

PHYS 232 Principles of Physics (4)
 3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in PHYS 231 and MATH 205
Transfer acceptability: CSU; UC*
 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: MD-375

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 and/or 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: MD-241
 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

PROGRAMS OF STUDY

At the time of publication of this catalog, Palomar College was awaiting approval by the California Community Colleges Chancellor's Office for a proposed Psychology Associate in Arts for Transfer Degree. Should approval be granted, updated information will be announced on the Palomar College catalog addendum at <http://www.palomar.edu/catalog/2011>

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 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	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	4
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.

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

COURSE OFFERINGS

PSYC 100 Introduction to Psychology (3)

3 hours lecture

Transfer acceptability: CSU; UC

A general introduction to the principles of human and animal behavior. Topics covered include history of psychology, research thinking, intelligence, lifespan development, gender and human sexuality, motivation and emotion, health psychology, personality, psychological disorders, therapy, social psychology, and other related topics (e.g., industrial/organizational psychology, sports psychology, environmental psychology, forensic psychology). Emphasis is placed upon the relationship between general principles of psychology and their practical applications.

PSYC 105 Marriage, Family, and Intimate Relationships (3)

3 hours lecture

Note: Cross listed as SOC 105

Transfer acceptability: CSU, UC

A study of the psychology and sociology of the family and intimate relationships. Emphasizes factors that enhance interpersonal relationships. Topics include love, marital choice, communication, conflict, and changing models of the family. Examines cross-cultural and historical factors that impact the family as a social institution and the impact of gender, race and ethnicity, social class, age, and sexual orientation on family organization.

PSYC 110 Developmental Psychology – Child Through Adult (3)

3 hours lecture

Transfer acceptability: CSU; UC

A chronological study of human growth and development throughout the lifespan. Heredity and environmental determinants of behavior and developmental research methods are emphasized. The importance of social experience in the family, school, peer groups, and society are examined.

PSYC 115 The Psychology of Personal Growth and Development (3)

3 hours lecture

Transfer acceptability: CSU

Emphasis on self understanding through the study of the individual and relationships which contribute to unique personal development; application of the fundamental concepts of psychology which aid in examining one's own personal environment and the interaction with that environment.

PSYC 120 Social Psychology (3)

3 hours lecture

Note: Cross listed as SOC 120

Transfer acceptability: CSU; UC

Explores relationships between the behavior of individuals and the structure of society. Emphasizes the importance of language, roles, and the concepts of the self in the socialization process.

PSYC 125 Human Sexuality (3)

3 hours lecture

Note: Cross listed as SOC 125

Transfer acceptability: CSU; UC

Survey of topics pertinent to an understanding of the development of human sexuality. Emphasis on biological, psychological, and cultural determinants of sexual behavior. Current sex norms and various aspects of interpersonal and individual sexual adjustment.

PSYC 130 Psychology of Women (3)

3 hours lecture

Transfer acceptability: CSU; UC

A psychological exploration of the ways that race, ethnicity, class, sexual orientation, and age modify women's experience. To be included are such areas as communication, mental health, sex-role socialization, body image, family, and sexuality issues. Course content will be relevant to both females and males.

PSYC 140 Introduction to Psychological and Social Services (4)

3 hours lecture - 3 hours laboratory

Note: Cross listed as SOC 140/AODS 140**Transfer acceptability:** CSU

Supervised internship in a human service agency or an alcohol and other drug treatment facility. An overview of the field of human services, including alcohol and other drug treatment. The roles of psychologists, sociologists, social workers, family therapists, social service assistants and addiction counselors are compared and contrasted, and the issues they deal with are described. Through cooperative efforts of provider agencies, the instructor, and the student, the skills utilized for entry-level employment are observed, practiced, and evaluated under supervision.

PSYC 145 Psychology and Sociology of Aging (3)

3 hours lecture

Note: Cross listed as SOC 145**Transfer acceptability:** CSU

A multi disciplinary approach to the field of gerontology; historical, demographic, psychological, and sociological aspects of aging.

PSYC 150 Introduction to Alcohol and Other Drug Studies (3)

3 hours lecture

Note: Cross listed as SOC 150/AODS 150**Transfer acceptability:** CSU

Examines alcohol, tobacco and psychoactive drugs in society. Biological, psychological and socio-cultural factors of drug abuse and dependence will be explored. The impact of addiction on families and society; contemporary treatment techniques, and the addiction counseling profession will be covered.

PSYC 155 The Physiology and Pharmacology of Psychoactive Drugs (3)

3 hours lecture

Note: Cross listed as SOC 155/AODS 155**Transfer acceptability:** CSU

This course will examine how psychoactive drugs affect the nervous system. Ways of classifying drugs will be identified including the processes of physical and psychological dependence, tolerance, withdrawal, and genetic predispositions. Temporary and long-term affective, behavioral, cognitive, biological, and social consequences of psychoactive drug use will be explored, including disorders such as Korsakoff's syndrome and other nutritional deficiencies.

PSYC 160 Prevention, Intervention, and Education (3)

3 hours lecture

Note: Cross listed as SOC 160/AODS 160**Transfer acceptability:** CSU

This course will review historical and contemporary approaches for chemical dependency, including prevention, intervention, and education. It will analyze the progression of substance abuse and chemical dependency disorders and will evaluate types of prevention, education, and intervention strategies.

PSYC 197 Special Topics in Contemporary Psychology (1, 1.5, 2, 3)

1, 1½, 2, or 3 hours lecture

Note: May be taken 2 times**Transfer acceptability:** CSU; UC – Credit determined by UC upon review of course syllabus.

Current topics of special interest to psychology students will be debated and discussed in a seminar format. Issues in such areas as social psychology, perception and learning, personality, and others will be analyzed from theoretical and methodological perspectives. Content will change from semester to semester.

PSYC 205 Statistics for the Behavioral Sciences (3)

3 hours lecture

Prerequisite: A minimum grade of 'C' in MATH 56 or 60 or eligibility determined through the math placement process**Note:** Cross listed as SOC 205**Transfer acceptability:** CSU; UC - PSYC/SOC 205, MATH 120, and BIOL 215 combined: maximum credit, one course

Quantitative methods as applied to behavioral science data. Frequency distributions, measure of central tendency, variability, theory of error, measures of significance, correlation, regression, and an introduction to analysis of variance. Also included is an introduction to the use of computers in statistics.

PSYC 205L Data Analysis in Psychology and Sociology (1)

3 hours laboratory

Corequisite: PSYC/SOC 205**Note:** Cross listed as SOC 205L**Transfer acceptability:** CSU; UC

Use of the computer as a tool for calculating statistics and exploring data in Psychology and Sociology.

PSYC 210 Physiological Psychology (4)

3 hours lecture - 3 hours laboratory

Prerequisite: A minimum grade of 'C' in PSYC 100**Transfer acceptability:** CSU; UC

An examination of the biological basis of behavior. Topics to be covered include neuroanatomy, neurophysiology, psychoactive drug use and addiction, endocrinology, encephalic evolution, learning and memory, sexual behavior, sleep processes and neuropsychological disorders. Laboratory includes neuroanatomical dissection.

PSYC 225 Psychology of Abnormal Behavior (3)

3 hours lecture

Prerequisite: A minimum grade of 'C' in PSYC 100**Transfer acceptability:** CSU; UC

Identification and description of the various types of psychological abnormalities, deficiencies, and disorders which may interfere with a human individual's ability to cope with the demands of the surroundings. All of the major psychiatric categories will be covered as well as the types of personality problems which lead to domestic, social, and economic inadequacies, and in some instances, to difficulties with the law.

PSYC 230 Research Methods in Psychology (4)

3 hours lecture - 3 hours laboratory

Prerequisite: A minimum grade of 'C' in PSYC 100, PSYC/SOC 205, ENG 100**Transfer acceptability:** CSU; UC

Introduction to psychological research methods with emphasis on the use of the scientific method in psychological research. The laboratory is designed to complement the lectures and allow each student to design and conduct psychological research.

PSYC 235 Principles of Learning and Behavior Modification (3)

3 hours lecture

Transfer acceptability: CSU; UC

The basic principles and research in classical conditioning, operant conditioning, cognitive learning processes, the impact of biochemical processes on learning, and application of behavior modification techniques for changing behavior.

PSYC 250 Group Leadership and Process (3)

3 hours lecture

Note: Cross listed as AODS 250/SOC 250**Transfer acceptability:** CSU

An introduction to the dynamics of group interaction, with emphasis upon the individual's firsthand experience as the group studies itself under supervision. Problems of communication, effective emotional responses, and personal growth will be highlighted. The emphasis will be upon group process as a means of changing behavior.

PSYC 255 Treatment Modalities, Law and Ethics (3)

3 hours lecture

Note: Cross listed as AODS 255/SOC 255**Transfer acceptability:** CSU

This course reviews the principles and practices of addiction treatment including screening, intake, orientation, assessment, treatment planning, counseling, case management, crisis intervention, education of clients and their families, referral, report and record keeping, and consultation. Legal and ethical standards of practice for addictions counselors will be reviewed and included in this body of knowledge, skills, and attitudes.

PSYC 260 Chemical Dependency Family Counseling (3)

3 hours lecture

Note: Cross listed as AODS 260/SOC 260

Transfer acceptability: CSU

This course is designed to explore methods of assisting family members and others to understand and to cope with the alcohol and drug abuse of alcoholics and addicts. Several family therapy modalities will be explored. The approach will be experiential in format and students will participate in exercises that lead to the development of these skills.

PSYC 296 Special Problems in Psychology (1, 2, 3)
1, 2, or 3 hours lecture

Note: May be taken 4 times

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

An individualized or group project in psychology of any nature approved by, and under the personal supervision of, the instructor.

PSYC 298 Directed Field Experience I (5)
3 hours lecture - 6 hours laboratory

Note: Cross listed as AODS 298/SOC 298

Transfer acceptability: CSU

Supervised internship in a human service agency or an alcohol and other drug treatment facility. The student intern will have an opportunity to observe human service providers working with clients in agency settings. Ethical guidelines for helping professions, developing cultural competence, stages of change and motivational interviewing as a helping style are discussed. Interns practice interviewing skills for increasing motivation for positive change.

PSYC 299 Directed Field Experience II (6)
3 hours lecture - 9 hours laboratory

Prerequisite: A minimum grade of 'C' in AODS 140/SOC 140/PSYC 140 or AODS 298/SOC 298/PSYC 298

Note: Cross listed as AODS 299/SOC 299

Transfer acceptability: CSU

Supervised internship in an alcohol and other drug treatment facility. This course emphasizes advanced concepts in chemical dependency. Students refine their skills for the 12 core functions of effective clinical practice and compile a professional portfolio in preparation for the state certifying written exam. This course meets the 45-hour supervised practicum requirement for the California Certification Board of Alcohol and Drug Counselors.

Public Administration (PA)

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

(760) 744-1150, ext. 2412

Office: MD-375

Associate in Arts Degrees -

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

- Public Administration

Certificates of Achievement -

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

- Public Administration

PROGRAM OF STUDY**Public Administration**

This certificate program is designed for transfer into San Diego State University's program leading to a degree in Public Administration.

Assists in improving skills to take management positions and/or meet professional growth requirements in local government. Transfer students should consult the four year college or university catalog for specific requirements or see a Palomar College counselor.

In order to earn a certificate, students must achieve a minimum grade of 'C' in each of the certificate program courses.

**A.A. DEGREE MAJOR OR
CERTIFICATE OF ACHIEVEMENT**

Program Requirements		Units
ACCT 103	Financial Accounting	4
BUS 205	Business Writing	3
ECON 102	Principles of Economics (Micro)	3
MATH 120	Elementary Statistics	3
POSC 101	Intro to Politics/American Political Institutions	3
POSC 102	Intro to United States/California Governments	3
POSC 130	Introduction to Public Administration	3
TOTAL UNITS		22

Public Works Management (PWM)

Contact Occupational & Noncredit Programs for further information.

(760) 744-1150, ext. 2284

Office: AA-136

Associate in Arts Degrees -

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

- Public Works Management - Level II

Certificates of Achievement -

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

- Public Works Management - Level I
- Public Works Management - Level II

PROGRAM OF STUDY**Public Works Management - Level I**

Specifically designed for individuals employed by or seeking employment in public works organizations in San Diego County. Provides an overview for field personnel of the basic elements of the Public Works Industry and introduces students to administrative responsibilities and planning. This certification level prepares field personnel for "Lead Worker" positions. This is a cooperative program offered by Citrus, Palomar and Santiago Canyon Colleges in collaboration with and approved by the Maintenance Superintendents Association and American Public Works Association.

CERTIFICATE OF ACHIEVEMENT

Program Requirements		Units
PWM 50	Introduction to Public Works	3
PWM 51	Street Construction and Maintenance	3
PWM 52	Asphalt and Portland Cement	3
PWM 53	Public Works Inspection	3
MATH 50	Beginning Algebra	4
Electives (Select 3 units)		
PWM 56	Parks and Landscape Management	3
BMGT 101	Introduction to Management	3
BUS 125	Business English	3
BUS 138	Business Ethics	2
BUS 187	Project for Business	1
SPCH 115	Interpersonal Communication	3
TOTAL UNITS		19

Public Works Management - Level II

Specifically designed for individuals employed by or seeking employment in public works organizations in San Diego County. Introduces management and administrative concepts to field staff. Classes are designed to prepare Lead Workers for front line supervisory positions in the Public Works field. This is a cooperative program offered by Citrus, Palomar and Santiago Canyon Colleges in collaboration with and approved by the Maintenance Superintendents Association and American Public Works Association.