
3
PSYC/SOC/ AODS 150  Introduction to Alcohol and Other Drug Studies  
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  Case Management, Law and Ethics  
3

TOTAL UNITS 30

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 120  Social Psychology  
3
PSYC/SOC/ AODS 145  Psychology and Sociology of Aging  
3
PSYC/SOC/ AODS 155  Physiology/Pharmacology of Psychoactive Drugs  
3

TOTAL UNITS 30

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

Psychological and Social Services