

PHYS 232 Principles of Physics (4)
 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 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.

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
 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 121 Introduction to Law (3)
 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 (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

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 CAADE 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
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 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

Psychology

Psychology is a discipline that uses the scientific method to study animal and human behavior. This Associate in Arts in Psychology for Transfer degree offers students the opportunity to meet lower division transfer requirements for a major in Psychology, leading to a Bachelor of Arts or Bachelor of Science in Psychology at a California State University (CSU). Students who earn this degree will receive priority admissions at a CSU. The Associate in Arts in Psychology for Transfer degree is the first step in preparing students for professions and areas of interest related to psychology such as Clinical Psychology, Counseling, Medicine, Law, Management, Business, Social Work, and Teaching.

ASSOCIATE IN ARTS FOR TRANSFER MAJOR

Pursuant to SBI 440, the following completion requirements must be met:

“(1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:

(A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education - Breadth Requirements.

(B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

(2) Obtainment of a minimum grade point average of 2.0.”

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is not an acceptable grade for courses in the major.

Program Requirements

PSYC 100	Introduction to Psychology	3
PSYC 205/ SOC 205	Statistics for the Behavioral Sciences	4
PSYC 230	Research Methods in Psychology	4

List A (Select 1 course)

BIOL 100	General Biology	4
BIOL 105	Biology with a Human Emphasis	4
PSYC 210	Physiological Psychology	4

List B (Select 1 course)

PSYC 110	Developmental Psychology - Child Through Adult	3
PSYC 120	Social Psychology	3
PSYC 225	Psychology of Abnormal Behavior	3
PSYC 235	Principles of Learning and Behavior Modification	3

List C (Select 1 course)

PSYC 105/ SOC 105	Marriage, Family and Intimate Relationships	3
PSYC 115	The Psychology of Personal Growth and Development	3
PSYC 125/ SOC 125	Human Sexuality	3
PSYC 130	Psychology of Women	3

TOTAL UNITS **21**

COURSE OFFERINGS

PSYC 100 Introduction to Psychology (3)
3 hours lecture
Transfer acceptability: CSU; UC
C-ID PSY 110

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

C-ID SOCI 130

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

C-ID PSY 180

Provides an overview, from a psychological perspective, of human growth and development throughout the lifespan, from conception to death. Biological and environmental influences on development, developmental theories and research of physical, cognitive, personality, and social development, as well as attention to developmental problems are examined.

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

3 hours lecture

Transfer acceptability: CSU

C-ID PSY 115

This course is designed with an applied focus for students interested in how psychology is useful in everyday life and how scientists, clinicians, and practitioners study and apply psychology. The course surveys different theories and psychological perspectives and how these may be applied across a person's life. The influence of factors such as culture, gender, ethnicity, historical cohort, and socio-economic status are examined. Emphasis on self understanding and application through the study of the individual, environment and social relationships which contribute to unique personal development.

PSYC 120 Social Psychology (3)

3 hours lecture

Transfer acceptability: CSU; UC

C-ID PSY 170

Considers individual human behavior in relation to the social environment. The power of the situation, other individuals, and the social group will be examined. Emphasized topics include: aggression, prejudice and stereotypes, interpersonal attraction, attitudes and attitude change, conformity, group phenomena, gender roles, cultural norms, person perception, and social cognition.

PSYC 125 Human Sexuality (3)

3 hours lecture

Note: Cross listed as SOC 125**Transfer acceptability:** CSU; UC

C-ID PSY 130

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

Psychological research and theories to examine the development and impact of gender identity. Explores the ways race, ethnicity, class, sexual orientation, and age modify women's experience. Areas covered include communication, mental and emotional adjustment, sex-role socialization, body image, family, work, and intimacy. Content will be relevant to both women and men.

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

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 (4)

4 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 and MATH 120 combined: maximum credit, one course
C-ID SOCI 125

Quantitative and qualitative methods as applied to behavioral science data. Frequency distributions, measures of central tendency, variability, hypothesis testing, measures of probability and significance, correlation, regression, and inferential statistics. Also included are data entry, graphing, statistical analysis, and interpretation of data using word processing, spreadsheet, and statistical software.

PSYC 210 Physiological Psychology (4)

3 hours lecture - 3 hours laboratory

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

C-ID PSY 150

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

C-ID PSY 120

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

C-ID PSY 205B

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 Case Management, Law and Ethics (3)

3 hours lecture

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

This course reviews the principles and practice of case management in addiction treatment including the processes of intake, screening, assessment, treatment planning, referral, and documentation. Professional and ethical codes of conduct and behavior are also reviewed and emphasized.

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

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 Works Management (PWM)

Contact Occupational & Noncredit Programs for further information.

(760) 744-1150, ext. 2284

Office: AA-135

Associate in Science Degrees -

AS 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