

Courses

ACCOUNTING

(ACCTG)

ACCTG 001 Introductory Accounting I (5) UC/CSU

This course emphasizes basic accounting theory and practices which include an analysis of records of original entry and their relationship to the general ledger, controlling accounts and their subsidiary ledgers, the voucher system, periodic adjustments, worksheets, financial statements, and closing the ledger.

ACCTG 002 Introductory Accounting II (5) UC/CSU

Prerequisite: ACCTG 001 or ACCTG 022 with a grade of "C" or better, or equivalent.

Accounting principles and procedures relating to partnerships and corporations, accounting for manufacturing, cost accounting, branch and departmental accounting, interpretation of financial statements, supplementary statements, data processing and management controls are covered.

ACCTG 015 Tax Accounting I (3) CSU

Prerequisite: ACCGT 001 or equivalent.

In this course, tax laws, accounting procedures, and preparation of returns required for Federal and California State individual income taxes are covered.

ACCTG 016 Tax Accounting II (3) CSU

Prerequisite: ACCTG 015.

This course deals with tax laws, accounting procedures and preparation of state and federal tax returns required for partnerships, corporations, estates and trusts. Federal and state tax returns for inheritance and gift taxes will also be considered, along with a review of individual tax returns to update students on new tax laws and forms.

ACCTG 017 Payroll Accounting (2) CSU

Students learn the procedures and practices involved in a firm's payroll system, including familiarizing students with current laws regarding computation of regular and overtime pay, withholding of payroll taxes, computation of employer's payroll taxes, and the preparation of payroll tax returns and reports.

ACCTG 025 Automated Accounting Methods and Procedures (3) CSU

Prerequisite: Completion of one semester of Accounting Principles (or equivalent), through and including material on payroll accounting, with a grade of "C" or better.

Using the computer, this introduction to accounting will provide information and practice in the basic machine operations, plus instruction in the following areas: general ledger, depreciation, accounts receivable, accounts payable, and payroll. Real-world applications will be stressed throughout the course.

ADDICTION STUDIES

(ADDICST)

ADDICTST 001 Understanding Addiction and Counseling (3) CSU

This survey course includes the nature of addiction, history and theories of treatment, dual diagnosis, recovery, and rehabilitation. The knowledge, skills, and attitudes required in professional practice as a competent, educated, trained addiction counselor are also covered. This course is the introductory course for addiction counseling programs.

ADDICST 002 Physiology and Pharmacology of Psychoactive Drugs (3)

This course offers comprehensive instruction on the pharmacological and behavioral effects of all major categories of both legal and illegal psychoactive substances, including a detailed review of the nervous system. Pharmacological and physiological implications of tolerance, habituation, and excessive consumption of psychoactive substances are explored as well as cultural and social implications of substance use. *This course was formerly Psychology 68.*

ADDICTST 004 Clinical Counseling Laws and Ethics (3)

Students are trained in the application of legal and ethical issues that impact the profession of addiction treatment. This course also emphasizes the assessment of co-occurring disorders as they apply to the scope of competence for addiction treatment counselors.

ADDICTST 005 GROUP SKILLS FOR ADDICTION COUNSELORS (3)

This course trains students in the skills and principles fundamental to facilitating a group, including group process, establishing goals, curative factors, starting a counseling group, observing a group, and making interventions, with special emphasis upon addiction-specific issues in a group setting. *This course was formerly Psychology 43.*

ADDICTST 007 Addiction Treatment and Recovery (3) CSU

Students examine intervention, treatment, and recovery, including assessment, case management, treatment orientation, treatment planning, relapse prevention, and after care planning.

ADDICTST 010 Addiction and the Family (3) CSU

Students analyze addiction as a family disease focusing on many theoretical and practical issues including: assessment, treatment, recovery, interventions, family counseling and addictions' impact on children and the family system.

Course Descriptions

ADDICTST 016 Continuing Recovery: Strategies and Basic Skills (3) CSU

Students examine applied methodology and counseling skills with respect to chemical dependency and other addictive disorders. Students may engage in role play, case studies, interventions, demonstrations, 12-step model of recovery, reality therapy, rational emotive behavioral therapy, family systems analysis, and relapse prevention theory and techniques.

ADDICTST 084 Field Work Practicum (3) CSU

Prerequisites: ADDICTST 001, 004, 016, and 043

This is a supervised practicum course. Participants must be knowledgeable about addiction and treatment. The course provides observation, interaction, and counseling opportunities with clients and counselors at rehabilitation clinics. This course satisfies half of the fieldwork hours (125) required by CAADE in addition to the classroom hours.

ADDICTST 085 Advanced Field Work Practicum (3) CSU

Prerequisites: ADDICTST 001, 004, 016, and 043

This is a supervised practicum course that includes an advanced internship at an addiction treatment and recovery facility to acquire 125 of the 250 hours required by the California Association of Alcohol and Drug Educators (CAADE). Internship hours must be completed during the semester of enrollment.

ADMINISTRATION OF JUSTICE

(ADM JUS)

ADM JUS 001 Introduction to Administration of Justice (3) UC/CSU

This course examines the characteristics of the philosophy, history, theories of the criminal justice system. This course focuses on examining crime measurement, theoretical explanation of crime, responses to crime components of the criminal justice system and the current challenges. It examines cross-cultural roles, functions, and interrelationships among criminal justice agencies context and emphasis is placed on the structure, function of the United States police, courts, corrections and the social impact on crime. A research paper in APA or ASA format is required.

ADM JUS 002 Concepts of Criminal Law (3) UC/CSU

This course deals with the structure of law, definitions, and the most frequently used sections of the California Penal Code. Topics include origins of federal and state laws, interpretation and application of laws, identifying elements of property crimes and criminal liability.

ADM JUS 003 Legal Aspects of Evidence (3) CSU

This course includes the kinds and degrees of evidence and the rules governing the admissibility of evidence in court.

ADM JUS 004 Principles and Procedures of the Justice System (3) UC/CSU

This course will provide an in-depth study of the law enforcement procedures from an incident or happening, through investigation, detention, arrest, prosecution, trial, and final disposition. The rules of criminal procedure, arrest, search and seizure will be examined.

ADM JUS 005 Criminal Investigation (3) CSU

This course covers the fundamentals of investigation; crime scene search and recording, collection and presentation of physical evidence; scientific aids; modus operandi; sources of information; interviews and interrogation; follow up, and case preparation.

ADM JUS 006 Patrol Procedures (3) CSU

Prerequisite: ADM JUS 001.

This course is a study of the responsibility, techniques and methods of police patrol. Topics include patrol distribution, selective enforcement, pullover and approach methods, emergency pursuit driving, search of suspects and buildings, field interrogations, procedures in the handling of calls for police service and special police problems.

ADM JUS 008 Juvenile Procedures (3) CSU

This course is a study of the organization, functions and jurisdiction of juvenile agencies; the processing and detention of juveniles; juvenile case disposition; juvenile statutes, and court procedures.

ADM JUS 014 Report Writing for Peace Officers (3) CSU

This course includes the study of and practice in preparing various types of reports required by the criminal justice system, review of basic writing skills, technical and legal terminology, and the requirements for preparation of legally admissible documents.

ADM JUS 015 Police Supervision (3) CSU

Prerequisite: Employment in law enforcement.

This course is specifically designed to prepare law enforcement officers for the duties and responsibilities of a police supervisor. The course is primarily concerned with supervisory functions, employee evaluations, discipline, human relations, field operations and understanding police resources. This is an excellent class for employees preparing for promotion.

ADM JUS 016 Recruitment Selection Process (3) CSU

This course provides an in-depth coverage of the legal selection for employment with an agency in the criminal justice system. Topics will include a review of the minimum qualifications for employment as a peace officer as determined by the Commission on Peace Officer Standards & Training (POST) and/or Standards and Training for Corrections (STC). Specific topics will include the application, written exam, oral interview, background investigation, psychology exam, medical exam, polygraph exam, and agility qualification. Employment opportunities will be presented, and ways to assist the student will be explained. *Note: When course is offered on-line, instructor may require three class meetings on campus.*

Course Descriptions

ADM JUS 039 Probation and Parole (3) CSU

This course provides students with the history and development of probation and parole. Special emphasis will be placed on the relationships between the police, courts and corrections.

ADM JUS 042 Advanced Criminal Law (3) UC/CSU

An in-depth study of the substantive law commonly encountered by the municipal, county, or state police officer or investigator or other criminal justice employee. The scope of the course includes misdemeanor and felony violations of the criminal statutes.

ADM JUS 060 Arrest, Search and Seizure (3) CSU

This course covers information regarding powers of arrest, search and seizure for peace officers with limited police powers. The main topics for this course are laws of arrest, arrest and control methods, and communication.

This course meets the curriculum requirements for the Commission on Peace Officer Standards and Training (POST), P.C. 832 Laws of Arrest, and Board of Corrections, Standards and Training for Corrections (STC) when certified.

ADM JUS 062 Fingerprint Classification (3) CSU

This is a practical course which covers the technical terminology of fingerprinting, pattern interpretation and classification of fingerprinting, searching and filing procedures. Time will also be devoted to laboratory work in the classroom. A skills award will be awarded on successful completion of this course.

ADM JUS 067 Community Relations I (3) UC/CSU

This course offers an in-depth exploration of the roles of Administration of Justice practitioners and their agencies. Through interaction and study, students become aware of the interrelationships and role expectations among the various agencies and the public. Primary emphasis is placed upon the professional image of the Justice Administration system, and the development of positive relationships between members of the system and the public.

ADM JUS 075 Introduction to Corrections (3) CSU

This basic course deals with the nature of correctional work; the aims and objectives of Correctional Administration; probation and practices; skills, knowledge and attitudes required for employment in this field; types of institutions and services; and career opportunities.

ADM JUS 160 Police Organization and Administration (3) CSU

The effect of the organizational structure and administrative procedures on the implementation of police functions, assessment of the recruitment and hiring process, career advancement and leadership, and administrative problems of staffing and morale as a law enforcement employer are examined.

ADM JUS 261 Probation Officer Core Course (9.75) CSU

Prerequisite: ADM JUS 102.

This is a basic training course for entry-level probation officers. Subject areas include the criminal justice system, roles and responsibilities of the officer, classification and housing, casework, visitation, report writing, handling disputes, tactics and procedures. May be certified by Board of Corrections, Standards and Training for Corrections (STC).

ADM JUS 285 Directed Study - Administration of Justice (2) CSU

This course provides the opportunity for individual students to complete special projects for credit in Administration of Justice under the supervision of a faculty member.

ADM JUS 306 Correctional Report Writing (3) CSU

This is an introductory course dealing with all aspects of public safety communication. It will cover the techniques of effectively communicating facts, information, and ideas in a clear and logical manner for a variety of public safety systems reports, i.e., crime/violation/incident reports, letters, memoranda, directives, and administrative reports. Students will gain practical experience in interviewing, note taking, report writing and testifying.

ADM JUS 307 Street Gangs/Prison Gangs (3) CSU

This course will provide an introduction to the history and sociology of a gang. Topics will include a discussion on the problems law enforcement and the community have with gangs, the organization and structure of a street gang, recruitment into a gang, gang attire, hand signs, tattoos, body language, graffiti, and the unwritten rules of gangs and their effect on society. The organizational structure of a prison gang and the relationship with organized crime are also covered.

ADM JUS 308 Control and Supervision in Corrections (3) CSU

This course offers an overview of the methods, practices, and theories related to the custodial supervision of incarcerated persons in federal, state, and local correctional facilities. The course will introduce and discuss issues of custodial control on a continuum from day to day institutional living through crisis situations. The course will analyze interaction between the offender and the correctional employee. Topics will include the effects of violence, overcrowding, gangs, substance abuse, legislation and other factors that impact the offender, employee and facility. Skills related to effective communication and crisis intervention will also be discussed.

ADM JUS 309 Correctional Interviewing and Counseling (3) CSU

This course provides an overview of the techniques in counseling and interviewing available to practitioners in corrections. Students will learn the use of appropriate techniques and theories in confidence building which may be used by correctional employees in interviews and counseling. This is a basic course for students planning to enter, or already employed within the Correctional Science field.

Course Descriptions

ADM JUS 321 P.C. 832 Arrest Course (2)

This course covers information regarding powers of arrest, search and seizure for peace officers with limited powers. When certified, this course satisfies the curriculum requirements for Peace Officer Standards and Training (POST) P.C. 832 Arrest Course and by the Board of Corrections, Standards and Training for Corrections (STC).

ADM JUS 385 Directed Study – Administration of Justice (3) CSU

This course allows students to pursue directed study in Administration of Justice on a contract basis under the direction of a supervising instructor.

AFRICAN-AMERICAN STUDIES

(AFRO AM)

AFRO AM 004 The African-American in the History of the United States I (3) UC/CSU

(Same as HISTORY 041)

African-American Studies 4 is a survey of United States history from the early Colonial era to the Reconstruction Period, with special emphasis on the contribution of the African-American to the political, economic and social development of the nation. This course also surveys the U.S. Constitution and California State and local government. UC Transfer Credit Limit: A maximum of one course from African American Studies 4; History 11, 41, 43.

AFRO AM 005 The African American in the History of the United States II (3) UC/CSU

(Same as HISTORY 042)

This course provides a survey of United States history from the end of the Civil War to the present, with emphasis on the contributions of African-Americans to the social, cultural, political, and economic development of the United States. Also included is a continued survey of the United States Constitution.

UC Transfer Credit Limit: A maximum of one course from African American Studies 5; History 12, 13, 42, 44.

ALLIED HEALTH

(ALD HTH)

ALD HTH 021 Basic Life Support for the Healthcare Provider* (.5) CSU (P/NP)

This course covers infant, child and both one-rescuer and two-rescuer adult CPR. Treatment of the choking patient and heart disease prevention are also included.

ALD HTH 022 Advanced Cardiovascular Life Support (1) CSU (P/NP)

Prerequisites: ALD HTH 021, and must be a licensed health care provider.

This course provides information for advanced cardiovascular life support. Lecture topics include acute cardiac care, pathophysiology, treatment modalities, and pharmacology.

ALD HTH 023 Pediatric Advanced Life Support (1) CSU (P/NP)

Prerequisites: ALD HTH 021, and must be a licensed health care provider.

This course provides information for Pediatric Advanced Life Support. Lecture topics include interactive teaching stations related pediatric life support.

ALD HTH 025 Qualified Autism Service Paraprofessional (3)

Prerequisite: Students must be at least 18 years of age and have a high school diploma or equivalent to register for the course. Additionally as students and QAS paraprofessionals train and work directly with children, prior to training in this field, students are required to complete a standardized background check and have a current Basic Life Support CPR completion card. Students will receive information about completing the background check, at no cost to them, upon registering in the course. Please note that individuals with felony convictions(s) can rarely work as QAS paraprofessionals. Students must also present evidence of a Mantoux (PPD) skin test, commonly known as a TB test. Students whose Mantoux test is positive must also produce evidence of a recent (within 30 days) chest x-ray. Enrollment may be limited due to health and safety considerations, facility limitations, faculty workload, the availability of qualified instructors, funding limitations, the constraints of regional planning or legal requirements imposed by statutes, regulations, or contracts. Fair and equitable procedures will be used for determining who may enroll in affected courses or programs.

Recommended: PSYCH 001

This course prepares students for entry-level positions in the field of behavioral health treatment, providing evidence-based treatment to individuals with autism spectrum disorders (ASD). Students who complete this course successfully will have the knowledge and experience to become qualified autism service paraprofessional (QAS). The course will provide students with foundational knowledge in autism spectrum disorders, applied behavior analysis, and evidence-based intervention techniques. The curriculum focuses on four fundamental areas of knowledge: Understanding Autism; Using the Principles of Applied Behavior Analysis; Teaching Skills to Children with Autism Spectrum Disorders; and Managing Challenging Behaviors.

ALD HTH 025A Qualified Autism Service Paraprofessional-Didactic (2.5) CSU

Prerequisite: Students must be at least 18 years of age and have a high school diploma or equivalent to register for the course. Additionally as students and QAS paraprofessionals train and work directly with children, prior to training in this field, students are required to complete a standardized background check and have a current Basic Life Support CPR completion card. Students will receive information about

completing the background check, at no cost to them, upon registering in the course. Please note that individuals with felony convictions(s) can rarely work as QAS paraprofessionals. Students must also present evidence of a Mantoux (PPD) skin test, commonly known as a TB test. Students whose Mantoux test is positive must also produce evidence of a recent (within 30 days) chest x-ray. Enrollment may be limited due to health and safety considerations, facility limitations, faculty workload, the availability of qualified instructors, funding limitations, the constraints of regional planning or legal requirements imposed by statutes, regulations, or contracts. Fair and equitable procedures will be used for determining who may enroll in affected courses or programs.

Corequisite: ALD HTH 025B

The Qualified Autism Service Paraprofessional (QAS) is comprised of two required courses (ALD HTH 025A and 025B). These courses prepare students for entry-level positions in the field of behavioral health treatment, providing evidence-based treatment to individuals with autism spectrum disorders (ASD). Students who complete these courses successfully will have the knowledge and experience to become a QAS. This course (ALD HTH 025A) will provide students with foundational knowledge in autism spectrum disorders and applied behavior analysis. The curriculum focuses on two fundamental areas of knowledge: understanding autism and using the principles of applied behavior analysis.

ALD HTH 025B Qualified Autism Service Paraprofessional-Practical (.5) CSU

Prerequisite: Students must be at least 18 years of age and have a high school diploma or equivalent to register for the course. Additionally as students and QAS paraprofessionals train and work directly with children, prior to training in this field, students are required to complete a standardized background check and have a current Basic Life Support CPR completion card. Students will receive information about completing the background check, at no cost to them, upon registering in the course. Please note that individuals with felony convictions(s) can rarely work as QAS paraprofessionals. Students must also present evidence of a Mantoux (PPD) skin test, commonly known as a TB test. Students whose Mantoux test is positive must also produce evidence of a recent (within 30 days) chest x-ray. Enrollment may be limited due to health and safety considerations, facility limitations, faculty workload, the availability of qualified instructors, funding limitations, the constraints of regional planning or legal requirements imposed by statutes, regulations, or contracts. Fair and equitable procedures will be used for determining who may enroll in affected courses or programs.

Corequisite: ALD HTH 025A

The Qualified Autism Service Paraprofessional (QAS) is comprised of two required courses (ALD HTH 025A and 025B). These courses prepare students for entry-level positions in the field of behavioral health treatment, providing evidence-based treatment to individuals with autism spectrum disorders (ASD). Students who complete these courses

successfully will have the knowledge and experience to become a QAS. This course (ALD HTH 025B) will provide students with applied behavior analysis and evidence-based intervention techniques. The curriculum focuses on two fundamental areas of knowledge: teaching skills to children with autism spectrum disorders and managing challenging behaviors.

ALD HTH 026 Advanced Autism Service Technician (3) CSU

Prerequisite: ALD HTH 025, Students must be at least 18 years of age and have a high school diploma or equivalent to register for the course. Additionally as students and QAS paraprofessionals train and work directly with children, prior to training in this field, students are required to complete a standardized background check and possess a current Basic Life Support CPR completion card. Students will receive information about completing the background check, upon registering in the course. Please note that individuals with felony convictions(s) can rarely work as QAS paraprofessionals. Students must also present evidence of a Mantoux (PPD) skin test, commonly known as a TB test. Students whose Mantoux test is positive must also produce evidence of a recent (within 30 days) chest x-ray. Enrollment may be limited due to health and safety considerations, facility limitations, faculty workload, the availability of qualified instructors, funding limitations, the constraints of regional planning or legal requirements imposed by statutes, regulations, or contracts. Fair and equitable procedures will be used for determining who may enroll in affected courses or programs.

Corequisite: ALD HTH 027

The Advanced Qualified Autism Service Paraprofessional (QAS) is comprised of two required courses (ALD HTH 026 and 027). These courses build upon two previous courses in the series (ALD HTH 025A and 025B). Students who complete these courses successfully will have the knowledge and experience to progress in the field of autism treatment. This course (ALD HTH 026) will provide students with more in-depth knowledge of autism spectrum disorder and applied behavior analysis.

ALD HTH 027 Advanced Autism Service Technician Practicum (1) CSU

Prerequisite: Students must be at least 18 years of age and have a high school diploma or equivalent to register for the course. Additionally as students and QAS paraprofessionals train and work directly with children, prior to training in this field, students are required to complete a standardized background check and possess a current Basic Life Support CPR completion card. Students will receive information about completing the background check, upon registering in the course. Please note that individuals with felony convictions(s) can rarely work as QAS paraprofessionals. Students must also present evidence of a Mantoux (PPD) skin test, commonly known as a TB test. Students whose Mantoux test is positive must also produce evidence of a recent (within 30 days) chest x-ray. Enrollment may be limited due to health and safety considerations, facility limitations, faculty workload, the

Course Descriptions

availability of qualified instructors, funding limitations, the constraints of regional planning or legal requirements imposed by statutes, regulations, or contracts. Fair and equitable procedures will be used for determining who may enroll in affected courses or programs.

Corequisite: ALD HTH 026

The Autism Service Technician program is comprised of two required courses (ALD HTH 26 and 27). These courses build upon two previous courses in the series (ALD HTH 25A and 25B). Students who complete these courses successfully will have the knowledge and experience to progress in the field of autism treatment. This course (ALD HTH 026A) will provide students with more in-depth knowledge of autism spectrum disorder and applied behavior analysis.

ALD HTH 033 Medical Terminology (3) CSU

Prerequisite: ENGLISH 028 or equivalent

This course is designed for students interested in learning more about medical terminology and basic anatomy and applying this knowledge to a variety of allied health professions. Students will develop a comprehensive medical vocabulary applicable to all specialties of medicine through the study of Greek and Latin prefixes, suffixes and root words. Students will also develop a basic understanding of anatomy and the function of major body systems.

ALD HTH 043CO Anatomy and Physiology for Emergency Health Care Personnel (4) CSU

Prerequisites: Enrollment may be limited due to health and safety considerations, as well as the constraints of regional planning or legal requirements imposed by statutes, regulations or contracts Enrollment may also be limited to students meeting prerequisites and co-requisites and established pursuant to Title 5, sections 55200 and Board Rule 8605. Title 22 section § 100158 states that students must possess a current EMT certificate to be eligible to become a Paramedic. Students admitted through the UCLA Center for Prehospital Care.

This course will provide an overview of the structure and function of all bodily systems. Emphasis will be placed on knowledge that will enhance the student's ability to treat medical emergencies.

ALD HTH 044CO Introduction to Emergency Medical Service Systems (2) CSU

Prerequisite: Title 22 requires students to be 18 years of age. Enrollment may be limited due to health and safety considerations, as well as the constraints of regional planning or legal requirements imposed by statutes, regulations or contracts Enrollment may also be limited to students meeting prerequisites and co-requisites and established pursuant to Title 5, sections 55200 and Board Rule 8605.

Corequisites: ALD HTH 052

This course provides an overview of Emergency Medical Service Systems, the ethics of patient care management and the law and policies of emergency services, including the relationship between the emergency care provider and other health care professionals. Verbal and nonverbal behavior and communications related to the delivery of emergency medical

services are also discussed.

ALD HTH 045CO Patient Assessment and Airway Management (2) CSU

Prerequisites: ALD HTH 052. Title 22 requires students to be 18 years of age. Enrollment may be limited due to health and safety considerations, as well as the constraints of regional planning or legal requirements imposed by statutes, regulations or contracts Enrollment may also be limited to students meeting prerequisites and co-requisites and established pursuant to Title 5, sections 55200 and Board Rule 8605.

This course gives an overview of prehospital patient assessment for Emergency Health Care. This course provides foundational knowledge and skills to effectively assess and treat patients in a prehospital setting.

ALD HTH 046CO Cardiology Assessment and Medical Emergencies (6) CSU

Corequisites: ALD HTH 052. Title 22 requires students to be 18 years of age. Enrollment may be limited due to health and safety considerations, as well as the constraints of regional planning or legal requirements imposed by statutes, regulations or contracts Enrollment may also be limited to students meeting prerequisites and co-requisites and established pursuant to Title 5, sections 55200 and Board Rule 8605.

Through lectures and discussions, this course will cover the pathophysiological principles and assessment findings in cardiology, neurology, and respiratory emergencies.

ALD HTH 047CO Emergency Response to Crisis (4) CSU

Prerequisites: ALD HTH 052.

This course will focus on techniques of immediate intervention in a variety of field crises including shock, pediatric emergencies, abuse, and trauma to various body systems, obstetrics, and burns.

ALD HTH 048CO Medical Emergencies and Pharmacological Interventions (5) CSU

Prerequisites: ALD HTH 052. Title 22 requires students to be 18 years of age. Enrollment may be limited due to health and safety considerations, as well as the constraints of regional planning or legal requirements imposed by statutes, regulations or contracts Enrollment may also be limited to students meeting prerequisites and co-requisites and established pursuant to Title 5, sections 55200 and Board Rule 8605.

This course emphasizes pathophysiology, assessment and management of patients with various systematic diseases, and the application of advanced life support techniques in medical emergencies. Formulation of a field impression and implementation of pharmacological intervention in a laboratory setting are also studied.

ALD HTH 049CO Clinical Internship* (4) CSU

Prerequisites: Title 22 requires students to be 18 years of age. Enrollment may be limited due to health and safety considerations, as well as the constraints of regional planning

Course Descriptions

or legal requirements imposed by statutes, regulations or contracts. Enrollment may also be limited to students meeting prerequisites and co-requisites and established pursuant to Title 5, sections 55200 and Board Rule 8605. NOTE: This course is only open to students admitted through UCLA Center for Prehospital Care.

This course presents the coordination of advanced emergency medical service training within a hospital setting. Students will be able to participate in multiple departments within the hospital: critical care units, OBI/ GYN, operating rooms, anesthesia, recovery, pediatrics, and psychiatrics. This will assure a variety of patient presentations and complaints. NOTE: This course is only open to students admitted through UCLA Center for Prehospital Care.

ALD HTH 050CO Field Internship (9) CSU

Prerequisites: ALD HTH 049CO. Title 22 requires students to be 18 years of age. Enrollment may be limited due to health and safety considerations, as well as the constraints of regional planning or legal requirements imposed by statutes, regulations or contracts Enrollment may also be limited to students meeting prerequisites and co-requisites and established pursuant to Title 5, sections 55200 and Board Rule 8605.

Coordination of advanced emergency medical service training with a field advanced life support unit. Students will be able to participate in emergency intervention in traumatic and medical emergencies. Field internship represents the phase of instruction where the student learns how to apply knowledge and skills to the field environment.

ALD HTH 052 Emergency Medical Training – Basic (9) CSU

Prerequisite: ALD HTH 021. Title 22 requires students to be 18 years of age. Enrollment may be limited due to health and safety considerations, as well as the constraints of regional planning or legal requirements imposed by statutes, regulations or contracts Enrollment may also be limited to students meeting prerequisites and co-requisites and established pursuant to Title 5, sections 55200 and Board Rule 8605.

This course provides basic emergency medical care training for firefighters and ambulance attendants. Successful course completion results in NREMT-B certification granted from the State of California, through the Los Angeles County EMS Agency.

ALD HTH 053 Emergency Care Technician/Pre-paramedic (3.5) CSU

Prerequisite: ALD HTH 052. Enrollment may be limited due to health and safety considerations, as well as the constraints of regional planning or legal requirements imposed by statutes, regulations or contracts Enrollment may also be limited to students meeting prerequisites and co-requisites and established pursuant to Title 5, sections 55200 and Board Rule 8605.

This course is designed to increase the depth and breadth of knowledge for certified Emergency Medical Technicians preparing for additional knowledge and certification. The

topics covered in the course include: medical terminology, anatomy and physiology, respiratory system, cardiovascular system, nervous system, pharmacology, trauma, electrophysiology and the pathophysiology of shock. Case studies and patient simulations will be utilized to reinforce student objectives.

ALD HTH 056 Communication & Customer Service Skills in Healthcare (1)

Corequisite: PHRMCTK 021, 023

Recommended: ENGLISH 028 or equivalent

This course will introduce students to the workplace skills necessary to succeed in healthcare professions. The focus will be on professional behavior, communication techniques and HIPPA regulations.

ALD HTH 057 Computers in Health Occupations (1)

Recommended: ENGLISH 028 or equivalent

This course will introduce students to the use of computers in a variety of healthcare settings. Students will use software systems used in pharmacies, medical offices, and hospitals.

ALD HTH 080 Pharmacy Services Associate In-service Training (3.5)

This course is designed for Pharmacy Clerks working in community pharmacies. This course provides the students with additional job skills to perform third party billing, understand workflow and work station procedures, operate a cash register, utilize pharmacy software, understand drive-thru procedures and understand quality systems in a community pharmacy.

ALD HTH 081 Pharmacy Technician In-service Training (4)

This course is designed for newly hired Pharmacy Technicians working in community pharmacies. This course meets employer orientation requirements and provides the students with the specific job and technical skills to work as a Pharmacy Technician.

ALD HTH 082 Lead Pharmacy Technician In-service Training (3.5)

This course is designed for newly hired Lead Pharmacy Technicians working in community pharmacies. This course meets employer orientation requirements and provides the students with the specific job and technical skills to work as a Lead Pharmacy Technician.

ALD HTH 102 Health and Social Justice (3) CSU

Recommended: ENGLISH 101 or placement exam

This course provides an introduction to health inequities in the United States which stem from unequal living conditions. Students will explore how education, socioeconomic status, racism, and gender shape health epidemics and policy development. The basic skills necessary for advocating for health and social justice will be theoretically demonstrated.

ALD HTH 103 Introduction to Public Health (3) CSU

Recommended: ENGLISH 101 or placement exam

Course Descriptions

This course provides an introduction to the discipline of Public Health. Students will gain an understanding of the basic concepts and terminologies of public health, and the history and accomplishments of public health officials and agencies. An overview of the functions of various public health professions and institutions, and an in-depth examination of the core public health disciplines is covered. Topics of the discipline include the epidemiology of infectious and chronic disease; prevention and control of diseases in the community including the analysis of the social determinants of health and strategies for eliminating disease, illness and health disparities among various populations; community organizing and health promotion programming; environmental health and safety; global health; and healthcare policy and management.

ALD HTH 285 Directed Study – Allied Health (2) UC/CSU

This course allows students to pursue Directed Study in Allied Health on a contract basis under the direction of the supervising instructor.

AMERICAN SIGN LANGUAGE

(A S L)

A S L 001 American Sign Language (4) UC/CSU

Develops basic vocabulary and grammar of American Sign Language. Emphasis is placed on receptive and comprehension skills. Incorporates vital aspects of the Deaf culture and community.

A S L 002 American Sign Language II (4) UC/CSU

Prerequisite: A S L 001 with a grade of "C" or better
Completes the study of elementary vocabulary and grammar. Increased development of inflectional and non-manual behavior patterns. There will also be extensive study on the Deaf Culture and Community within receptive and expressive conversation.

ANATOMY

(ANATOMY)

ANATOMY 001 Introduction to Human Anatomy (4) UC/CSU

Prerequisite: BIOLOGY 003 or BIOLOGY 003A and BIOLOGY 003B

Recommended: Math 115 and ENGLISH 100 or 028

This course presents the structure of the human body by subdividing it into individual body systems. The functional anatomy of each level of organization is studied from the microscopic level to the gross level. Laboratory exercises include the study of histology, human models and dissected specimens. This course is intended to meet the requirements of students majoring in nursing, dental hygiene, occupational therapy, physical therapy or for those wishing to extend their knowledge of the human body.

ANTHROPOLOGY

(ANTHRO)

ANTHRO 101 Human Biological Evolution (3) UC/CSU

Students in this course will focus on the relationship between human biology, culture and the physical environment as interpreted within the frameworks of evolutionary theory and the science of genetics. Students will trace humans place in the animal kingdom, with special emphasis on primates. They will examine archeological evidence associated with human fossils and probe human physical variability within the context of Mendelian and population genetics.

ANTHRO 102 Human Ways of Life: Cultural Anthropology (3) UC/CSU

This course presents students with an anthropological understanding of the varieties of lifestyles in human societies throughout the world, from nomadic foragers to complex state-level societies such as our own. The varied forms of marriage and the family, economic, political, and legal arrangements, religious expressions and art forms are examined in their own contexts and compared with others.

ANTHRO 103 Archaeology: Reconstructing the Human Past (3) UC/CSU

Students of this course will focus on the discovery and reconstruction of the life ways of extinct societies through the excavation, analysis and interpretation of the material remains, including refuse, stone tools, pottery, burials, and housing. By examining these remains within the context of their environments and changes over time, students acquire a means of understanding the human past.

ANTHRO 104 Human Language and Communication (3) UC/CSU

This course offers students an introduction to Linguistic Anthropology. This course surveys the great variety of ways humans communicate both verbally and non-verbally. The course focuses on the structure, function, history, and evolution of language.

ANTHRO 109 Gender, Sex and Culture (3) UC/CSU

This course presents students with a cross-cultural comparison of gender roles as viewed from biological/evolutionary, cultural, psychological, prehistoric and historic perspectives as they relate to the status of women and men in all levels of society, from bands to the modern state.

ANTHRO 111 Human Biology Lab (2) UC/CSU

This laboratory class offers students an exploration of selected topics in biologic anthropology including genetics, human variation, the living primates, human osteology and paleoanthropology.

ANTHRO 119 Introduction to Forensic Anthropology (2) CSU/UC

This course provides students with a hands-on study of the types and nature of information that can be recovered from

bones and teeth including age, sex, size, population affinity, pathology, diet, and demography.

ANTHRO 121 Anthropology of Religion, Magic, and Witchcraft (3) UC/CSU

This course provides students with a broad view of anthropological ways of looking at religion. Students will gain a socio-cultural understanding of religious behaviors through the exploration of core topics within the subject, such as myth, ritual, and various types of religious specialists as well as related practices including magic, witchcraft, and divination.

ANTHRO 132 Native People of North America (3) UC/CSU

This course offers students a broad survey of Native Americans living north of Mexico, with emphasis on the natives of California. The survey of the various native groups will be from the ethnographic present and include an examination of the issues facing indigenous groups today.

ANTHRO 134 People and Cultures of the Middle East (3) UC/CSU

Through this course, students will explore diversity, complexity, and dynamism of social life in the region known as the Middle East. From the holistic and comparative nature of anthropological study, the course offers students a broad survey of peoples living in the region. Included in this study are a variety of interconnected topics that have been important in the anthropological literature on the region. The diverse social forms of nomads, tribes, villages, and cities and the associated social and economic intricacies will be examined. Also explored will be the systems of values, norms, and religious beliefs as part of social processes. The region will be defined in both a geographic and cultural framework.

ARABIC (ARABIC)

ARABIC 001 Elementary Arabic I (5) UC/CSU

Corequisite: ARABIC 101.

This course stresses the fundamentals of pronunciation, grammar, practical vocabulary, useful phrases, and the ability to understand, speak, read, and write basic Arabic. It includes an introduction to Arabic civilization and culture.

ARABIC 002 Elementary Arabic II (5) UC/CSU

Corequisite: ARABIC 101.

This course completes the elementary Arabic grammar and begins the reading and writing of more advanced elementary texts. It continues with the study of the Arabic culture.

ARCHITECTURE (ARC)

ARC 110 Introduction to Architecture (1)

This is an introductory lecture course on the profession of architecture and related fields which provides a general overview of the profession of architecture in terms of its history and development, the education process, the practice of architecture and allied professionals in the construction industry, and environmental design.

ARC 130 History of Architecture I (2)

This course covers the study of architecture history from the prehistoric times to the Renaissance, the development of place and function as it is influenced by the geographical, climatic, religious, social, economic and historical forces. This course analyzes the difference between world architecture history and western architecture history, including the characteristics of Latin America, Islamic and Asia. The history of architecture is seen through a perspective of how the built environment has responded to nature forces and resources; air, water, air and land. In addition, each period identifies technological innovation that characterized the historical roots in numerous civilizations.

ARC 131 History of Architecture II (2)

This course covers the study of architecture history from the Renaissance to our current times, the development of place and function as it is influenced by the geographical, climatic, religious, social, economic and historical forces. This course analyzes the difference between world architecture history and western architecture history, including the characteristics of Latin America, Islamic and Asia. The history of architecture is seen through a perspective of how the built environment has responded to nature forces and resources; air, water, air and land. In addition, each period identifies technological innovation that characterized the historical roots in numerous civilizations.

ARC 160 Computer for Designers (3) UC/CSU

This course is an introduction to Photoshop, InDesign and Illustrator geared toward architects, and interior designers. Emphasis on how designers can optimize and understand the role of digital medium in today's design industry.

ARC 161 Introduction to Computer Aided Architectural Design (2) UC/CSU (Formerly ARCH 036)

This is an introductory course in two-dimensional computer-aided drafting. Students learn the basic concepts involved in making computer-aided drawings, which are constructed using a microcomputer with appropriate software such as AutoCAD. Students use workstations equipped with a microcomputer, monitor, disk drives, digitizer, plotter, and printer.

ARC 162 Computer-Aided Design and Drafting (3) CSU (Formerly ARCH 037)

This second-semester course provides instruction in computer-aided drafting. Students use concepts learned in the introductory course and apply the fundamentals of two-dimensional concepts to three-dimensional concepts.

Course Descriptions

Drawings are constructed using a microcomputer with appropriate software such as AutoCAD.

ARC 172 Architectural Drawing I (3) CSU (Formerly ARCH 005)

This course explores the nature and limitations of materials using two and three-dimensional studies of form and composition. The study of architectural plan and section drawings, model making and finishing skills, materials studies, painting and finishes are also included.

ARC 180 Architectural Laboratory (1) CSU (Formerly ARCH 039)

This course is designed to reinforce the lectures presented in each computer-aided architecture class. It gives students the needed practice in applying software programs to various class assignments.

ARC 201 Basic Architectural Design I (3) UC/CSU (Formerly ARCH 033)

Prerequisites: ARC 172.

An introduction to the formal and spatial language of architecture explored through studio projects, informed by case study projects.

ARC 202 Basic Architectural Design II (3) UC/CSU (Formerly ARCH 034)

This course further extends the theories of space, form and vision, and applies them to architectural problem solving. Horizontal and vertical flow are studied. Computer application to design is also studied.

ART (ART)

ART 101 Survey of Art History I (3) UC/CSU

This course introduces students to some of the great ancient civilizations of the world. By studying the visual arts created during these times, students will come to understand the beliefs and aspirations of cultures such as the Ancient Egyptians, Greeks and Romans, and civilizations in geographic areas such as Africa, India, and Central America prior to the Spanish Conquest.

ART 102 Survey of Art History II (3) UC/CSU

Note: ART 101 is not a prerequisite to ART 102.

This course introduces students to the visual arts of Western Europe and the United States, beginning with the Renaissance and ending in the late twentieth century. The constantly-changing world view of this period will be studied in the works of such artists as Michelangelo and Rembrandt, and also through such movements as Romanticism, Impressionism, Expressionism and Cubism.

ART 103 Art Appreciation I (3) UC/CSU

This broad introduction to the nature, vocabulary, media, and history of art, with selections from Western and non-Western

culture, is designed to expand awareness and understanding of the visual arts as a unique medium for human interrelationships.

ART 107 Mexican Art - Modern (3) UC/CSU

This course surveys the pictorial arts of Mexico from the Pre-Revolutionary years of 1900 to the present day. It includes the Renaissance of Indigenous Mexican Art, the contemporary popular and fine arts, and investigates the development of Mexican-American Art. Among the artists discussed are Rivera, Tamayo, and Barragan.

ART 111 History of Contemporary Art (3) UC/CSU

This course traces the development of twentieth century European and North American painting, sculpture and architecture. Beginning with the late nineteenth century art movements of Impressionism and Post- Impressionism, this course attempts to reveal the meaning behind such visually challenging 'isms' as Cubism, Expressionism, Dadaism, and Surrealism. Artists discussed will include Monet, Picasso, Matisse, Dali, and Warhol.

ART 115 History of Modern Art (3) UC/CSU

An examination of Western art and its relationship to social, political, and economic aspects of modern society from the mid-nineteenth through the twentieth century. The influence of the Industrial Revolution, cross- cultural influences of Western and non-Western cultures, artistic response to new intellectual trends and disciplines, impact of the two World Wars, the rise of the Civil Rights and Feminist movements, innovations in technology, various stylistic movements, as well as methodological approaches to analysis of the subject will be considered. Students will master art historical and artistic vocabulary, will learn to perform visual analysis of compositions of painting, sculpture and other forms of visual art.

ART 117 Art: From Olmec to Aztec (3) UC/CSU

This introductory course covers the history of pre-Columbian art in Mexico, Guatemala, Honduras, and Belize from the Olmec to the Aztec periods (1500 BC - 1519 AD). Also included will be a survey of the art of the Late Formative Period, the city of Teotihuacan, the Classic Cities, and the Maya.

ART 141 Introduction to African Art (3) CSU/UC

Upon successful completion of this course, students will be able to demonstrate an understanding of transitions in the national geography of the African continent from the 17th century to the present through demonstrating an understanding of the ethnic diversity and distinct cultural traditions among the peoples of Africa. The above will be accomplished through research, writing and discussion of materials and techniques employed in the creation of African artistic and architectural works that serves as a function and add meaning to the full range of African art forms, and traditional style within particular cultural groups.

ART 201 Drawing I (3) UC/CSU

This course can teach you how to draw. Students learn to draw the world around them while developing their personal expressive visions. Various media, including pencil, ink, and charcoal is used. Students are expected to complete an additional two hours per week of studio homework.

ART 202 Drawing II (3) UC/CSU

Prerequisite: ART 201 with a grade of "C" or better, or equivalent.

Compositional aspects of drawing as applied to still lifes, natural forms, landscapes and human figures are explored. Students are expected to complete an additional two hours per week of studio homework.

ART 203 Drawing III (3) UC/CSU

Prerequisite: ART 202 with a grade of "C" or better, or equivalent.

Working primarily from a nude model, students learn to render the human figure in expressive and aesthetic ways, and a variety of media are used. Students are expected to complete an additional two hours per week of studio homework.

ART 204 Life Drawing I (3) UC/CSU

An introductory study of human structure and proportion is provided. Fundamental drawing approaches are explored in black and white media, with emphasis upon the development of observation and skill in graphic representation. Students are expected to complete an additional two hours per week of studio homework.

ART 205 Life Drawing II (3) UC/CSU

This course consists of drawing from the human figure, with emphasis upon the development of observation, structure and draftsmanship. Various media are explored stressing line and tone. Students are expected to complete an additional two hours per week of studio homework.

ART 206 Life Drawing III (3) UC/CSU

This course is a continuation of ART 205. Students are expected to complete an additional two hours per week of studio homework.

ART 300 Introduction to Painting (3) UC/CSU

Recommended: ART 201 or 501 with a grade of "C" or better, or equivalent.

This course provides a solid foundation for success in painting. Using a variety of media and techniques, students learn to paint aesthetically and expressively. Students are expected to complete an additional two hours per week of studio homework.

ART 301 Watercolor Painting I (3) UC/CSU

Prerequisite: ART 300 with a grade of "C" or better, or equivalent.

This course is an introduction to and an exploration of watercolor media in varied styles, techniques and pictorial methods. Students are expected to complete an additional two hours per week of studio homework.

ART 302 Watercolor Painting II (3) UC/CSU

Prerequisite: ART 301 with a grade of "C" or better, or equivalent.

This is a continuation of ART 301. Students are expected to complete an additional two hours per week of studio homework.

ART 304 Acrylic Painting I (3) UC/CSU

This course is an introduction to fundamental skills in acrylic media, canvas preparation and brush techniques.

Composition and color theory are studied as applied to still life, landscape and natural forms. Students are expected to complete an additional two hours per week of studio homework.

ART 305 Acrylic Painting II (3) UC/CSU

This course is a continuation of ART 304. Students are expected to complete an additional two hours per week of studio homework.

ART 306 Acrylic Painting III (3) UC/CSU

This continuation of ART 305 emphasizes concepts and subject matter.

ART 307 Oil Painting I (3) UC/CSU

Prerequisites: Art 201 and ART 501 with a grade of "C" or better, or equivalent.

Students learn the tools, materials, and techniques of painting with the oil painting medium. Students expand their knowledge of composition and color while developing art concepts, content and imagery from still life, landscape and the human figure.

ART 400 Introduction to Printmaking (3) UC/CSU

An introductory course in basic fine art printmaking processes.

ART 407 Relief Printmaking I (3) UC/CSU

An introductory course in basic relief printmaking processes. Students explore a wide range of relief printmaking processes and techniques from traditional woodcut to polymer plate while refining their printing and conceptual skills.

ART 408 Relief Printmaking II (3) UC/CSU

A more advanced course in relief printmaking processes. Students will explore color processes in depth, as well as cross-process work, while deepening their conceptual skills.

ART 411 Printmaking Studio (1) UC/CSU

This course provides serious beginning and more advanced printmaking students the opportunity to explore processes in greater depth with the full resources of the printmaking laboratory.

ART 501 Beginning Two-Dimensional Design (3) UC/CSU

This course lays the foundation for all the arts. By learning how to organize two-dimensional space, students will be prepared to successfully work in such other areas such as painting, drawing, and graphic design. Students are expected

Course Descriptions

to complete an additional two hours per week of studio homework.

ART 502 Beginning Three-Dimensional Design (3) UC/CSU

This is a fundamental course involving relationships of elements common to three-dimensional visual arts. Exercises will be given in geometric and biomorphic shapes. Various mediums and fabrication techniques will be explored, including the use of mat-board, wood, plaster and paint. ART 503 may be taken concurrently.

ART 503 Intermediate Design (3) UC/CSU

This course teaches students how to organize three-dimensional space, and lays the foundation for such other areas as sculpture, ceramics, and architecture. Students are expected to complete an additional two hours per week of studio homework.

ART 520 Design Workshop (3) CSU

This is a course in the principles of design. Emphasis is placed on individual research, experimentation and the development of style. Students work with a variety of art materials.

ART 521 Art Gallery Techniques (3) CSU

This is an introductory course about art gallery management including, but not limited to, curatorial strategies, exhibition design, proper handling of artworks and their installation, gallery preparation and maintenance, gallery lighting, production and distribution of press releases, announcements, exhibitions list, and related gallery literature. Students learn by working side-by-side with art professionals during preparation and installation.

ART 604 Graphic Design I (3) CSU

This is an introductory course in graphic design. Students learn to create thumbnail, rough and comprehensive layouts while exploring a variety of formats used to create graphic designs. Selecting appropriate type styles and sizes for headings and body copy, crop marks and presentation of the layout will also be covered. Students will prepare a camera-ready mechanical and have it printed in one color.

ART 605 Graphic Design II (3) CSU

This is a course in graphic design concentrating on full color applications of graphic art. Students learn to develop ad campaigns for print media, and to develop a series for advertising. Students will also create a mechanical for color printing.

ART 633 Introduction to Computer Graphics (3) UC/CSU

This is an introductory course in computer graphics designed to introduce students to the microcomputer, its operating system, and applications used as tools by artists and graphic designers.

ART 635 Desktop Publishing Design (3) CSU

This is an introductory course in desktop publishing design. The course is designed for students of design, fine art,

computer graphics and journalism. Emphasis will be on computer layout and composition. Basic concepts relating to type fonts, type styles, page design, readability, digital output, laser printers, and typesetters will be explored.

ART 639 Introduction to Digital Imaging (3) CSU

This is an introductory course in computer still-image manipulation. The topics presented include image editing, application of filters, integration of text, and the combination of scanned images.

ART 641 Advanced Desktop Publishing (3) CSU

This course presents the advanced use of "grids" in desktop publishing design. Emphasis will be placed on advanced computer layout, composition techniques, and team projects. Current issues regarding printing methods, pre-press and image setters will be explored.

ART 642 Audio/Video Post-Production (3) CSU

This course will introduce students to editing techniques using non-linear computerized editing software.

ART 708 Introduction to Ceramics (3) UC/CSU

This course provides a general introduction to the materials and processes of ceramic art. Instruction in basic hand construction methods is provided. Analysis of form, function, and decoration emphasizing the proper use of materials and tools is presented. Focus is placed on developing skills in forming and decorating. The class will consist of lectures, demonstrations of traditional hand building techniques, and surface treatment (decoration), studio work time, and critiques and individual consultation.

ART 709 Ceramics I (3) UC/CSU

This course is an introduction to the use of the potter's wheel. Continued utilization and expansion of skills developed in Art 708. Forms included for investigation: cylinder forms, bowl forms, the cylinder bottle form, lidded containers, and forms requiring pulled handles. Continued exploration of surface treatment and glazing techniques.

ART 710 Ceramics II (3) UC/CSU

This course continues to focus on the use of the potter's wheel as a forming method and means of artistic expression. Design and decorative techniques will be applied to wheel thrown forms, with an increased emphasis upon individual growth and personal expression with respect given to creative design abilities.

ART 711 Ceramics III (3) UC/CSU

This course continues to focus on the use of the potter's wheel as a forming method and means of artistic expression. Design and decorative techniques will be applied to wheel thrown forms, with an increased emphasis upon individual growth and personal expression with respect given to creative design abilities.

ART 806 Fine Art Photography I (3) UC/CSU

Corequisite: Art 639

This course uses digital programs such as Adobe Photoshop to develop, edit and print high quality fine art photography. Students will focus on lighting, form and composition in addition to other image manipulation techniques. Projects will emphasize content and context.

ASIAN AMERICAN STUDIES

(ASIAN)

ASIAN 003 The People and Cultures of Asia (3) UC/CSU

All areas of modern astronomy are discussed in this introductory course. Major topics include the history of astronomy, the sun, moon and planets, stars, constellations and galaxies, telescopes and other instruments.

ASTRONOMY

(ASTRON)

ASTRON 001 Elementary Astronomy (3) UC/CSU

Recommended: MATH 105 or equivalent

A conceptual survey of the basic principles and science of astronomy. Topics include the history of astronomy, the solar system, the Sun, galaxies, cosmology, and life in the universe. This introductory course is designed for the non-technical student.

ASTRON 005 Fundamentals of Astronomy Lab (1) UC/CSU

Corequisite: ASTRON 001

ASTRON 005 laboratory course offers an introductory presentation of the methods and techniques used by astronomers to determine the nature of the universe. This course uses some very basic mathematics, and can be taken by non-science and/or science majors. When taken together with either ASTRON 001, a student's 'science with a lab' transfer and graduation requirement is met. Topics covered in ASTRON 005 include star names, asterisms and constellations, sky motion, planet motion, orbital motion, stellar brightness, stellar spectrum, crater formation, star clusters, galaxies and deep sky objects. An important part of the course involves working with and learning the operation of astronomical instruments and equipment including star wheels, star atlases, astronomical binoculars and computer planetarium software.

ASTRON 185 Directed Study Astronomy (1) CSU

Students study Astronomy on a contract basis under the direction of a supervising instructor.

ASTRON 285 Directed Study Astronomy (2) CSU

Students study Astronomy on a contract basis under the direction of a supervising instructor.

AVIATION MAINTENANCE

TECHNICIAN

(AVIATEK)

AVIATEK 001 Maintenance Procedures (4) CSU

Corequisite: Must be taken concurrently with AVIATEK 002.

Instruction is offered in ground operations, servicing airplanes, maintenance publications, forms, records, and mechanic's privileges and limitations. Aircraft materials and processes are identified, with an emphasis on inspection procedures.

AVIATEK 002 Maintenance Procedures Laboratory (2) CSU

Corequisite: Must be taken concurrently with AVIATEK 001.

Instruction and practice are offered in the ground operations and servicing of airplanes. Maintenance publications, forms, and records are used in conjunction with inspection and repair procedures. Materials are identified and inspected to specifications.

AVIATEK 003 Basic Aircraft Science (4) CSU

Corequisite: Must be taken concurrently with AVIATEK 004.

Instruction is offered in applied mathematics, physics, aircraft drawing, and application of aircraft coverings, doping, and corrosion control composites.

AVIATEK 004 Basic Aircraft Science Laboratory (2) CSU

Corequisite: Must be taken concurrently with AVIATEK 003.

Instruction and practical application are offered in basic mathematics, physics, aircraft drawings and prints. Instruction and practice are also given in wood structures, aircraft coverings, aircraft finishing and corrosion control.

AVIATEK 005 Basic Electricity and Auxiliary Systems (4) CSU

Corequisite: Must be taken concurrently with AVIATEK 006.

Instruction is offered in basic electricity, Ohm's law, DC and AC circuits, semi-conductors, metric prefixes, and scientific notation. Communication and navigation systems, cabin atmosphere control, and ice and rain control systems are also covered.

AVIATEK 006 Basic Electricity and Auxiliary Systems Laboratory (2) CSU

Corequisite: Must be taken concurrently with AVIATEK 005.

This course describes relationships between voltage, current and power and explains how to use testing and measuring equipment in the inspection, checking, servicing and repair of the following systems: air conditioning, communication and navigation, and ice and rain control.

AVIATEK 007 Electrical and Instrument Systems (4) CSU

Prerequisite: AVIATEK005. Corequisite: Must be taken concurrently with AVIATEK 008.

Instruction is offered in the function of aircraft electrical systems and components, generators, and aircraft instruments

Course Descriptions

including flight, navigation, engine instrumentation, and position and warning systems.

AVIATEK 008 Electrical and Instrument Systems Laboratory (2) CSU

Prerequisite: AVIATEK006. Corequisite: Must be taken concurrently with AVIATEK 007.

An analysis is made of series, parallel and complex electrical circuitry in DC and AC supplemented by discussions of testing and measuring equipment. Description, operation, and maintenance procedures for aircraft instrumentation are also explained, as well as position and warning systems.

AVIATEK 009 Assembly, Rigging and Inspection (4) CSU

Corequisite: Must be taken concurrently with AVIATEK 010.

Instruction is offered in assembly and rigging techniques, with weight and balance theory and procedure emphasized, and in the fabrication and installation of fluid lines and fittings.

AVIATEK 010 Assembly, Rigging and Inspection Laboratory (2) CSU

Corequisite: Must be taken concurrently with AVIATEK 009.

Instruction is provided in the skills and techniques needed for the assembly and rigging of airframe structures, including weight and balance computation. Opportunity is provided to fabricate fluid lines and fittings.

AVIATEK 011 Aircraft Metal Assembly (4) CSU

Corequisite: Must be taken concurrently with AVIATEK 012.

This course offers a study of metal and non-metal repair procedures, including the materials and methods of fastening by welding, riveting, and other accepted techniques.

AVIATEK 012 Aircraft Metal Assembly Laboratory (2) CSU

Corequisite: Must be taken concurrently with AVIATEK 011.

Instruction and practice is offered in cutting, bending, forming, welding and fastening metal structures. Plastic enclosures, honeycomb and composites are evaluated. Structural repairs using various fastening and bonding techniques are emphasized.

AVIATEK 013 Hydraulic, Landing Gear, and Fuel Systems (4) CSU

Corequisite: Must be taken concurrently AVIATEK 014.

Instruction is offered in the study of hydraulic landing gear and aircraft fuel systems. Emphasis is placed on component design, operation, relationships, and systems troubleshooting.

AVIATEK 014 Hydraulic, Landing Gear, and Fuel Systems Laboratory (2) CSU

Corequisite: Must be taken concurrently with AVIATEK 013.

Hydraulic, landing gear, and fuel systems are studied and operated, with components removed and reinstalled. Emphasis is placed on procedures and techniques, troubleshooting and diagnosis.

AVIATEK 015 Propeller and Powerplant Systems (4) CSU

Corequisite: Must be taken concurrently with AVIATEK 016.

Instruction is offered in propellers and powerplant lubrication, and cooling, induction, and exhaust systems. Fire protection, including fire detection and extinguishing systems, is included.

AVIATEK 016 Propeller and Powerplant Systems Laboratory (2) CSU

Corequisite: Must be taken concurrently with AVIATEK 015.

Instruction and practice are offered in identifying lubrication; troubleshooting engine lubricating systems; servicing and repairing propellers and control systems; troubleshooting and repairing powerplant cooling, induction and exhaust systems; and inspecting and servicing powerplant fire protection systems.

AVIATEK 017 Ignition and Fuel Metering Systems (4) CSU

Corequisite: Must be taken concurrently with AVIATEK 018.

Instruction is offered in the principles and practices of aircraft powerplant ignition systems and fuel metering systems.

AVIATEK 018 Ignition and Fuel Metering Systems Laboratory (2) CSU

Corequisite: Must be taken concurrently with AVIATEK 017.

Instruction and practice are offered in inspecting, checking, servicing, troubleshooting, and repairing aircraft ignition and fuel metering systems.

AVIATEK 019 Reciprocating Powerplant Overhaul (4) CSU

Prerequisites: AVIATEK015 and 17.

Corequisite: Must be taken concurrently with AVIATEK 020.

Instruction is offered in the maintenance, maintenance publications, and basic engine theory and overhaul procedures of reciprocating engines.

AVIATEK 020 Reciprocating Powerplant Overhaul Laboratory (2) CSU

Prerequisites: AVIATEK 016 and 018. Corequisite: Must be taken concurrently with AVIATEK 019.

Instruction and practice are offered in the use of maintenance publication records relative to overhaul procedures. Complete engine over- haul procedures, methods and practice are presented.

AVIATEK 021 Powerplant Troubleshooting and Testing (4) CSU

Prerequisite: AVIATEK 019.

Corequisite: Must be taken concurrently with AVIATEK 022.

Instruction is offered in powerplant inspection and troubleshooting procedures. Course includes turbine engine theory and operation.

AVIATEK 022 Powerplant Troubleshooting and Testing Laboratory (2) CSU

Prerequisite: AVIATEK 020. Corequisite: Must be taken concurrently with AVIATEK 021.

Instruction and practice are offered in the installation, operation, and troubleshooting of aircraft powerplants.

AVIATEK 023 Inspection and Evaluation (4) CSU

Corequisite: Must be taken concurrently with AVIATEK 024. Instruction is offered in conducting 100-hour inspections. General airframe and powerplant subjects for the Airframe and/or Powerplant License are reviewed. Emphasis is placed on preparation for Federal Aviation Administration written examinations. Note: **Students must have a minimum 2.0 GPA in Aviation Maintenance Technology prior to enrolling in AVIATEK 023 and 024.**

AVIATEK 024 Inspection and Evaluation Laboratory (2) CSU

Corequisite: Must be taken concurrently with AVIATEK 023. Instruction and practice is offered in conducting a 100-hour inspection on an airframe and powerplant, using the appropriate reference material and correct procedures to determine airworthiness of an airframe or powerplant. Students perform general practical airframe and powerplant projects. Note: **Students must have a minimum 2.0 GPA in Aviation Maintenance Technology prior to enrolling in AVIATEK 023 and AVIATEK 024.**

AVIATEK 075 Introduction to Unmanned Aircraft Systems (4)

Corequisite: Must be taken concurrently with AVIATEK 076. This course covers the study of architecture history from the Renaissance to our current times, the development of place and function as it is influenced by the geographical, climatic, religious, social, economic and historical forces. This course analyzes the difference between world architecture history and western architecture history, including the characteristics of Latin America, Islamic and Asia. The history of architecture is seeing through a perspective of how the built environment has responded to nature forces and resources; air, water, air and land. In addition, each period identifies technological innovation that characterized the historical roots in numerous civilizations.

AVIATEK 076 Introduction to Unmanned Aircraft Systems Lab (2)

Corequisite: Must be taken concurrently with AVIATEK 075. This is a hands-on laboratory accompanying AVIATEK 075: Introduction to Unmanned Aircraft Systems (UAS). Students will practice proper procedures for flying a variety of UAS according to 14 CFR Part 107 in order to master essential flight characteristics.

BIOLOGY (BIOLOGY)

(Also see Anatomy, Environmental Science, Microbiology, and Physiology.)

BIOLOGY 003 Introduction to Biology (4) UC/CSU (Same as BIOLOGY 003A and 003B combined)

This course is designed for non-biology majors and emphasizes the basic principles in biology and the fundamental characteristics of organisms. Topics covered in lecture and in lab include the scientific method, basic biological molecules, cell structure and function, energy acquisition, reproduction, gene expression, genetics, evolution, and ecology. This course fulfills the general education (GE) requirement for a biological science course with laboratory. When offered, a hybrid class section offers an on-line lecture combined with on-campus lab.

BIOLOGY 003A Introduction to Biology - Lecture (3) UC/CSU

Recommended: ENGLISH 028 and MATH 105. May be taken concurrently with this course.

This course emphasizes the basic principles in biology and the fundamental characteristics of organisms. Topics covered include the scientific method, basic biological molecules, cell structure and function, energy acquisition, reproduction, gene expression, control of gene expression, evolution, and ecology. BIOLOGY 003A and 003B combined is the same as BIOLOGY 003.

BIOLOGY 003B Introduction to Biology - Laboratory (1) UC/CSU

Prerequisite: BIOLOGY 003A. May be taken concurrently with this course.

Recommended: ENGLISH 028 and MATH 105. May be taken concurrently with this course.

This laboratory course will enable students to practice the scientific method and to observe biological structures and processes covered in BIOLOGY 3A. This course, in combination with BIOLOGY 3A, fulfills the laboratory science general education requirement. This course is designed for non-biology majors. BIOLOGY 003A and 003B combined is the same as BIOLOGY 003.

BIOLOGY 006 General Biology I (5) UC/CSU

The principles of molecular biology, cell structure and function, bioenergetics, genetics and development are studied in this course. Together, BIOLOGY 006 and 007 satisfy requirements of lower-division biology for biological science majors, along with pre-medical, pre-dental, and pre-pharmacy majors. Note: Many four year institutions recommend the completion of both Biology 6 and BIOLOGY 007 as a core program.

BIOLOGY 007 General Biology II (5) UC/CSU

Prerequisite: BIOLOGY 003 or BIOLOGY 003A and 003B, and MATH 125

Recommended: BIOLOGY 006

This course covers the principles of organ and organ system physiology in plants and animals, ecology and the course of evolution. A survey of the various plant and animal groups is included. Note: Many four-year institutions recommend the completion of both BIOLOGY 006 and 007 as a core program.

UC Transfer Credit Limit: No transfer credit will be given for BIOLOGY 003A or 003B if taken after BIOLOGY 006 or 007.