

COURSE DESCRIPTIONS

(CREDIT)

This section contains descriptions of the courses offered at Valley College.

All courses which meet the Major Requirements of the educational programs listed in this catalog may be applied toward graduation requirements for the Associate Degree. All transfer courses may also be applied to the Associate Degree. Some courses which are offered for college credit, but which cannot be applied toward graduation requirements for the Associate Degree are designated by the code NDA, Non Degree Applicable.

The course title and the number of units per semester are shown on the first line. In addition, the following code letters are found after the units:

- **UC** – This course is acceptable for unit credit at all branches of the University of California.
- **CSU** – This course is acceptable for credit at all branches of the California State Universities and Colleges.
- **NDA** – Non Degree Applicable.
- **RPT** – The repetitive nature of a course is designated by the abbreviation **RPT**. The symbol **RPT** indicates the number of times a course may be repeated for credit. Example: Spanish 8, Conversational Spanish (2) RPT3. This course may be taken for four semesters at two units per semester.

Courses not offered every semester are indicated by the symbol ‡. Students are advised to pay careful attention to the class schedule for current enrollment information.

Certain courses have some class sections which are designated as *Transfer Alliance Program* (formerly *Honors*). These classes are designed primarily for students who plan to transfer to a four-year college or university. Transfer Alliance classes are indicated in this section by the symbol ☉ which appears at the end of the course title line of information.

Several courses will show a California Articulation Number (CAN) in parentheses after the course title information. The CAN number is a common reference number used for courses statewide to identify course content.

NOTE: Since agreements concerning transferability and equivalencies may change, students are advised to check with a counselor for exact information and to seek assistance from the appropriate department chairperson when making extended plans.

ACCOUNTING (ACCTG)

1 Introductory Accounting I (5)

UC:CSU

(Business Administration majors should take this course in the third semester.)

Prerequisite: None.

Lecture, 5 hours.

Fundamental principles of accounting. Includes study of accounting reports, pay-rolls, accrued and deferred items, receivables and payables, asset valuation, and related areas of study.

2 Introductory Accounting II (5)

UC:CSU

(Business Administration majors should take this course in the fourth semester.)

Prerequisite: Acctg 1 or Acctg 21 and 22 with a grade of C or better.

Lecture, 5 hours.

An overview of partnership and corporation accounting; departmental and branch accounting; manufacturing and cost accounting, taxes, managerial analysis and interpretation of accounting reports.

3 Intermediate Accounting (3) CSU

Prerequisite: Acctg 2 with a grade of C or better.

Lecture, 3 hours.

Theory and practice, essentially problem technique. Topics include working papers, valuation of current and fixed assets, consignments, installment sales, intangible assets, investments, funds and reserves, corrections, analysis of statements, application of funds.

11 Cost Accounting ‡ (3) CSU

(Offered fall only.)

Prerequisite: Acctg 2 with a grade of C or better.

Lecture, 3 hours.

A survey of the field of cost accounting in general, and consideration of job-lot and process cost accounting in particular. Receiving attention are such topics as accounting methods for material, labor, and factory overhead, and preparation of financial statements from cost data. Numerous problems and one practice set are completed.

15 Tax Accounting I (3) CSU

Prerequisite: Acctg 2 with a grade of C or better.

Lecture, 3 hours.

Study of federal and California income tax laws as they apply to individuals. This course will also include the study of the preparation of Federal and California Income Tax Returns required to be filed.

16 Tax Accounting II (3) CSU

Prerequisite: Acctg 15 with a grade of C or better.

Lecture, 3 hours.

Application of federal and California income tax laws to partnerships, corporations, estates, and trusts and gifts. Will also include the study of required accounting procedures and the preparation of income tax returns required to be filed.

18 Computerized Payroll Accounting (3)

Prerequisite: Acctg 1 or Acctg 21 and 22 with a grade of C or better.

Lecture, 2 hours; laboratory, 2 hours.

This course will cover procedures and practices involved in a manual or automated payroll system. Students will become familiar with current Federal and California laws affecting payroll, computation of payroll taxes and preparation of required payroll tax returns/forms.

20 Managerial Accounting ‡ (3) CSU

(Offered Spring only.)

Prerequisite: Acctg 2 with a grade of C or better.

Lecture, 3 hours.

The application of accounting analysis to business decision, planning and control. Emphasis on the how to use it rather than how to do the accounting provides understanding of the use of accounting records and reports in various fields of business decision making.

21 Bookkeeping and Accounting I (3) UC:CSU

(Accounting 21 and 22 together equal Accounting 1)

Prerequisite: None.

Lecture, 3 hours.

Fundamentals of double entry bookkeeping; preparation of the trial balance; work sheets and simple financial statements; use of controlling accounts; the control of cash and bank reconciliation statements.

ACCT 21 AND 22 COMBINED: MAXIMUM UC CREDIT, 5 UNITS.

22 Bookkeeping and Accounting II (3) UC:CSU

(Accounting 21 and 22 together equal Accounting 1)

Prerequisite: Acctg 21 with a grade of C or better.

Lecture, 3 hours.

The voucher system; payroll accounting; accounting for notes, drafts, bad debts, inventories, cost of goods sold, fixed assets, depreciation, adjustments, and interim statements.

25 Automated Accounting Methods and Procedures (3)

Prerequisite: Acctg 1 or Acctg 21 and 22 with a grade of C or better.

Lecture, 3 hours.

Computer applications to accounting and business, with special reference to billing, accounts receivable, accounts payable, payroll, and material and production control. Field trips.

ACCT 21 AND 22 COMBINED: MAXIMUM UC CREDIT, 5 UNITS.

911-921-931-941 Cooperative Education - Accounting (1-4) CSU

Accounting is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

ADMINISTRATION OF JUSTICE (ADM JUS)**1 Introduction to Administration of Justice (3) UC:CSU**

(CAN AJ 2)

Prerequisite: None.

Lecture, 3 hours.

The history and philosophy of administration of justice in Europe and America, including identification of the various sub-systems. Also included are the theories of crime, punishment, rehabilitation, ethics, education and training for professionalism in the justice system.

AJ 1 AND 4 COMBINED: MAXIMUM UC CREDIT, ONE COURSE.

2 Concepts of Criminal Law ‡ (3) UC:CSU

(CAN AJ 4)

Prerequisite: None.

Lecture, 3 hours.

Historical development, philosophy of law and constitutional provisions; definitions, classification of crime, and their application to the justice system; legal research, study of case law, methodology, and concepts of law as a social force.

3 Legal Aspects of Evidence ‡ (3) CSU

Prerequisite: None.

Lecture, 3 hours.

Origin, development, philosophy and Constitutional basis of evidence; Constitutional and procedural considerations affecting arrest, and search and seizure; kinds and degrees of evidence and rules governing admissibility; judicial decisions interpreting individual rights and case studies.

4 Principles and Procedures of the Justice System ‡ (3) CSU

Prerequisite: None.

Lecture, 3 hours.

An in-depth study of the role and responsibilities of each segment within the administration of justice system: law enforcement, judicial, and corrections. A past, present and future exposure to each sub-system's procedures, from initial entry to final disposition, and the relationship each segment maintains with its system members.

AJ 1 AND 4 COMBINED: MAXIMUM UC CREDIT, ONE COURSE. NO UC CREDIT FOR AJ 4 IF TAKEN AFTER SUMMER 1995.

5 Criminal Investigation ‡ (3) CSU

(CAN AJ 8)

Prerequisite: None.

Lecture, 3 hours.

Fundamentals of investigation and the techniques of crime scene recording and search. The collection and preservation of physical evidence; method of operation processes, sources of information; interview and interrogation; follow-up, and case preparation.

6 Patrol Procedures ‡ (3) CSU

Prerequisite: None.

Lecture, 3 hours.

This course will cover the law, policies, techniques, and procedures used by law enforcement agencies across the country, as well as internationally. Topics included are powers of police, types of patrol, types of service calls, equipment and technology, search and seizure, interview and interrogation, and alarm.

8 Juvenile Procedures ‡ (3) CSU*Prerequisite: None.***Lecture, 3 hours.**

The organization, functions and jurisdiction of juvenile agencies; the processing and detention of juveniles; juvenile case disposition; juvenile statutes and court procedures.

14 Report Writing for Peace Officers (3) CSU*Prerequisite: None.**Recommended: English 28 with a grade of C or better or equivalent.***Lecture, 3 hours.**

The procedures and practices commonly used to gather data and prepare a variety of police reports. Emphasis will be placed upon the need to use correct spelling, sentence structure, punctuation and vocabulary in criminal justice reports to meet statistical, legal and prosecution requirements of the criminal justice system.

24 Introduction to Counseling ‡ (3) CSU*Prerequisite: None.***Lecture, 3 hours.**

Introduction to approaches of behavior modification through interviewing and counseling. An overview of the techniques available to the entry level practitioners in interviewing and counseling. Creates an awareness of advanced methods utilized by professional counselors. Traces the development of positive relationships between the client and correctional personnel.

27 Police Administration I ‡ (3) CSU*Prerequisite: None.***Lecture, 3 hours.**

A survey of police administration, organization, and functions; records, personnel, public relations, executive control, and communications.

39 Probation and Parole (3) CSU*Prerequisite: None.***Lecture, 3 hours.**

An examination of community treatment in the correctional process; contemporary probation and parole practices; and an exploration of the various community corrections agencies and employment opportunities.

42 Advanced Criminal Law ‡ (3) CSU*Prerequisite: None.***Lecture, 3 hours.**

An intensive study and interpretation of sections of the California Penal Code in constant use by police officers.

49 Narcotics and Vice Control (3) CSU*Prerequisite: None.***Lecture, 3 hours.**

This course examines the history, identification, and effects of vice and narcotic problems. It explores these problems as they exist within society, and the penal statutes and other laws that attempt to control them.

54 Interrogation ‡ (3) CSU*Prerequisite: None.***Lecture, 3 hours.**

A study of prevailing techniques of interrogation, including the following: legal aspects of interrogation; questioning of suspects; preparation of statements, admissions, declarations and confessions; the use of the polygraph as a tool of investigation.

67 Community Policing I ‡ (3) UC:CSU*Prerequisite: None.***Lecture, 3 hours.**

An in-depth exploration of the roles of the administration of justice practitioners and their agencies. The student will become aware of the interrelationships and role expectations among those agencies and the public. Principal emphasis will be placed upon the professional image of the system and the development of positive relationships between its members and the public.

75 Introduction to Corrections ‡ (3) CSU*Prerequisite: None.***Lecture, 3 hours.**

Basic course dealing with the nature of correctional work; aims and objectives of correctional administration; probation and parole; skills, knowledge and attitudes required for employment in this field; types of institutions and services; career opportunities.

84 Security Administration (3)*Prerequisite: None.***Lecture, 3 hours.**

Methods and techniques of security protection for buildings, personnel, business, industrial, technological equipment, and basic security management concepts.

306 Correctional Report Writing (3) CSU*Prerequisite: None.***Lecture, 3 hours.**

This is an introductory course emphasizing the practical aspects of gathering, organizing, and preparing written reports for correctional activities at the local, state and federal levels. It covers the techniques of communicating facts, information, and ideas in a simple, clear, and logical manner. Various reports, letters, memoranda, directives, note taking and court testimony are addressed.

308 Control and Supervision in Corrections (3) CSU*Prerequisite: None.***Lecture, 3 hours.**

This course offers an overview of the control and supervision of inmates in local, state and federal correctional institutions. The issues of control from institutional daily living through crisis situations will be introduced and discussed. The course will emphasize the role played by the offender and the correctional worker. Topics will include inmate subculture, overcrowding, inmate hostility and violence. Appropriate and inappropriate officer techniques and tactics will be discussed.

309 Correctional Interviewing and Counseling (3) CSU*Prerequisite: None.***Lecture, 3 hours.**

This course is an overview of the techniques and types of counseling and interviewing practiced in corrections work. The student will learn techniques and theories in confidence building used by correctional workers in client interviews and counseling. Correctional assessment and classification and their relevance to correctional interviewing and counseling will also be covered. This course is designed for students planning to enter the field of corrections as well as those already employed.

425 Legal Aspects of Corrections (3) CSU*Prerequisite: None.***Lecture, 3 hours.**

This course provides an analysis and historical perspective of local, state and federal laws and their impact upon correctional processes and procedures. The rights and responsibilities of incarcerated individuals is addressed. The rights and responsibilities of corrections staff and management and the potential for liabilities are emphasized. The course is designed for students who intend to become corrections professionals and for those already employed in the field.

427 Understanding Contemporary Terrorism (3) CSU

Prerequisite: None.

Lecture, 3 hours.

This course studies the methods used in terrorism against persons or property in violation of criminal laws of the United States. This course covers the techniques used by terrorists such as intimidation, coercion, or ransom from domestic/international terrorism.

433 Weapons of Mass Destruction (1)

Prerequisite: None.

Lecture, 1 hour.

This course provides an overview of terrorist threats in the United States and regulatory guidelines provided by the State of California. Threat indicators, protective measures, crime scene management, and response actions are examined in detail.

436 A History of Terrorism (3) CSU

Prerequisite: None.

Lecture, 3 hours.

Students will examine and describe the social context of terrorism as it relates to the actions of various terrorist groups, and how terrorism appears to be a war fought on a different level by a different set of rules. Students conclude the course with discussions on fighting terrorism in our country, including the potential problem of loss of civil liberties.

437 Introduction to Homeland Security (3) CSU

Prerequisite: None.

Lecture, 3 hours.

Students will examine threats to homeland security, including natural and technological disasters as well as intentional threats of domestic and international terrorism including weapons of mass destruction. Comprehensive, up to date overview of homeland security, from an all-hazards perspective

438 Theories and Psychology of Terrorism (3) CSU

Prerequisite: None.

Lecture, 3 hours.

Students examine the process of terrorism and understand those who engage in terrorism and exploring three distinct phases of the making of a terrorist becoming involved, remaining involved and leaving terrorism behind.

439 Terrorism and Counterterrorism (3) CSU

Prerequisite: None.

Lecture, 3 hours.

Students examine new growing threats including narco-terrorism, terrorist recruitment on the internet, and genomic terrorism. The students will map the analysis of terrorism in the past, present and future responses (counter-terrorism) to national and international terrorism. Finally, students consider historical defenses as well as new concepts and innovations for the prevention and mitigation of terrorist attacks.

185 Directed Study -Administration of Justice (1) CSU RPT2**285 Directed Study -****Administration of Justice (2) CSU****385 Directed Study -****Administration of Justice (3) CSU**

Prerequisite: None.

Conference, 1 hour per unit.

Allows student to pursue Directed Study in Administration of Justice on a contract basis under the direction of a supervising instructor.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

911-921-931-941 Cooperative Education - Administration of Justice (1-4) CSU

Administration of Justice is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

ADVERTISING

(See Art, Journalism and/or Marketing)

AFRICAN AMERICAN STUDIES (AFRO AM)**2 The African American in Contemporary Urban Society ‡ (3) UC:CSU☉**

Prerequisite: None.

Lecture, 3 hours.

A survey of the urbanization of the African American with emphasis on contemporary issues, public policy solutions, civil rights, and equality of opportunity. Issues include education, housing, economics (welfare, poverty, and employment), politics, justice and law enforcement, urban and community development, and family.

4 The African American in the History of the United States I ‡ (3) UC:CSU ☉

Prerequisite: None.

Lecture, 3 hours.

A survey of U.S. History from Pre-Colonial Africa, the early Colonial Era through the Civil War with special emphasis on the contribution of the African American. This course provides a background in the political and social development of the United States for the students majoring in the social sciences and for those who wish to gain a better understanding of the African American civilization. Included is a survey of the U.S. Constitution and the Declaration of Independence. This course fulfills the state graduation requirement in U.S. History.

5 The African American in the History of the United States II ‡ (3) UC:CSU ☉

Prerequisite: None.

Lecture, 3 hours.

A survey of U.S. History from the end of the Civil War to the present time with special emphasis on the social and political development of American civilization. This course fulfills the state graduation requirements in U.S. History.

20 African American Literature I ‡ (3) UC:CSU☉

(Same as English 234)

Prerequisite: None.

Lecture, 3 hours.

An analysis of the literary, social, and historical aspects of essay, novel, drama, short story and poetry written by African Americans, revealing the progression of culture in America as interpreted by African American writers who seek to define themselves and other Americans.

185 Directed Study -African American Studies (1) CSU RPT2**285 Directed Study - African American Studies (2) CSU****385 Directed Study - African American Studies (3) CSU**

Prerequisite: None.

Conference, 1 hour per unit.

Allows student to pursue Directed Study in African American Studies on a contract basis under the direction of a supervising instructor.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

911-921-931-941 Cooperative Education – African American Studies (1-4) CSU

African American Studies is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

ANATOMY

1 Introduction to Human Anatomy (4) UC:CSU ☉

(CAN BIOL 10)

Note: Not open for credit to students who have had Physiology 8 & 9.

Prerequisite: Biology 3 with a grade of C or better.

Lecture, 3 hours; laboratory, 3 hours.

A detailed study of structure and systems of the human body. Laboratory work includes dissection of fresh and preserved animal organs, anatomical models and skeletal materials, and histology. Cat dissection is available as an additional assignment or for Independent Study credit.

MAXIMUM UC CREDIT FOR ANY COMBINATION OF ANATOMY I, PHYSIOLOGY 1, 8 OR 9 IS 8 UNITS.

ANTHROPOLOGY (ANTHRO)

101 Human Biological Evolution (3) UC:CSU ☉

(CAN ANTH 2)

Prerequisite: None.

Lecture, 3 hours.

Introduction to the anthropological study of human evolution. Topics include the mechanisms of evolutionary change, genetics, human variation, and the reconstruction of human evolutionary history through an examination of the fossil record and through the use of comparative studies of our closest biological relatives, the living monkeys and apes.

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

(CAN ANTH 4)

(May be taken before Anthropology 101)

Prerequisite: None.

Lecture, 3 hours.

An examination of the diverse cultural life-ways that contribute to the greater global picture. Analogies are drawn from small-scale to large-scale societies. Topics include: culture, language and society, ethnicity, multiculturalism, kinship and marriage, religion and political organization and culture change.

103 Archaeology: Reconstructing the Human Past ‡ (3) UC:CSU ☉

Prerequisite: None.

Lecture, 3 hours.

Objectives and methods of modern archaeology; important archaeological discoveries throughout the world; contributions of archaeology toward understanding and preserving human culture.

104 Human Language and Communication ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

An introduction to linguistic anthropology, the study of language, culture, and society from an anthropological perspective. Language as a form of social interaction in which participants do things with and through everyday talk. Topics include the biological basis of communication and speech, the relationship between language and culture, the structure of language, language origins, language through time, language variation, language in social context, the ethnography of communication, non-verbal communication and writing, oral folklore and spoken art, and linguistic anthropology in the contemporary world. Special topics include pidgins and creoles, language death and revival, and the relationship between language, identity, and power

109 Gender, Sex and Culture ‡ (3) UC:CSU ☉

Prerequisite: None.

Lecture, 3 hours.

This course provides a world-wide comparison of sexuality and gender as viewed from various perspectives, including the biological/evolutionary, the cultural, the psychological, the historic, and the prehistoric, especially as they relate to the experiences of males and females in contemporary Western society.

110 Food and Culture ‡(3) CSU

(Same as Geography 45)

Prerequisite: None.

Lecture, 3 hours.

A geographical overview of the role of food in culture and the development of civilization from an anthropological perspective. The ecological, economic, social and political aspects of food production are discussed. The formation of regional cuisine is considered as well as food security, globalization of food production, over-fishing, food safety and other current issues. Optional field trips are included.

111 Laboratory in Human Biological Evolution (2) UC:CSU

Prerequisite: None.

Corequisite: Anthro 101.

Lecture, 1 hour; laboratory, 2 hours.

A hands-on laboratory experience in selected topics related to human evolution including: molecular, Mendelian, and population genetics; modern human variation; geological time and fossilization; modern primates studies; human fossil record; and forensic analysis.

121 Anthropology of Religion, Magic and Witchcraft (3) UC:CSU ☉

Prerequisite: None.

Lecture, 3 hours.

A consideration of the origins, functions and varieties of religious beliefs and practices cross-culturally. Topics include mythology, symbolism, shamanism, altered states of consciousness, magic, divination, witchcraft and the question of cults.

132 Native People of North America ‡(3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

Presents a survey of the Native Peoples living north of Mexico. Nations of the various culture areas are discussed as they existed at the time of European contact, during the historic period, and as they live in contemporary society.

141 Culture, Illness and Healing ‡(3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

Looks at the cultural, psychological, and biological aspects of the definition, causes, symptoms, and treatment of illness. Shamanism, faith healing and new age ideas are discussed. Emphasis is placed on the ritual aspects of all healing systems, including that of our own society, and on understanding illness and healing as having both cultural and biological dimensions.

185 Directed Study - Anthropology (1) CSU RPT2**285 Directed Study - Anthropology (2) CSU****385 Directed Study - Anthropology (3) CSU**

Prerequisite: None.

Conference, 1 hour per unit.

Allows student to pursue Directed Study in Anthropology on a contract basis under the direction of a supervising instructor.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

UC CREDIT FOR INDEPENDENT STUDY/DIRECTED STUDY COURSES NUMBERED 185, 285, AND 385 IN ANY DEPARTMENT IS NOT AUTOMATIC; CREDIT IS CONTINGENT ON UC CAMPUS EVALUATION AFTER APPLICATION AND ADMISSION. THESE UNITS SHOULD NOT BE USED TOWARD CALCULATION OF THE MINIMUM 60 UNITS NEEDED FOR ADMISSION TO THE UC.

911-921-931-941 Cooperative Education - Anthropology (1-4) CSU

Anthropology is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

ARCHITECTURE (ARC)**161 Introduction to Computer Aided Architectural Drawing ‡ (2) CSU**

(Formerly Architecture 36)

Prerequisite: None.

Lecture, 1 hour; laboratory, 2 hours.

Using AutoCAD software to draw houses and industrial structures.

172 Architectural Drawing I (3) CSU

(Formerly Architecture 5)

Prerequisite: None.

Lecture, 1 hour; laboratory, 5 hours.

An introduction to architecture and AutoCAD. Lectures give students a background on residential design, its conventions and symbols. During lab, AutoCAD will be used to design a small, single-story residence. A short review of basic math and orthographic projection, as well as discussion on the architectural scale and building codes are included.

173 Architectural Drawing II (3) CSU

(Formerly Architecture 6)

Prerequisite: ARC 172 with a grade of C or better.

Lecture, 1 hour; laboratory, 5 hours.

Students will develop drafting skills and fundamental understanding of buildings by preparing drawings for a wood-framed structure. Includes study of design principles, topics of architecture and architects.

221 Architectural Rendering ‡ (2) CSU

(Formerly Architecture 12)

Prerequisite: ARC 172 with a grade of C or better.

Lecture, 1 hour; laboratory, 3 hours.

In this course, students will develop their 3-dimensional modeling skills and fundamental understanding of visual theory. They will accomplish this by preparing renderings for a building designed by a notable architect. This course includes study of current and historical design principles, topics of architecture and architects.

271 Architectural Drawing III (3) CSU

(Formerly Architecture 7)

Prerequisite: ARC 172 with a grade of C or better.

Lecture, 1 hour; laboratory, 5 hours.

A study of construction methods, materials and building ordinances. Requires students to prepare detailed drawings for commercial buildings in concrete and steel, or to prepare similar drawings for related construction projects.

911-921-931-941 Cooperative Education - Architecture (1-4) CSU

Architecture is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

ARMENIAN (ARMEN)**1 Elementary Armenian I (5) UC:CSU**

Prerequisite: None.

Lecture, 5 hours.

Stresses the fundamentals of pronunciation and grammar, practical vocabulary, useful phrases, and the ability to understand, read, write, and speak simple Western Armenian. It includes basic facts of the Armenian culture and customs. Emphasis is on the spoken language.

2 Elementary Armenian II (5) UC:CSU

Prerequisite: Armenian I with a grade of C or better or equivalent skill level.

Lecture, 5 hours.

Completes the elementary Western Armenian grammar with an emphasis on oral expression. Includes the reading of simplified texts and further study of Armenian civilization.

ART

UC accepts a maximum of 12 semester units from Art 400, 501, 502, 503, and a maximum of 16 semester units from Art 201, 202, 203, 204, 205, 206, 207, 300, 301, 302, 303, 304, 305, 306, 310, 311, 312.

101 Survey of Art History I (3) UC:CSU ☼

(CAN ART 2)

Prerequisite: None.

Lecture, 3 hours.

Selected topics in the history of Western European art from the chronological period ranging from the Stone Age, Egyptian civilization, Mesopotamian civilization, the Greek (Hellenic) civilization, the Roman civilization, the Byzantine period, and the Middle Ages. The course will examine the social, economic, political and religious context of the production and use of the works of art considered. Students will learn about different art historical methodological approaches to the analysis of the material considered. Students will master art historical and artistic vocabulary, will learn to perform visual analysis of compositions of painting, sculpture and architecture.

102 Survey of Art History II (3) UC:CSU ☼

(CAN ART 4)

Prerequisite: None.

Lecture, 3 hours.

Selected topics in the history of Western European art from the Early Renaissance to the Modern Era. The course will examine the social, economic, political and religious context of the production and use of the works of art considered. Students will learn about different art historical methodological approaches to the analysis of the material considered. Students will master art historical and artistic vocabulary, will learn to perform visual analysis of compositions of painting, sculpture and architecture.

103 Art Appreciation I ‡ (3) UC:CSU ☉*Prerequisite: None.***Lecture, 3 hours.**

Appreciation and criticism of art forms and media. A cross-cultural comparative exploration of the origins and meaning of art of a wide variety of historical periods and cultures. Topics include definitions of art, use and function of art, symbolic meaning of art, art terminology, style, design, color theory, methods of production, art criticism, architectural forms.

105 History of Asian Art ‡ (3) UC:CSU*Prerequisite: None.***Lecture, 3 hours.**

An introductory survey of the arts of India, China and Japan. Discussion of technical procedures of art production, religious and philosophical influences on art and architecture, as well as the interchange of cultural influence and artistic expression. The course will examine the social, economic, political and religious context of the production and use of the works of art considered. Students will learn about different art historical methodological approaches to the analysis of the material considered. Students will master art historical and artistic vocabulary, will learn to perform visual analysis of compositions of painting, sculpture and architecture.

109 The Arts of Africa, Oceania, and Ancient America ‡ (3) UC:CSU*Prerequisite: None.***Lecture, 3 hours.**

Selected topics in the history of Non-Western art from the indigenous cultures of Africa, the islands of the South Pacific (Oceania), and pre-European contact North America and Mesoamerica. The course will examine the social, economic, political and religious context of the production and use of the works of art considered. Students will learn about different art historical methodological approaches to the analysis of the material considered. Students will master art historical and artistic vocabulary, will learn to perform visual analysis of compositions of painting, sculpture, architecture, arts of the body and other media.

112 Current Art Events ‡ (3)*Prerequisite: None.***Lecture, 3 hours.**

An enrichment of the students' academic experiences and expansion of their cultural awareness by providing opportunities to attend a wide variety of art exhibits and art events presented in the greater Los Angeles area, and to discuss these activities with guest artists and faculty.

115 History of Modern Art ‡ (3) UC:CSU ☉*Prerequisite: None.***Lecture, 3 hours.**

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.

116 History of Women and Art ‡ (3) UC:CSU*Prerequisite: None.***Lecture, 3 hours.**

The history of women's contributions to the development of visual arts, with emphasis on the Western world from the Renaissance to the present with emphasis on socio-political factors that impacted the historical role of women in the patronage and production of art. The social, economic, political and religious context of the production and use of the works of art considered. A variety of art historical methodological approaches to the analysis of the material 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.

201 Drawing I (3) UC:CSU

(CAN ART 8)

*Prerequisite: None.***Lecture, 2 hours; laboratory, 2 hours.**

A fundamental course stressing drawing as a visual language system. "Window space," light logic and perspective will be emphasized while exploring various methods and media.

202 Drawing II ‡ (3) UC:CSU*Prerequisite: Art 201 and 501.***Lecture, 2 hours; laboratory, 2 hours.**

A continuation of Art 201 into more complex problems. A broader range of media will be utilized and color and composition will be heavily emphasized. A higher standard of craft will be applied to the work.

203 Drawing III ‡ (3) UC:CSU*Prerequisite: None.***Lecture, 2 hours; laboratory, 2 hours.**

A continuation of Art 202 into more complex problems and with a higher degree of technical refinement. A broader range of media will be utilized and color, composition and conception will be heavily emphasized.

204 Life Drawing I (3) UC:CSU*Prerequisite: None. Recommended: Art 201.***Lecture, 2 hours; laboratory, 2 hours.**

The study of the human figure. Analysis of anatomy and essential structure.

205 Life Drawing II (3) UC:CSU*Prerequisite: Art 201 and 204.***Lecture, 2 hours; laboratory, 2 hours.**

The study of the human figure. Emphasis on problems in composition.

206 Life Drawing III (3) UC:CSU*Prerequisite: Art 205.***Lecture, 2 hours; laboratory, 2 hours.**

The study of the human figure. Emphasis on pictorial organization and personal expression.

207 Life Drawing IV (3) UC:CSU*Prerequisite: Art 206.***Lecture, 2 hours; laboratory, 2 hours.**

The study of the human figure. Problems in structural drawing and composition. Emphasis on expressive use of various media.

300 Introduction to Painting (3) UC:CSU*Prerequisite: Art 201 and 501.***Lecture, 2 hours; laboratory 2 hours.**

An introduction to various painting materials, media and techniques. A survey of methods both contemporary and traditional.

301 Watercolor Painting I ‡ (3) UC:CSU*Prerequisite: Art 300.***Lecture, 2 hours; laboratory, 2 hours.**

An overview of various transparent watercolor techniques with emphasis on the materials used in acquiring these skills, both contemporary and traditional.

302 Watercolor Painting II ‡ (3) UC:CSU*Prerequisite: Art 301.***Lecture, 2 hours; laboratory, 2 hours.**

A continuation of various transparent watercolor techniques with emphasis on subject matter and achieving various textural effects.

**303 Watercolor Painting III ‡
(3) UC:CSU**

Prerequisite: Art 302.

Lecture, 2 hours; laboratory, 2 hours.

A continuation of various transparent watercolor techniques with emphasis on concepts.

304 Acrylic Painting I (3) UC:CSU

Prerequisite: Art 300.

Lecture, 2 hours; laboratory, 2 hours.

An overview of acrylic painting techniques with emphasis on materials, used in acquiring these skills.

305 Acrylic Painting II (3) UC:CSU

Prerequisite: Art 304.

Lecture, 2 hours; laboratory, 2 hours.

A continuation of Acrylic Painting I with emphasis on composition.

306 Acrylic Painting III (3) UC:CSU

Prerequisite: Art 305.

Lecture, 2 hours; laboratory, 2 hours.

A continuation of Acrylic Painting II with emphasis on various concepts styles and techniques.

**310 Beginning Oil Painting ‡
(2) UC:CSU**

Prerequisite: Art 300.

Lecture, 1 hour; laboratory, 3 hours.

An overview of basic oil painting techniques and materials. Composition, color, and form are studied through a range of projects in historical context to bring the individual in touch with contemporary ideas in the field of oil painting.

**311 Intermediate Oil Painting ‡
(2) UC:CSU**

Prerequisite: Art 310.

Lecture, 1 hour; laboratory, 3 hours.

A continuation of various historical techniques in oil painting. An extension of Beginning Oil Painting focusing on a broader range of contemporary issues with an emphasis on the figure. Historical oil painting techniques are explored.

**312 Advanced Oil Painting ‡
(2) UC:CSU**

Prerequisite: Art 311.

Lecture, 1 hour; laboratory, 3 hours.

A continuation of Intermediate Oil Painting with emphasis on portraiture through various styles and techniques. A further exploration of the medium in the direction of more personal means of expression.

**400 Introduction to Printmaking ‡
(3) UC:CSU**

Prerequisite: None.

Recommended: Concurrent enrollment in Art 201 and 501.

Lecture, 1 hour; laboratory, 5 hours.

An introductory course in basic fine art printmaking processes.

401 Etching I (3) UC:CSU

Prerequisite: None.

Lecture, 1 hour; laboratory, 5 hours.

An introductory course in basic intaglio printmaking processes. Students explore a wide range of intaglio processes and techniques with emphasis on metal plate technologies and refinement of printing skills.

402 Etching II ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 1 hour; laboratory, 5 hours.

A more advanced course in intaglio processes. Students will explore a few processes in depth with particular emphasis on multi-plate, multi-color and cross-process work, while deepening their conceptual skills.

403 Lithography I ‡ (3) UC:CSU

Prerequisite: None.

Lecture 1 hour; laboratory, 5 hours.

An introductory course in basic flat bed lithographic printmaking including both metal and stone processes.

404 Lithography II ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 1 hour; laboratory, 5 hours.

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

407 Relief Printmaking I ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 1 hour; laboratory, 5 hours.

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.

408 Relief Printmaking II ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 1 hour; laboratory, 5 hours.

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.

**411 Printmaking Studio ‡
(1) UC:CSU RPT3**

Prerequisite: None.

Laboratory, 3 hours.

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

501 Beginning Two-Dimensional Design (3) UC:CSU

(CAN ART 14)

Prerequisite: None.

Lecture, 2 hours; laboratory, 2 hours.

A fundamental course presenting the elements and principles common to the visual arts, with special emphasis on application to the two-dimensional arts. Primary focus will be on compositional and color theory and practice.

502 Beginning Three-Dimensional Design ‡ (3) UC:CSU

(CAN ART 16)

Prerequisite: None.

Lecture, 2 hours; laboratory, 2 hours.

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.

600 Lettering I (3) CSU

Prerequisite: None.

Lecture, 2 hours; laboratory, 2 hours.

A study of letterforms with emphasis on their use in graphic communication. Focus is placed on style, spacing, proportion and their applied use in Graphic Design. Technical and conceptual skills in the use of typography are stressed.

604 Graphic Design I (3) CSU

Prerequisite: Art 501 and 600.

Lecture, 2 hours; laboratory, 2 hours.

Introduction to Graphic Design: Beginning studies in graphic communication combining typography and art, applying principles of beginning 2-dimensional design. Communication problems are solved graphically using the computer as a tool for presentation and production.

605 Graphic Design II (3) CSU

Prerequisite: Art 604.

Lecture, 2 hours; laboratory, 2 hours.

A continuing study of graphic communication with an introduction to the interaction between designer and client. Continued emphasis on the computer as a tool with focus on integration of QuarkXpress, Illustrator and PhotoShop.

606 Graphic Design III (3) CSU*Prerequisite:* Art 605.**Lecture, 2 hours; laboratory, 2 hours.**

Advanced exploration of graphic communication. Assignments will focus on complex problems in Graphic Design. Students portfolio make-up begins with evaluation of past and current work. Advanced software techniques are presented.

609 Advertising Design Field Work I (2)*Prerequisite:* None.**Conference, 2 hours.**

Beginning explorations of professional Graphic Design activities in a supervised study. Actual design projects from the community are brought to the classroom to be designed.

610 Advertising Design Field Work II (2)*Prerequisite:* None.**Conference, 2 hours.**

Intermediate explorations of professional Graphic Design activities in supervised study. Actual design projects from the community are brought to the classroom to be designed.

618 Advertising Photo/Graphics I ‡ (4)*Prerequisite:* None.**Lecture, 2 hours; laboratory, 4 hours.**

An introduction to photographic imaging for graphic design; an exploration of the technical, aesthetic and organizational aspects of photography for graphic communication.

619 Advertising Photo/Graphics II ‡ (4)*Prerequisite:* None.**Lecture, 2 hours; laboratory, 4 hours.**

Advanced photographic imaging for graphic design; a detailed exploration of the technical, aesthetic and organizational aspects of photography for graphic communication focusing on the computer as an essential tool.

620 Illustration I ‡ (3) CSU*Prerequisite:* Art 201 and 501.**Lecture, 2 hours; laboratory, 2 hours.**

An introduction to the design, production and concept formulation of contemporary illustration. Through a series of projects, various mediums are explored, as well as the symbolic interpretation and translation of written material into visual form.

621 Illustration II ‡ (3)*Prerequisite:* None.**Lecture, 2 hours; laboratory, 2 hours.**

A continuing study of contemporary illustration through a series of projects with a focus on nontraditional media. Additional emphasis is placed upon the individual needs and skills of each student. Preparing studies for client meetings is covered at the conclusion of the class.

626 Art Production Methods I (3) CSU*Prerequisite:* None.**Lecture, 2 hours; laboratory, 2 hours.**

Preparing art for reproduction in print media. A study of commercial printing processes, the paper industry, photo/art editing, color separation and layout preparation with emphasis on the needs of the graphic designer. The computer serves as a primary tool.

700 Introduction to Sculpture (3) UC:CSU*(CAN ART 12)**Prerequisite:* None.**Lecture, 1 hour; laboratory, 5 hours.**

Students will create three-dimensional structures while refining their artistic expression, with sensitivity to materials and concepts. The course focuses on a variety of traditional and nontraditional sculptural techniques and philosophies designed to introduce a range of sculptural expressions and media.

701 Sculpture I ‡ (3) UC:CSU*Prerequisite:* None.**Lecture, 1 hour; laboratory, 5 hours.**

Students will explore more extensive sculptural techniques, including modeling, carving, moldmaking, fabrications, environmental and conceptual art. Students will infuse meaningful content into their works using the most appropriate materials to convey their sculptural expressions. The course focuses on a variety of traditional and non-traditional sculptural techniques and philosophies, in greater depth.

702 Sculpture II ‡ (3) UC:CSU*Prerequisite:* None.**Lecture, 1 hour; laboratory, 5 hours.**

The continued study of the evolution of contemporary sculpture with emphasis on site work. This course will focus on the changing definition of sculpture, from the finished single object placed on a pedestal to a wider range of formats including sculpture as Sites or Environments viewers walk into.

708 Introduction to Ceramics (3) UC:CSU*Prerequisite:* None.*Recommended:* Art 501.**Lecture, 1 hour; laboratory, 5 hours.**

Introductory course in ceramic art. Fabrication techniques: Hand-building, wheel throwing, Relationships of surface enrichment of form: technical understanding of the behavior of clay and glazes.

709 Ceramics I (3) UC:CSU*Prerequisite:* Art 708 and 501.**Lecture, 1 hour; laboratory, 5 hours.**

Continuing course in ceramic processes with emphasis placed on ceramic design and glaze chemistry. Practice in forming processes and surface treatments, with emphasis on design. Study of physical and chemical characteristics of clay.

710 Ceramics II (3) UC:CSU*Prerequisite:* Art 709.**Lecture, 1 hour; laboratory, 5 hours.**

Continuing practice in forming processes and surface treatments with emphasis on three-dimensional design.

711 Ceramics III (3) UC:CSU*Prerequisite:* Art 710.**Lecture, 1 hour; laboratory, 5 hours.**

A course offering advanced forming techniques, history of ceramics, advanced glazing techniques, and firing kilns.

806 Fine Art Photography (3)*Prerequisite:* Photography 10.**Lecture, 1 hour; laboratory, 5 hours.**

This course explores creative approaches to photography and artistic uses of photographic materials. Emphasis is placed upon aesthetic and expressive approaches to photographs and the materials used to produce them. The course covers such topics as experimental techniques, standard and non-standard photographic materials – silver, non-silver and digital – creative expression, and historically significant examples of artistic photography.

185 Directed Study - Art (1) CSU RPT2
285 Directed Study - Art (2) CSU
385 Directed Study - Art (3) CSU

Prerequisite: None.

Conference, 1 hour per unit.

Allows students to pursue Directed Study in Art on a contract basis under the direction of a supervising instructor.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

UC CREDIT FOR INDEPENDENT STUDY/DIRECTED STUDY COURSES NUMBERED 185, 285, AND 385 IN ANY DEPARTMENT IS NOT AUTOMATIC; CREDIT IS CONTINGENT ON UC CAMPUS EVALUATION AFTER APPLICATION AND ADMISSION. THESE UNITS SHOULD NOT BE USED TOWARD CALCULATION OF THE MINIMUM 60 UNITS NEEDED FOR ADMISSION TO THE UC.

911-921-931-941 Cooperative Education - Art (1-4) CSU

Art is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

ASTRONOMY (ASTRON)

1 Elementary Astronomy (3) UC:CSU ☼

Prerequisite: None.

Lecture, 3 hours.

A non-mathematical survey of astronomy, including some history of the subject. Topics include the sun, planets, their satellites and other members of the solar system; celestial motions and coordinates as shown by the planetarium projector; elementary optics and its application of the telescope and its accessories; star systems and the constitution of stars; the classification of stars; novae, nebulae, galaxies; black holes; quasars; and the evolution of our universe. Out of class activities may include telescopic observations at star parties (outdoor observation sessions), planetarium shows or lectures.

5 Fundamentals of Astronomy Laboratory (1) UC:CSU

Prerequisite: Astronomy 1 with a grade of C or better or concurrent enrollment.

Laboratory, 3 hours.

A presentation of the methods astronomers use in order to determine the nature of the universe. This course includes working with astronomical instruments and laboratory equipment. The planetarium is used to study constellations, and telescopes are used to observe celestial objects during class sessions. Out of class activities may include telescopic observations at star parties (outdoor observation sessions), planetarium shows or lectures.

12 Scientific Visualization (3) CSU

(Same as Earth Science 10)

Prerequisite: None.

Lecture, 3 hours.

A course in communicating science content through a combination of visual and audio techniques for flat screens, planetariums, kiosks and live presentations. Topics include writing for scientific presentations, choosing the appropriate technology for a presentation, and how to bring together visual and audio elements. Considerations for ADA compliance will be included. The student will have an opportunity to prepare a short program which will include visual and audio elements for presentation in the planetarium.

911-921-931-941 Cooperative Education - Astronomy (1-4) CSU

Astronomy is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

BANKING

(See Finance)

BIOLOGY

3 Introduction to Biology (4) UC:CSU ☼

(Not open for credit to students who have had Biology 6.)

Prerequisite: None.

Lecture, 3 hours; laboratory, 3 hours.

The major principles of biology including the structure and function of cells, the reproductive process, the mechanisms of heredity, evolution, ecology and the organization of plants, animals and the human organism. Not designed to meet requirements for a major in biology at most universities. Field Trips included.

MAXIMUM UC CREDIT FOR COMBINATION OF BIOL 3 AND 25 IS ONE COURSE. NO UC CREDIT FOR BIO 3 OR 25 IF TAKEN AFTER BIO 6 OR 7.

6 General Biology I (5) UC:CSU ☼

(BIO 6 & 7=CAN BIO SEQ A)

(Biology 7 may be taken before Biology 6.)

Prerequisite: Chem 101, or 60, or 68 and Math 125 with a grade of C or better.

Note: UCLA and CSUN recommend the completion of both Biology 6 and Biology 7.

Lecture, 3 hours; laboratory, 6 hours.

This course is intended for biology majors, pre-medical, pre-dentistry, pre-pharmacy and pre-veterinary students. It deals with selected topics illustrating the major concepts in biology, including molecular structure, cell structure and physiology, bioenergetics, Mendelian genetics, molecular genetics, development, and animal form and function. Laboratory experimentation in chemical analysis, microscopy, chromatography, cell structure and physiology, genetics, development, and DNA technology.

7 General Biology II (5) UC:CSU ☼

(BIO 6 & 7=CAN BIO SEQ A)

(Biology 7 may be taken before Biology 6.)

Prerequisite: Math 125 with a grade of C or better.

Note: UCLA and CSUN recommend the completion of both Biology 6 and Biology 7 as a core program.

Lecture, 3 hours; laboratory, 6 hours.

Intended for biology majors, pre-medical, pre-dentistry, pre-pharmacy and pre-veterinary students. Deals with unifying biological concepts including evolution, biological diversity, adaptation and the biotic relations to the environment. Laboratory experimentation includes the study of plants, animals and microorganisms along with field trips to reinforce major topics.

10 Natural History I ‡ (4) UC:CSU

Prerequisite: None.

Lecture, 3 hours; laboratory and field study, 3 hours.

Introduces the basic concepts of natural history. Studies the interrelationships of land, climate, plants and man. Includes ecological problems associated with the physical and biological environment. Field trips to High Sierra, Mojave Desert, Gold Creek Field Station.

22 Marine Biology (4) UC:CSU

Prerequisite: None.

Lecture, 3 hours; laboratory, 3 hours.

The major principles of biology will be studied in relation to marine plants and animals. Intertidal, subtidal and offshore marine habitats will be investigated from an ecological perspective. Human impact on the marine environment will be studied. Field trips will be offered which may include: tide pools, Cabrillo Beach Aquarium or the Aquarium of the Pacific, Morro Bay or one of the Channel Islands. (credit not given if Oceanography 2 course has been taken).

25 Human Biology (3) UC:CSU

(Credit not allowed for Biology 25 to students who have previous credit for Biology 1, 3, 6, or 23, Botany 1.)

Prerequisite: None.

Lecture, 3 hours.

Major topics include cells; genetics; structure and function of the major human organ systems; principles of ecology; man's place in the natural world; population control; and some pathology and terminology of disease. Emphasis is on these topics as they are related to man.

MAXIMUM UC CREDIT FOR ANY COMBINATION OF BIOL 1, 3, OR 25 IS ONE COURSE. NO UC CREDIT FOR BIO 1, 3, OR 25 IF TAKEN AFTER BIO 6 OR 7.

33 Medical Terminology (3) CSU

Prerequisite: None.

Lecture, 3 hours.

Develops a comprehensive medical vocabulary applicable to all specialties of medicine, through the learning of Greek and Latin prefixes, suffixes, root words and combining forms. Training in the spelling, pronunciation and definitions of medical terms is provided.

40 The Science of Biotechnology (3) UC:CSU

Prerequisite: Biology 6 and Chem 101 with grades of C or better.

Lecture, 3 hours; laboratory, 2 hours.

This is a comprehensive introductory course to the science of biotechnology. It involves the learning of theory and offers hands-on laboratory experience. Examples of the basic tools of Biotechnology covered by this course are gel electrophoresis, transformation, purification of DNA, restriction analysis, construction of a genomic library, DNA hybridization, sequencing and fingerprinting, cloning by using PCR, Western Blot and Bioinformatics.

185 Directed Study - Biology (1) CSU RPT2**285 Directed Study - Biology (2) CSU****385 Directed Study - Biology (3) CSU**

Prerequisite: None.

Conference, 1 hour per unit.

Allows student to pursue Directed Study in Biology on a contact basis under direction and supervision of an instructor.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

UC CREDIT FOR INDEPENDENT STUDY/DIRECTED STUDY COURSES NUMBERED 185, 285, AND 385 IN ANY DEPARTMENT IS NOT AUTOMATIC; CREDIT IS CONTINGENT ON UC CAMPUS EVALUATION AFTER APPLICATION AND ADMISSION. THESE UNITS SHOULD NOT BE USED TOWARD CALCULATION OF THE MINIMUM 60 UNITS NEEDED FOR ADMISSION TO THE UC.

911-921-931-941 Cooperative Education - Biology (1-4) CSU

Biology is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

BIOLOGY, MARINE

(See Biology 22)

BROADCASTING (BRDCSTG)**1 Fundamentals of Radio and Television Broadcasting (3) CSU**

Prerequisite: None.

Lecture, 3 hours.

Basic phases of radio, television and mass media broadcasting, focusing on history, theory, and legal aspects. Different forms of broadcasting will be highlighted from network to cable to first run syndication, concluding with an overview of developing technologies such as VOD and HiDef.

Classes will include debate on the innovators and some of the issues that have arisen recently with the demise of financial interest in syndication rules, vertical integration, and the rise of broadband and its resultant changes in what constitutes a "broadcast."

3 Voice and Diction for Radio and Television (3) CSU

Prerequisite: None.

Required of all radio and television majors.

Open to others.

Lecture, 3 hours.

Training in the presentation of broadcast material. Fundamentals of good speech are combined with techniques for handling the problems unique to broadcasting, such as microphone techniques, reading for the camera, interviewing techniques, preparing continuity and transitions for commercial copy, promotional and public service announcements, news copy, weather and sports announcing. An opportunity may be provided to create programming for the campus radio station (KVCM).

5 Radio and Television Acting (3) CSU RPT1

Prerequisite: None.

Lecture, 2 hours; laboratory, 2 hours.

The basic fundamentals of acting are explored in the first semester.

Demonstration, exercises, improvisations are used to practice techniques taught.

Scenes are used in the second semester for the student to put into full practice their techniques. Greater emphasis is placed on character analysis and development of the actor for television.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

10 Radio Programming and Production (3) CSU RPT1

Prerequisite: None.

Lecture, 2 hours; laboratory, 3 hours.

Introduction, to all aspects of radio station programming and production. Included are instruction and experience in the roles of disc jockey, announcer, sportscaster, commercial announcements and news broadcaster by means of working on campus radio station KVCM.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

17 Industrial and Commercial Voice-Over Techniques ‡(3)

Prerequisite: None.

Lecture, 3 hours.

Development of the ability to narrate, dub and loop films, audio cassettes and videotaped materials for use in: industrial information units, the entertainment media, educational packages, and commercial advertising. Includes the development and use of some world dialects and an in-depth study of microphone techniques.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

21 Radio and Television Advertising and Sales (3)

Prerequisite: None.

Lecture, 3 hours.

The course examines radio & television advertising as an economic support for commercial broadcast, cable, internet, and related telecommunications media. The class will focus on audience surveys, rate structures, client, ad rep firms, and advertising agency relationships are discussed and explored. Students may have an opportunity to sell commercials on the campus radio station KVCM.

22 Radio/Television Activities (1) CSU RPT3

Prerequisite: Brdcstg 10 or 46, with a grade of C or better.

Field work, 3 hours.

Special problems in production, programming, research, and management in broadcast media. Practical assignments with Valley College broadcasting projects.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

25 Radio/TV/Film Writing (3) CSU

Prerequisite: None.

Lecture, 3 hours.

Analysis of the form and style of radio, television and film scripts and program formats. Preparation of scripts for radio, television and film.

26 TV-Film Aesthetics (3) CSU

Prerequisite: None.

Lecture, 3 hours.

This is a survey course that teaches proper terminology, and categories for analyzing television and films. Through lecture, visual presentations, and discussion, the student will learn how television programs and films are made, both technically and creatively. The student will also learn how television and film influence our social values and ethics.

28 Television Announcing I (3) CSU RPT1

Prerequisite: None.

Lecture, 3 hours.

Training in television announcing for newscasts, ad-libbing, commercials, interviewing, sportscasts, and various program performance assignments with emphasis on the development of the students individual style and personality.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

31 Advanced Voice-Over ‡(3) CSU RPT2

Prerequisite: Brdcstg 17 with a grade of C or better.

Lecture, 3 hours.

Development of skills in narration, dubbing dialogue to film/video for education, industry, commercials, entertainment media. Acquiring techniques: in audio acting for animated films, radio, and dubbing English to foreign motion pictures.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

45 Advanced Workshop for TV Acting and Directing (4) RPT1

Prerequisite: Brdcstg 5 with a grade of C or better.

Lecture, 4 hours.

The course is provided for the purpose of enlarging the background of student actors and directors through intensive concentration in advanced theories and methods that will increase the individual performance and direction sensitivity and flexibility. There is extensive use of videotape recording equipment by each student.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

46 Fundamentals of Television Production (4) CSU RPT1

Prerequisite: None.

Lecture, 3 hours; laboratory, 3 hours.

All the basic television production essentials are covered. Training is given in the function and operation of all basic television facilities, including camera, microphones, switcher, video tape recorder- editors, and lighting equipment. The direction and production of basic types of programs are taught and practiced. Students learn to handle all of the basic staff positions on the TV studio production team.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

81 Field Work I - Broadcasting ‡(1) CSU

Prerequisite: Brdcstg 10 or 46 with a grade of C or better.

Field work, 2 hours.

Allows student to pursue Field Work in Media Arts on a contract basis under the direction of a supervising instructor.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

82 Field Work II - Broadcasting ‡(2) CSU

Prerequisite: Brdcstg 10 or 46 with a grade of C or better.

Field work, 4 hours.

Allows student to pursue Field Work in Media Arts on a contract basis under the direction of a supervising instructor.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

83 Field Work III - Broadcasting ‡(3) CSU

Prerequisite: Brdcstg 10 or 46 with a grade of C or better.

Field work, 6 hours.

Allows student to pursue Field Work in Media Arts on a contract basis under the direction of a supervising instructor.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

185 Directed Study - Broadcasting (1) CSU RPT2**285 Directed Study - Broadcasting (2) CSU****385 Directed Study - Broadcasting (3) CSU**

Prerequisite: None.

Conference, 1 hour per unit.

Allows student to pursue Directed Study in Broadcasting on a contract basis under the direction of a supervising instructor.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

911-921-931-941 Cooperative Education - Broadcasting (1-4) CSU

Broadcasting is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

BUSINESS (BUS)

(For Business, see also Accounting, Cooperative Education, Finance, Law, International Business, Management, Marketing, Real Estate, and Supervision.)

1 Introduction to Business (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

The meaning and purpose of business in our society, the historical development of business, the general economic setting for business today, and a brief introduction to the following business areas: forms of business organization, manufacturing, marketing, human relations, financing, accounting, budgeting, reports, government-business relations, and the social responsibilities of businessmen.

5 Business Law I (3) UC:CSU

(CAN BUS 8)

(Business 6 may be taken before Business 5)

(Same as Law 1)

Prerequisite: None.

Lecture, 3 hours.

Essentials of the law of contracts in its application to everyday problems pertaining to business and to the individual.

Elementary safeguards regarding sales and sales contracts. Case discussion and lecture method.

UC MAXIMUM CREDIT FOR ANY COMBINATION OF BUS 5, 6, LAW 1, OR LAW 2 IS ONE COURSE.

6 Business Law II (3) UC:CSU

(Business 6 may be taken before Business 5)

(Same as Law 2)

Prerequisite: None.

Lecture, 3 hours.

Essentials of the law of agency, partnerships, corporations, property, bailments and commercial paper. Case discussion and lecture method.

UC MAXIMUM CREDIT FOR ANY COMBINATION OF BUS 5, 6, LAW 1, OR LAW 2 IS ONE COURSE.

31 Business English (3)

(Same as CAOT 31)

Prerequisite: None. Required for all incoming CAOT majors.

Lecture, 3 hours.

Thorough training in the mechanics of English; punctuation, sentence structure, paragraph writing, word usage. Effective development of the English communication skills.

32 Business Communications (3) CSU

(Same as CAOT 32)

Prerequisite: None.

Lecture, 3 hours.

Designed to achieve effective written communication in English for the transaction of business. Development of letter writing principles and techniques; enrichment of general vocabulary; practical application of English in business speech. Practical experience is given in writing business reports, the employment letter and resume, as well as the basic types of letters used in business: pleasant, routine, unpleasant, and persuasive.

38 Business Computations (3) CSU

Prerequisite: None.

This course is recommended before beginning any accounting program, or Retail Buying (Market 33)

Lecture, 3 hours.

Mathematics is applied to typical accounting, financial, and other business problems, including percentage, cash and trade discounts, merchandise turnover, depreciation, simple and compound interest, bank discounts, small loans and installment purchases, partial payments, banking practices, and pricing merchandise. Also included is the application of business graphs, insurance and investment calculations, annuities, weights and measures.

911-921-931-941 Cooperative Education - Business (1-4) CSU

Business is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

CHEMISTRY (CHEM)**51 Fundamentals of Chemistry I (5) UC:CSU**

Prerequisite: None. Recommended: Math 115.

Lecture, 5 hours; laboratory, 2 hours.

A descriptive course encompassing the basic concepts of inorganic, organic and biological chemistry. Each topic includes applications to health and environmental issues. The experimental laboratory involves the student in scientific observations, measurement, safety and proper laboratory techniques. Lecture, discussion and lab all include collaborative learning experiences. This course is appropriate for students who require a physical science course with laboratory including liberal arts, elementary education and allied health related majors. This course is not intended for students planning to enroll in Chemistry 101.

60 Introduction to General Chemistry ‡ (5) UC:CSU

Prerequisite: None. *Recommended:* Math 120.
Corequisite: Recommended: Concurrent enrollment in Math 125.

Lecture, 5 hours; laboratory, 2 hours.

Elementary chemical principles and laws with applications to industrial, environmental and health issues. The laboratory will introduce safety, scientific observation, measurement, and use of chemicals. The course will emphasize chemical stoichiometry and gas law calculations. Students who have not studied introductory college level chemistry must take this course or Chemistry 68 prior to enrollment in Chemistry 101. This course is recommended for students who have never taken a college level chemistry course. No credit given for this course if student has already passed Chemistry 68.

MAXIMUM UC CREDIT FOR CHEM 60 AND 68 COMBINED IS ONE COURSE. NO UC CREDIT FOR 60 OR 68 IF TAKEN AFTER 101.

68 Preparation for General Chemistry (5) UC:CSU

Prerequisite: None. *Recommended:* Math 120.
Corequisite: Recommended: Concurrent enrollment in Math 125.

Lecture, 5 hours; laboratory, 4 hours.

Elementary chemical principles and laws with applications to industrial, environmental and health issues. The laboratory will introduce safety, scientific observation, measurement, and use of chemicals. The course will emphasize chemical stoichiometry and gas law calculations. Students who have not studied introductory college level chemistry must take this course or Chemistry 68 prior to enrollment in Chemistry 101. This course is recommended for students who have never taken a college level chemistry course. No credit given for this course if student has already passed Chemistry 60.

MAXIMUM UC CREDIT FOR CHEM 60 AND 68 COMBINED IS ONE COURSE. NO UC CREDIT FOR 60 OR 68 IF TAKEN AFTER 101.

70 Introductory Organic and Biochemistry ‡ (4) UC:CSU

Prerequisite: Chem 51 or 60 or 68 or 101 with a grade of C or better.

Lecture, 3 hours; laboratory, 3 hours.

A descriptive course designed primarily for transfer students seeking Baccalaureate degrees and/or majoring in Dietetics and Nutrition, Nursing, Dental Hygiene, Respiratory Therapy and the related Health Sciences. Emphasis is placed on the basic concepts of organic and biochemistry as they apply to the processes that occur in living tissues.

101 General Chemistry I (5) UC:CSU (CAN CHEM 2)

Prerequisite: Chem 60 or 68 and Math 120 and 125 with grades of C or better. Students without a passing grade for Chem 60 or Chem 68 or an equivalent college-level chemistry class on their official transcript must take the Chemistry 101 Readiness Exam.

Lecture, 5 hours; laboratory, 4 hours.

A study of chemical principles and laws with emphasis on chemical calculations. This course will cover chemical stoichiometry and concentration calculations, gas laws, thermochemistry, introductory quantum mechanics, bonding, molecular geometry, unit cell calculations, and colligative properties. Laboratory work includes gravimetric analysis, titration, and observation. This course is required of majors in agriculture, bacteriology, biology, botany, chemistry, dentistry, engineering, geology, medical technology, medicine, optometry, pharmacy and physics.

102 General Chemistry II (5) UC:CSU (CAN CHEM 4)

Prerequisite: Chem 101 with a grade of C or better.

Lecture, 5 hours; laboratory, 4 hours.

A continuation of Chemistry 101. Lectures will cover kinetics, gas phase and ionic equilibria, thermodynamics, electrochemistry, nuclear chemistry, transition metals, industrial chemistry, and introductory organic nomenclature. Laboratory will include qualitative analysis of selected anions and cations, and experiments in kinetics, equilibria, electrochemistry and thermodynamics. Instrumentation will include spectrophotometry, and measurements of pH and emf.

211 Organic Chemistry for Science Majors I ‡ (5) UC:CSU

Prerequisite: Chem 101 and 102 with grades of C or better.

Lecture, 5 hours; laboratory, 4 hours.

Introduction to the topological, physical and chemical properties of carbon-containing compounds. Laboratory emphasis on the preparation, isolation, purification and analysis of organic compounds.

212 Organic Chemistry for Science Majors II ‡ (5) UC:CSU

Prerequisite: Chem 211 with a grade of C or better.

Lecture, 5 hours; laboratory, 4 hours.

A continuation of Chemistry 211 with emphasis on the structural, physical and chemical properties of organic compounds and molecules of biological importance. Laboratory emphasis on the preparation, isolation and purification of carbon-containing compounds.

221 Biochemistry for Science Majors ‡ (5) UC:CSU

Prerequisite: Chem 102 with a grade of C or better.

Lecture, 5 hours; laboratory, 4 hours.

Introduces the student to the chemistry and metabolism of biological substances. Topics include the structure and function of proteins, polynucleotides and membranes; the chemistry of amino acids, saccharides and nucleotides; and the primary anabolic and catabolic pathways of intermediary metabolism. Physiological aspects of sugar and nitrogen and the role of hormones in regulating these processes will be discussed. The chemistry of replication, transcription and translation will be discussed.

911-921-931-941 Cooperative Education - Chemistry (1-4) CSU

Chemistry is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

CHICANO STUDIES (CHICANO)

All classes are taught in English.

2 The Mexican-American in Contemporary Society ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

This course investigates the most relevant issues facing the Chicano community today. Special attention will be given to the growth and impact of political behavior and under-representation, public health concerns, educational inequities, and immigration policies affecting Mexicans, Chicanos, and other Latinos.

7 The Mexican-American in the History of the United States I (3)**UC:CSU ☉***(Same as History 43)**Prerequisite: None.***Lecture, 3 hours.**

A survey of United States history as it relates to the development of the Chicano in the United States with special emphasis on the Mexican-Americans contribution to the development of American civilization. This course covers Pre-Columbian and Spanish colonial eras, the Spanish northward advance and settlement of the present day U.S. Southwest. Topics also include the Independence Wars of Mexico and the U.S., the role and impact of the American Revolution, the U.S. Constitution, the Bill of Rights. Also, U.S. concepts: manifest destiny, American secular humanism, westward movements, the European Scientific Enlightenment period, U.S. Wars of Conquest, U.S. Treaties, American Expansionism.

8 The Mexican-American in the History of the United States II (3)**UC:CSU ☉***(Same as History 44)**Prerequisite: None.***Lecture, 3 hours.**

This course concentrates on the historical evolution of the Chicano in nineteenth and twentieth century America. Discussion centers on the participation, contributions, experiences of and by the Chicano community. Major areas include the historical socio-political, economic and educational struggles of Mexican-Americans since the mid 19th century. Topics include the Mexican American Southwest, the Post War conflict, American Expansionism, Westward Movements, U.S. Treaties of Cahuenga & Guadalupe Hidalgo, U.S. Constitution, Bill of Rights, Mexican Revolution, immigration, the Great Depression, Desegregation struggle, American Nativism, Mexican Repatriation and Deportations, WWII, Zoot-Suit Riots, Acculturation period, Bracero Program, Mexican American Labor Movement, Chicano Movement, and the Post Civil Rights Era. This course fulfills the state graduation requirement in U.S. History.

37 Chicano Literature/Literature Chicana (3) UC:CSU ☉*(Same as Spanish 46)**Prerequisite: None.***Lecture, 3 hours.**

An analysis of the literary, social, and historical aspects of works written by Mexican-American authors. Course will be conducted in English but texts may be read in either English or Spanish.

42 Contemporary Mexican Literature (3) UC:CSU ☉*(Same as Spanish 12)**Prerequisite: None.***Lecture, 3 hours.**

Lectures and discussions in English on the literature of and history of Mexico during the twentieth century, with a background of earlier works.

44 Mexican Civilization ‡ (3) UC:CSU*(Same as Spanish 16)**Prerequisite: None.***Lecture, 3 hours.**

Considers the significant elements of pre-Columbian Mexican Civilization, the impact of the Spanish domination upon the indigenous population and its influence upon mores, art, and industry. Studies in the history, literature, art, and music of Mexico as they evolved from Colonial times to the present. The impact of the Mexican revolution upon all the Americas is considered. Examines the present-day culture of the Mexican-American as influenced by his Mexican heritage and life in the United States.

CHILD DEVELOPMENT (CH DEV)

The State of California Dept. of Social Services has standardized all Child Development course numbers throughout the state. These are designated as DS in some courses.

1 Child Growth and Development (3) UC:CSU*Dept. of Social Services DS1.**Prerequisite: None.*

Recommended: Psych 1 or concurrent enrollment. Required for all Child Development majors. Required for Child Development Certificate.

Lecture, 3 hours.

The developmental theories from pre-natal through adolescence. Particular emphasis is placed on the processes through which the normal human being reaches physical, mental, social and emotional maturity. C.E. credit for nursing license renewal. G.E. credit for social science requirement

2 Early Childhood: Principles and Practices (3) CSU*Dept. of Social Services DS3.**Prerequisite: None. Required for all Child Development majors.***Lecture, 3 hours.**

A survey of preschool education and the current philosophies and practices. Nursery school programs are examined with regard to the needs of the preschool child. The role of the teacher is emphasized in relation to attitudes, philosophies, goals and values and the development of the child's personality. Participation in interaction activities and observations of preschools are required.

3 Creative Experiences for Children I (3) CSU*Dept. of Social Services DS3.**Prerequisite: None.**Recommended: Ch Dev 1 and 2.***Lecture, 3 hours.**

An interpretation of the values of creative experiences for young children. Illustrated lectures and class discussions cover such topics as dramatic play, blocks, music, rhythmic movement, art experiences, and crafts.

4 Creative Experiences for Children II (3) CSU*Dept. of Social Services DS3.**Prerequisite: None.**Recommended: Ch Dev 1 and 2.***Lecture, 3 hours.**

Examines basic principles in the planning, development and implementation of curriculum. Covers environmental design of classroom and its impact on learning. Develops teaching skills in language arts, botany, math, science, and social studies. Lecture, films, demonstrations, class discussion are methods of instruction utilized.

10 Child Health (3) CSU*Prerequisite: None.**Recommended: Ch Dev 1.***Lecture, 3 hours.**

The health protection provided by the home, school, and community. Topics include nutrition, common childhood diseases, first aid, and special health problems which relate to the pre-school child. An analysis of community referral agencies.

11 Home, School, and Community Relations (3) CSU

Dept. of Social Services DS2.

Prerequisite: None.

Required for all Child Development majors.

Lecture, 3 hours.

Surveys major educational issues, legislation, and trends affecting the family and the community. Examines the sociological, cultural, and economic influences on various patterns of family life. Identifies community resources for health, education and public welfare. C.E. credit for nursing license renewal.

22 Practicum in Child Development I (4) CSU

Prerequisite: Ch Dev 1 and 11, Ch Dev 3 or 4 and one course from Ch Dev 2, 10, 35, 42, 44, 45 or 48 with grades of C or better; health exam, TB test, and approval of fieldwork.

According to the Department of Social Services regulations, students having contact with children shall be fingerprinted and have a Child Abuse Index Check.

Lecture, 2 hours; laboratory, 6 hours.

The first semester of field experience in a child development center under the supervision of a center staff member, supplemented by the coordinator of student teaching. The student is exposed to an over-all view of the teaching situation.

23 Practicum in Child Development II (4) CSU

Prerequisite: Ch Dev 22 with grade of C or better. Health exam, TB test, and approval of field work. According to the Department of Social Services regulations, students having contact with children shall be fingerprinted and have a Child Abuse Index Check.

Lecture, 2 hours; laboratory, 6 hours.

The second semester of field experience in a child development center under the supervision of a center staff member, supplemented by the coordinator of student teaching. The student is exposed to an over-all view of the teaching situation.

30 Infant and Toddler Studies I ‡ (3) CSU

Prerequisite: Ch Dev 1 with a grade of C or better.

Lecture, 3 hours.

A survey of infant and toddler development and educational programs currently available. Principles of infant-toddler care giving, and environmental and curricular design. Opportunity for observation in the field.

31 Infant and Toddler Studies II ‡ (3) CSU

Prerequisite: Ch Dev 1 with a grade of C or better.

Lecture, 3 hours.

A survey of infant and toddler development and its relation to curriculum designing environments, assessment and intervention. Direct observations in infant and toddler programs are requirements of this course.

34 Observing and Recording Children's Behavior ‡ (3) CSU

Prerequisite: Ch Dev 1 with a grade of C or better.

Lecture, 3 hours.

Strategies and techniques for observing, recording and interpreting behavior of young children in early childhood programs. Application of this information for adapting curriculum and environment to meet the needs of children. Includes opportunity for observation in the field.

35 Fostering Literacy Development in Young Children (3) CSU

Prerequisite: None.

Lecture, 3 hours.

Development of instructional skills, curriculum, activities and environment for promoting language and literacy in young children, from birth to eight years old. Emphasis on building foundation for reading and writing using a developmentally appropriate approach.

36 Literature for Early Childhood (1) CSU

(Same as English 236)

Prerequisite: None.

Lecture, 1 hour.

A survey of literature suitable for children up to 8 years old with emphasis on techniques of selection and presentation. Story telling (with visual aids where feasible), acquaintance with literature particularly suited to the preschool child, and the early development of desirable attitudes toward reading will be stressed. Recommended for early childhood and primary grade teachers and parents.

37 Literature for School-Age Children ‡ (2) CSU

Prerequisite: None.

Lecture, 2 hours.

Survey of literature appropriate for children in school settings. Emphasis given to selection, evaluation and presentation of literature using developmental characteristics and needs of school-age children. Includes development of appropriate curriculum and materials for the classroom. Recommended for early childhood and primary school teachers and parents.

38 Administration and Supervision of Early Childhood Programs I (3) CSU

Dept. of Social Services DS6.

Prerequisite: Ch Dev 1 and 11, Ch Dev 3, or 4, and one course from Ch Dev 2, 10, 35, 42, 44, 45 or 48 or equivalent skill level with a grade of C or better.

Lecture, 3 hours.

Examines the principles and practices of nursery school organization and administration, includes the State and City regulations, administrative skills, purchasing budgets, staff selection, personnel policies and practices, record keeping, school layout, curriculum planning, menus, parent relations, community resources and enrollment building.

39 Administration and Supervision of Early Childhood Programs II ‡ (3) CSU

Prerequisite: Ch Dev 38 with a grade of C or better.

Lecture, 3 hours.

This course will include an in-depth study of a typical early childhood program, including budgeting, proposal writing, advocacy, staff relations, current research in the field, parent involvement, governing boards, professional involvement, current laws, and small business management.

42 The Child in a Diverse Society (3) CSU

Prerequisite: None.

Lecture, 3 hours.

Understanding of various cultural backgrounds, the implication and application in teaching of young children. Includes curriculum planning. Field trips are required. G.E. credit for Social Science requirement.

44 Programs for Children with Special Needs I (3) CSU

Prerequisite: Ch Dev 1 with a grade of C or better.

Lecture, 3 hours.

An introduction to the study of exceptional children, including classification and special characteristics. Field trips will be arranged to private and public special education programs. Main focus of this course will be on the exceptional child.

45 Programs for Children with Special Needs II (3) CSU

Prerequisite: None.

Recommended: Ch Dev 1 with a grade of C or better.

Lecture, 3 hours.

An introduction to the study of exceptional children including classification and special characteristics. Includes general program planning as well as relevant program modification. Field trips will be arranged to private and public special education programs.

46 School Age Programs I ‡ (3) CSU

Dept. of Social Services DS4.

Prerequisite: None.

Recommended: Ch Dev 1 with a grade of C or better.

Lecture, 3 hours.

Care of school-age children. Designed for those planning to work or working in before- and after-school programs. Curriculum development with appropriate activities to meet the developmental needs of school-age children.

47 School Age Programs II ‡ (3) CSU

Prerequisite: None.

Lecture, 3 hours.

A survey of care and guidance in school-age programs. Designed for those planning to work or working in before and/or after-school programs. Focus is on guidance, community resources, communications with home and school, and leadership.

48 Positive Guidance in Early Childhood Setting ‡ (3) CSU

Prerequisite: None.

Recommended: Ch Dev 1 with a grade of C or better.

Lecture, 3 hours.

Exploration of developmentally appropriate management techniques for children in early childhood settings.

65 Adult Supervision/Early Childhood Mentoring ‡ (2) CSU

Prerequisite: Ch Dev 1 and 11, Ch Dev 3 or 4 and one course from Ch Dev 2, 10, 35, 42, 44, 45 or 48 with a grade of C or better.

Lecture, 2 hours.

A study in methods and principles of supervising teachers and student-teachers in early childhood classrooms. Emphasis is on role of experienced early childhood educators who function as mentors to teachers while addressing needs of children, parents, and other staff.

172 Introduction to Careers in Child Development (1)

Prerequisite: None.

Lecture, 1 hour.

This course introduces students to the variety of career options available to Child Development majors. Exploration of career opportunities, required qualifications, resources available, as well as academic and professional support systems.

185 Directed Study - Child Development ‡ (1) CSU RPT2**285 Directed Study - Child Development ‡ (2) CSU****385 Directed Study - Child Development ‡ (3) CSU**

Prerequisite: None.

Prerequisite: None.

Prerequisite: None.

Conference, 1 hour per unit.

Allows students to pursue Directed Study in Child Development on a contract basis under the direction of a supervising instructor.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

911-921-931-941 Cooperative Education - Child Development (1-4) CSU

Child Development is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

CINEMA**101 Beginning Film Production Workshop (3) UC:CSU**

Prerequisite: Cinema 107 with a grade of C or better.

Co-Requisite: Cinema 107 on a contractual basis (completing it concurrently with a C or better).

Lecture, 2 hours; laboratory, 2 hours.

Comprehensive overview of all aspects of basic film theory and its application via exams, exercises, and "hands-on" exercises culminating in a 1-minute 16 mm TV-commercial.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

104 History of Documentary Films (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

A historical overview of the art and craft of documentary and non-fiction films, from the silent era to contemporary times, both American and foreign, with an emphasis on the "classics", propaganda, educational, docudrama, and avant-garde.

105 History of Motion Pictures (3) UC:CSU ☉

Prerequisite: None.

Lecture, 3 hours.

Introductory overview of the history of cinema both American and foreign, from the earliest silents to contemporary times with an emphasis on the first 75 years, via screenings, lectures, readings about the major artistic, social, economic, and technological trends.

106 The Art of Animation and Special Effects (3) CSU

Prerequisite: None.

Lecture, 3 hours.

An analytical overview of traditional and experimental animation techniques, both American and foreign, past and present, as well as special effects, including optical, mechanical, mattes, miniatures, pyrotechnics, atmospheric, make-up, digital, and others.

107 Understanding Motion Pictures (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

Analytical critical survey of motion pictures as an art form, entertainment industry, and communication medium via screenings, lectures, readings about classic and contemporary films, American and foreign, theatrical and non-theatrical.

110 Motion Picture Sound ‡(3) CSU

(Same as Media Arts 110)

Prerequisite: Cinema 101 with a grade of C or better.

Lecture, 2 hours; laboratory, 2 hours.

Intermediate course dealing with all aspects of film sound recording, mixing, and editing from theory to application, centering on learning the basic parts and functions of professional motion picture sound equipment, as well as sound techniques and aesthetics.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

111 Developing Content for Movies ‡(3) CSU

Prerequisite: None.

Lecture, 3 hours.

This survey course presents an overview of the film industry. It introduces the student to the art of creating and selling for the entertainment industry. Students will learn how to acquire, develop, create and pitch material, as well as gain an understanding of the structure of the industry.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

115 Cinematography ‡ (3) CSU

Prerequisite: Cinema 101 with a grade of C or better.

Lecture, 2 hours; laboratory, 2 hours.

Intermediate course dealing with all aspects of cinematography from theory to application, centering on learning the basic parts and functions of 16mm cameras, lenses, lighting equipment, accessories as well as cinematography techniques and aesthetics.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

117 Creative Cinematography Techniques (3) CSU

Prerequisite: Cinema 115 and 106 with grades of C or better, or concurrent enrollment.

Lecture, 2 hours; laboratory, 2 hours.

Advanced course dealing with both practical and experimental cinematography techniques centering on creative exercises relative to animation, special effects, lighting, and other production processes.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

120 Film Editing ‡ (3) CSU

(Same as Media Arts 120)

Prerequisite: Cinema 101 with a grade of C or better.

Lecture, 2 hours; laboratory, 2 hours.

Intermediate course covering theory, techniques and aesthetics of film/digital video non-linear editing. A variety of industry-oriented digital applications, with emphasis on Final Cut Pro, will be utilized in the editing exercises.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

123 Motion Picture Production Workshop I ‡ (3) CSU

Prerequisite: Cinema 107, 110, 115, and 120 with grades of C or better.

Lecture, 2 hours; laboratory, 2 hours.

Advanced course in motion picture production. Each student will be required to produce, write, direct and shoot a 16mm, film, as well as to crew for other assigned films.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

124 Motion Picture Production Workshop II ‡ (3) CSU

Prerequisite: Cinema 123 with a grade of C or better.

Lecture, 2 hours; laboratory, 2 hours.

Advanced course in film post-production. Each student will be required to edit, sound record and mix, cut negative and time answer print in order to complete the 16mm, film shot in Cinema 123.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

125 Film Production Workshop I ‡ (3) CSU RPT1

Prerequisite: Cinema 107, 110, 115, 120 with grades of C or better; only Cinema 107 may be taken concurrently on a contractual basis.

Lecture, 2 hours; laboratory, 2 hours.

Advanced course in practical filmmaking, with each student required to produce/write/direct and tech a professional 16mm PSA commercial with sound, as well as crew for other assigned films. When the course is repeated, the project may be a 16mm sync-sound production. (Cinema 123 and 124 together equal Cinema 125).

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

185 Directed Study - Cinema (1) CSU RPT2

285 Directed Study - Cinema (2) CSU 385 Directed Study - Cinema (3) CSU

Prerequisite: Approval of project.

Conference, 1 hour per unit.

Allows student to pursue Directed Study in Cinema on a contract basis under the direction of supervising faculty.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

UC CREDIT FOR INDEPENDENT STUDY/DIRECTED STUDY COURSES NUMBERED 185, 285, AND 385 IN ANY DEPARTMENT IS NOT AUTOMATIC; CREDIT IS CONTINGENT ON UC CAMPUS EVALUATION AFTER APPLICATION AND ADMISSION. THESE UNITS SHOULD NOT BE USED TOWARD CALCULATION OF THE MINIMUM 60 UNITS NEEDED FOR ADMISSION TO THE UC.

911-921-931-941 Cooperative Education - Cinema Arts (1-4) CSU

Cinema is approved for Cooperative Work Experience Education credit. (Workplace experience in Cinema integrating classroom Cinema studies; requires approval of Dept. Chair as well as Work Experience Director). See Cooperative Education, page 72, for prerequisite, course description and credit limits.

COMPUTER APPLICATIONS OFFICE TECHNOLOGIES (CAOT)

1 Computer Keyboarding I (3)

Prerequisite: None.

Lecture 2 hours, and laboratory, 3 hours.

This course instructs students in proper keyboarding techniques to accomplish mastery of the computer keyboard by touch.

Students will develop speed and accuracy and produce basic business documents such as business letters, reports, and tables using word processing software. Also offered in 3 1-unit modules.

2 Computer Keyboarding II (3) CSU

Prerequisite: None.

Recommended: CAOT 1 with a grade of C or better, or the equivalent.

Lecture, 2 hours; laboratory, 3 hours.

The course provides a thorough training in keyboarding skills and emphasizes formatting various kinds of business correspondence including business letters, envelopes, reports, business forms, and tables of increasing complexity. Continued emphasis is placed on keyboarding techniques, improving speed/accuracy on timed writings, and developing proofreading skills.

9 Computer Keyboarding Improvement (1) RPT1

Prerequisite: None.

Laboratory, 3 hours.

This course emphasizes speed and accuracy building on the keyboard using corrective drills, exercises, timed writings and diagnostic computer keyboarding software.

31 Business English (3)*(Same as Business 31)**Prerequisite: None.**Required for all incoming CAOT majors.**Recommended for Business majors.***Lecture, 3 hours.**

Students will develop competency in the fundamentals and mechanics of correct English usage, including grammar, punctuation, capitalization, number style, sentence structure, and written expression. The course emphasizes appropriate methods of expression through sentence construction, paragraph development, and functional composition.

32 Business Communications (3) CSU*(Same as Business 32)**Prerequisite: None.***Lecture, 3 hours.**

This course provides students with the opportunity to develop the ability to write effective business memorandums, letters, e-mail messages, employment documents, and short reports. The problem-solving approach to creating messages that inform, persuade, and convey negative news is stressed. Emphasis is on the concepts of effective writing style such as organization, coherence, and unity as well as principles of grammar and punctuation of written business documents. The course also includes instruction in oral communication, speaking skills, and oral presentations. Communication technology, communication across cultures, listening skills, nonverbal communication, and workplace ethics are included.

33 Records Management and Filing (2)*Prerequisite: None.***Lecture, 3 hours.**

This course presents basic principles and procedures of record storage, control, retrieval and management by manual, electronic, and micrographic methods. Students will develop speed and accuracy in indexing, filing and finding documents in such systems as alphabetic, numeric, geographic, and subject.

35 Concepts in Information Systems (3) CSU*Prerequisite: None.***Lecture, 3 hours.**

This course provides students with the basis for understanding concepts necessary for success in the Information Age. It provides an introduction to the basic concepts of an information system with emphasis on the components of the microcomputer, including the system unit and input, output, storage, and communication devices; application software; systems software; the Internet and the World Wide Web; and privacy and security issues.

37 Secretarial Accounting (3)*Prerequisite: None.***Lecture, 3 hours.**

This course is designed to acquaint students with the principles and practices of bookkeeping. Including the fundamentals of double entry bookkeeping, worksheets, and preparation of financial statements.

43 Office Procedures (3) RPT2*Prerequisite: CAOT 2 with a grade of C or better.***Lecture, 3 hours.**

This course covers the concepts and procedures used in the automated/electronic office. Human relations skills, job interviewing techniques and strategies, attitude, personality, communication skills, reinforcement of keyboarding, business English, records management skills, and professional ethics needed for success in the automated/electronic office environment will be included.

47 Applied Office Practice (2) RPT3*Prerequisite: None.***Performance, 5 hours.**

The student gains practical experience in many areas of office work by working six hours a week on campus. Special attention is given to developing the personal qualities desirable in business, the ability to follow both written and oral instructions, and confidence in handling routine office duties such as phone calls, office visitors, records management, and computer software programs.

78 Microcomputer Accounting Applications for the Electronic Office (3) CSU*Prerequisite: CAOT 37, Acctg 1, or Acctg 21 with a grade of C or better.***Lecture, 2 hours; laboratory, 3 hours.**

This course acquaints students with the use of the microcomputer for bookkeeping and accounting applications. Students receive hands-on experience in analyzing business transactions, keeping records, preparing financial statements, and generating financial management reports using an accounting software package such as QuickBooks. The course will cover sales and receivables, payables and purchases, general and end-of-period procedures, and payroll for service and merchandising businesses.

82 Microcomputer Software Survey in the Office (3) CSU*Prerequisite: None.***Lecture, 1 hour; laboratory, 4 hours.**

This course is a survey of major office applications used in Business. Word processing, graphics, spreadsheet, presentation, and database applications will be included. An integrated suite such as Microsoft Office Professional will be used. The course provides hands-on instruction to the Windows operating system and exploration of the Internet.

84 Microcomputer Office Applications: Word Processing ‡ (3) CSU RPT2*Prerequisite: None.***Lecture, 2 hour; laboratory, 3 hours.**

This course provides information and hands-on training using word processing software programs such as Microsoft Word. Students will learn beginning and advanced functions and apply their skills and knowledge to a wide variety of simple and complex documents, such as letters and memoranda, columnar tables, text tables, manuscripts, mail merges, graphics, and mailing list documents.

85 Microcomputer Office Applications: Spreadsheet (3) CSU

Prerequisite: None.

Lecture, 1 hour; laboratory, 4 hours.

This course provides a detailed study of business applications using Microsoft Excel or a similar software. Topics include the commands, formats, and functions of the software with emphasis on its use as a problem solving and financial analysis tool. Students will learn to create macros, customize toolbars and menus, and integrate Excel with other applications. Covers the creation, editing, formatting and printing of worksheets. Emphasizes preparing computerized worksheets, using formulas and functions to analyze data, prepare graphs, and simplify office accounting procedures. Fulfills CAOT AA degree and Certificate requirements.

86 Microcomputer Office Applications: Database (3) CSU

Prerequisite: None.

Lecture, 1 hour; laboratory, 4 hours.

This course covers database office applications using Microsoft Access or a similar database software. It provides an in-depth coverage of database and records design, file creation and maintenance, file search by various criteria, formatting and printing on-screen data representations, production of reports, and discussion of internet-based database operations.

92 Computer Windows Application (2) CSU

Prerequisite: None.

Lecture, 1 hour, laboratory, 2 hours.

This course prepares students to work efficiently within the Microsoft Windows operating system. Topics include windows desktop, help, file and folder management, accessing applications and communicating, and customizing a computer using the control panel.

97 Introduction to the Internet for CAOT (3) RPT1

Prerequisite: None.

Lecture, 2 hours; laboratory, 3 hours.

Provides an overview of the use of the Internet for the office professional. Students learn to use electronic mail, browsers, and search engines for the Internet to locate resources. The creation and use of web pages will be covered.

108 Presentation Design for the Office (2)

Prerequisite: None.

Lecture, 1 hour; laboratory, 2 hours.

This course provides an overview of presentation design software such as Microsoft PowerPoint. Students learn to use templates, outlines, clip art, and documents to create presentations, electronic slide shows and websites.

123 Web Applications for the Office Professional (3) RPT2

Prerequisite: None. Recommended: CAOT 97.

Lecture, 2 hours; laboratory, 2 hours.

This course is designed to provide students who are familiar with creating Web pages with ability to add dimensions of time, sound, motion, and interactivity to Web pages via a variety of authoring tools. Through lectures and demonstrations, students learn the basics of how to create multimedia presentations on workstations and for the Internet.

124 Introduction to Image Creation for the Office Professional (3) RPT1

Prerequisite: None. Recommended: CAOT 97.

Lecture, 2 hours; laboratory 2 hours.

This course will cover importing, correcting, and manipulating images using Adobe Photoshop or a similar software. The course includes scanning, planning, and modifying images that can be used for a variety of business applications.

185 Directed Study – Computer Applications Office Technology (1) RPT1**285 Directed Study – Computer Applications Office Technology (2)****385 Directed Study – Computer Applications Office Technology (3)**

Prerequisite: Computer Applications & Office Technologies major and approved project.

Conference, 1 hour per unit.

Allows students to pursue Directed Study in Computer Applications & Office Technologies on a contract basis under the direction of a supervising instructor.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

911-921-931-941 Cooperative Education – Computer Applications Office Technology (1-4)

Computer Applications & Office Technologies is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

**COMPUTER SCIENCE-
INFORMATION
TECHNOLOGY (CO SCI)**

The departments curricula are designed for the following career paths: A.S. degree candidate, transfer core to four-year colleges and universities, programming and micro-computer certificates emphasizing software in the information processing environments, and a joint interdepartmental microcomputer systems certificate with the Electronics Department for microcomputer systems technicians.

800 Practical PC (1)

Prerequisite: None.

Lecture, 1 hour; Laboratory 1 hour.

This course will familiarize the student with Windows-based PCs. Basic Microsoft Windows, installing software, naming and saving files, compressing and decompressing files, downloading files, organizing files in folders, as well as protecting files will be introduced. The class will also cover how to connect to and search the internet, and how to send e-mail with attachments. The use of application software, graphics, sound and video are introduced. Buying and expanding your PC will be taught.

801 Introduction to Computers and Their Uses (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

An overview of computers and information processing. The fundamental concepts of a computer systems hardware and software are presented, including common applications such as wordprocessing, spreadsheet, database, and presentation packages. An introduction to the Internet is provided and the societal impact of computers is critiqued.

802 Introduction to Computer Science ‡ (5) UC:CSU

Prerequisite: None.

Lecture, 4 hours; laboratory, 2 hours.

Introduction to the design, development, and implementation of computer programs using a high-level programming language. Propositional logic, predicate logic, and turning machines are introduced. The focus is on problem-solving, the design of algorithms and the software construction process. It provides an introduction to both structured, procedural programming and object-oriented programming techniques. Designed for the computer science major.

808 Programming in Visual Basic ‡ (3) UC:CSU

(CAN CSIT 6)

Prerequisite: Co Sci 802 with a grade of C or better.

Lecture, 2 hours; laboratory, 2 hours.

Fundamental principles of event-driven programming for Windows applications using Visual Basic. Proficiency in event-driven programming in Visual Basic for Windows applications using graphical user interfaces. Topics include controls and their properties, methods and events; basic data types and variables; subroutines and functions; scope; control structures; building graphical user interfaces; and interfacing with the Windows operating system. Object linking and embedding (OLE) and multimedia also are introduced.

809 Advanced Visual Basic (3) UC:CSU

Prerequisite: Co Sci 808 with a grade of C or better.

Lecture, 2 hours; laboratory, 2 hours.

Application of object-oriented programming principles to the Visual Basic programming language. Topics will include implementing advanced graphical user interfaces and database front ends, using OLE, the Windows API and DLLs, and creating ActiveX controls.

816 Introduction to Computer Architecture and Organization ‡ (3) UC:CSU

Prerequisite: Co Sci 802 with a grade of C or better.

Lecture, 2 hours; laboratory 2 hours.

The fundamentals of information representation and storage organization in computer systems. Topics include computer hardware components, typical computer architectures, instruction formats, addressing modes, stacks, the instruction execution cycle, assembly language instruction formats, compiler translation, optimizing compilers, disassemblers, loaders and simulators, system interrupts, virtual memory, boolean algebra and logic gates, combinational logic and sequential devices.

819 Information Technology and Applications in Business (4) CSU

Prerequisite: None.

Lecture, 2 hours; laboratory, 4 hours.

Covers fundamental concepts of information technology and its applications in business utilizing microcomputers and mainframes. Topics include operating systems, programming techniques, systems analysis and design, and data communication. In-depth coverage of a spreadsheet and previews of a database and word processor are applied in lab.

830 Microcomputer Application Software (3) CSU

Prerequisite: None.

Lecture, 1 hour; laboratory 4 hours.

Survey of major office applications, including word processing, spreadsheets, database management, presentation, and personal information management tools, using an integrated suite, such as Microsoft Office. Topics include use of templates and document automation, using spreadsheet formulas and functions in decision making, charting and graphing data, creation of electronic presentations, principles of database design, customization of applications using Visual Basic for Application (VBA), integration of applications, using object linking and embedding (OLE), and enabling for use on the Internet, including Hypertext Markup Language (HTML).

832 Advanced Data Structures and Introduction to Databases ‡ (3) UC:CSU

Prerequisite: Co Sci 836 with a grade of C or better.

Lecture, 3 hours.

An introduction to the organization of persistent data structures. Object-oriented design methodology is introduced and temporary data structures are reviewed. Hardware components that support persistent objects, compute and pointer based file structures, are evaluated and analyzed. Coverage includes direct file processing using various hashing methods, pointer based file processing with static and dynamic indexes, multi-key processing, the normalization process, and various database architectures.

833 Microcomputer Database Programming ‡ (3) CSU

Prerequisite: Co Sci 830 with a grade of C or better.

Lecture, 2 hours; laboratory, 2 hours.

This course focuses on relational database management systems (RDBMS) widely used by businesses for transaction processing and decision making. Coverage includes database design, queries, programming languages including Structured Query Language, Data Access Objects and Visual Basic for Applications, and integration with the Internet. An industry standard relational database application such as Microsoft Access™ is used.

834 Operating Systems (3) UC:CSU

Prerequisite: Co Sci 802 with a grade of C or better.

Lecture, 3 hours.

An introduction to a top-down conceptual view of the LINUX System divided into two parts: (1) the basic aspects of the LINUX operating system environment, and (2) the LINUX utility programs. Students will write LINUX shell scripts. It is designed for students with some computer programming experience but little or no experience using the LINUX System.

836 Introduction to Data Structures (3) UC:CSU

Prerequisite: Co Sci 839 with a grade of C or better.

Lecture, 2 hours; laboratory 2 hours.

Introduction to the study of data structures formed from primitive data types, abstract data types (including stacks, queues, lists, trees, and graphs) and their implementation and applications in program design, algorithms and complexity analysis.

839 Intermediate Programming Using C/C++ (3) UC:CSU

Prerequisite: Co Sci 802 with a grade of C or better.

Lecture, 2 hours; laboratory, 2 hours.

Principal elements of the C programming language, including functions and function prototypes, control structures, pointers, arrays, strings, structures, unions, enumerated types, file I/O, intraprogram communication, and dynamic memory allocation.

840 Object-Oriented Programming in C++ (3) UC:CSU

Prerequisite: Co Sci 839 with a grade of C or better.

Lecture, 2 hours; laboratory, 2 hours.

Principles of object-oriented design and programming using C++. Topics include the role of objects, message passing, data abstraction, inheritance, polymorphism, constructors, I/O streams, references, operator overloading, friend functions, templates, and exception handling.

850 Microcomputer Applications Software-Advanced Techniques (3) CSU

Prerequisite: Co Sci 830 with a grade of C or better.

Lecture, 1 hour; laboratory, 4 hours.

Advanced techniques and applications of word-processing, spreadsheets, database management, and presentation and authoring tools using a common Windows user interface and an integrated suite of software applications for the office, such as Microsoft Office Professional.

861 Advanced Computer Programming (3) UC:CSU

Prerequisite: Co Sci 840 with a grade of C or better.

Lecture, 2 hours; laboratory 2 hours.

Principles of object-oriented design and programming for Windows. An object-oriented language such as Visual C++ will be used to provide an understanding of designing, developing, and implementing Windows applications. The course will include coverage of standard Windows interface mechanisms, Single-Document Interface (SDI) applications, serialization, Multi-Document Interface (MDI) applications, and multimedia applications.

863 Introduction to Computer Networking ‡ (4)

Prerequisite: None.

Lecture, 3 hours; laboratory, 2 hours.

Introduction to the theory and practice of computer networking. Topics include networking theory, network design and implementation, and network management, maintenance and troubleshooting.

866 Desktop Publishing Applications (2)

Prerequisite: Co Sci 830 with a grade of C or better.

Lecture, 1 hour; laboratory, 2 hours.

The focus will be on the preparation of desktop publishing presentations and incorporation of graphics and other multimedia elements. Coverage also will include the automation of styles and other components and the distribution of presentations over an intranet or the internet. An industry standard desktop publishing software such as QuarkXpress™ will be used.

867 Microcomputer Operating Environments (2)

Prerequisite: None.

Lecture, 1 hour; laboratory 2 hours.

This course focuses on operating systems widely used by businesses for microcomputers. Coverage includes operation system concepts, start-up, operation, maintenance and shut-down. Troubleshooting also is covered. An industry standard operating system such as Microsoft Windows is used.

870 Windows and Web Database Programming (3) UC:CSU

Prerequisite: Co Sci 808 or Co Sci 895 with a grade of C or better.

Lecture, 2 hours; laboratory, 2 hours.

An introduction to programming application that use a graphical user interface (GUI) in a Windows or Web environment to access and modify data in Relational Database Management Systems (RDBMS) such as SQL Server using object-oriented programming (OOP) principles and Structured Query Language (SQL). The class will be taught using one or more of OOP programming languages currently used in the business world, such as Visual Basic.NET or C#.

884 Navigating the Internet (2) CSU

Prerequisite: None.

Lecture, 1 hour; laboratory 2 hours.

Survey of Internet services, including the world Wide Web, e-mail, FTP, Telnet, Gopher, and UseNet. Emphasis will be on using a browser to navigate and search the Web with coverage of HTML (Hypertext Markup Language).

890 Object-Oriented Programming in Java (3) UC:CSU

Prerequisite: Co Sci 839 with a grade of C or better.

Lecture, 2 hours; laboratory 2 hours.

Principles of object-oriented design and programming using Java. Additional topics include writing applets for World Wide Web pages, building Graphical User Interfaces (GUIs), including multimedia (graphics, images, animation, and sound) in Java applets, and developing multithreaded programs.

895 Programming in C# (3) UC:CSU

Prerequisite: Co Sci 802 with a grade of C or better.

Lecture, 2 hours; laboratory 2 hours.

Principles of event-driven and object-oriented design and programming using C#. Topics include the Visual Studio.NET IDE, control structures, methods, classes and objects, variable scope, lifetime, and classifications, event-handlers, arrays, strings, regular expressions, access modifiers, constructors, overloading and overriding methods, composition, data abstraction and encapsulation, inheritance and polymorphism, and graphical user interfaces.

185 Directed Study - Computer Science - Information Technology (1) CSU RPT2**285 Directed Study - Computer Science - Information Technology (2) CSU**

Prerequisite: None.

Conference, 1 hour per unit.

Provides students the opportunity to develop creative approaches to problem solving in information technology environments. *Credit limit:* A maximum of 3 units per subject in Directed Study may be taken for credit.

911-921-931-941 Cooperative Education - Computer Science Information Technology (1-4) CSU

Computer Science Information Technology is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

COOPERATIVE EDUCATION (COOP ED)

195-295-395 Work Experience, General I (1-3) CSU RPT1

Prerequisite: None.

General Cooperative Education is designed to teach students how to learn from their actual employment or career situations in an optimum way. Students also develop job skills transferable to any job.

DANCE SPECIALITIES (DNCESPC)

The following course meets the requirement for Physical Education activity, but may not be offered each semester.

490 Special Topics in Dance (1) UC:CSU RPT3

Prerequisite: None.

Activity, 3 hours.

This course introduces students to the historical and cultural origins and basic dance techniques of folk, ethnic, recreational, or other specialized dance genres. Basic steps and combinations of steps from the particular genre will be utilized to create an understanding of musical phrasing and rhythms utilized in that particular dance form. These combinations eventually will span a full range of motion, and touch upon basic movements that every individual studying dance should know and understand.

DANCE STUDIES (DANCEST)

452 Introduction to Choreography (1) UC:CSU RPT3

(Formerly: Physical Education 452, Dance 452).

Prerequisite: None.

Activity, 2 hours.

Introduction to basic principles of dance composition and choreography. Includes theory and practice using improvisation, critical analysis and implementation of the elements of space, time, and energy in student projects.

801 Modern Dance 1 (3) UC:CSU RPT1

Prerequisite: None.

Lecture, 2 hours; activity, 4 hours.

Offers in depth instruction and practice in the fundamentals of modern dance technique. Course includes theory, historical context, improvisation, and instruction in the elements of space, time, and energy.

814 Dance Production 1 ‡ (2) UC:CSU RPT3

(Formerly: Physical Education 814, Dance 814).

Prerequisite: Audition required.

Lecture, 1 hour; activity, 2 hours.

Provides instruction and laboratory experience in methods and techniques involved in producing a dance concert: including publicity, lighting, costuming, audition and performance skills, and dance critique and assessment.

819 Choreography ‡ (4) UC:CSU RPT1

(Formerly: Dance 819)

Prerequisite: Audition required.

Lecture, 2 hours; activity, 4 hours.

Study and practice of basic principles of dance composition and choreography. Includes theory and application of choreographic principles, including improvisation and critical analysis, culminating in a presentation of choreographic projects.

820 Dance Production II (4) UC:CSU

(Formerly: Physical Education 820, Dance 820).

Prerequisite: Audition required.

Lecture, 2 hours; activity, 4 hours.

Provides instruction and laboratory experience in methods and techniques involved in producing a dance concert: including rehearsal management and scheduling, choreographic applications, lighting, costuming, publicity, audition and performance skills, and dance critique and assessment.

822 Dance Rehearsals and Performance (1) UC:CSU RPT3

Prerequisite: Audition required.

Activity, 3 hours.

This course is structured rehearsal time culminating in a performance. Students participate as performers in the student dance concert.

860 Dance and Creative Movement for Educators (3) CSU

Prerequisite: None.

Lecture, 2 hours; activity, 2 hours.

Course is designed for educators and parents interested in utilizing creative movement and dance as a tool for teaching. Learn to develop your students' artistic perception, create movement experiences that enhance early childhood and academic lessons, and facilitate kinesthetic learning, awareness, and expression.

185 Directed Study - Dance (1) CSU RPT2

285 Directed Study - Dance (2) CSU 385 Directed Study - Dance (3) CSU

Prerequisite: None.

Lecture, 1 hour per unit.

This course allows students to pursue directed studies in Dance on a contract basis, under the direction of a supervising instructor.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

UC CREDIT FOR INDEPENDENT STUDY/DIRECTED STUDY COURSES NUMBERED 185 IN ANY DEPARTMENT IS NOT AUTOMATIC; CREDIT IS CONTINGENT ON UC CAMPUS EVALUATION AFTER APPLICATION AND ADMISSION. THESE UNITS SHOULD NOT BE USED TOWARD CALCULATION OF THE MINIMUM 60 UNITS NEEDED FOR ADMISSION TO THE UC.

DANCE TECHNIQUES (DANCETQ)

The following courses all meet the requirement for Physical Education activity, but all may not be offered each semester.

225 Yoga Skills (1) UC:CSU RPT3

Prerequisite: None.

Activity, 2 hours.

Provides instruction and practice in yoga skills that facilitate body conditioning, endurance, flexibility, balance, and alignment, to supplement and enhance dance technique or other fitness activities.

290 Dance for Film and Stage (1) CSU RPT3

Prerequisite: None.

Activity, 3 hours.

Introduces dancers to renowned choreographers and dancers, and provides an opportunity to experience and perform selected choreography in the genre of stage and film.

440 Social Dance (1) UC:CSU RPT3

Prerequisite: None.

Activity, 2 hours.

This course is an introduction to the basic forms of social dance, with emphasis on Salsa and Latin forms. The history, music, basic rhythms, and cultural influence of the dances are covered.

446 Tap Dance (1) UC:CSU RPT3

Prerequisite: None.

Activity, 3 hours.

Course introduces students to tap dance with an emphasis on basic steps, rhythms, combinations, terminology, musical applications, and appreciation of dance as a performing art.

460 Ballet Techniques (1) UC:USC RPT3

Prerequisite: None.

Activity, 3 hours.

This course teaches traditional ballet techniques and principles. The course will emphasize not only the correct placement and execution of a wide variety of ballet movements, but will also teach the terminology and history of the movements.

462 Modern Dance (1) UC:CSU RPT3

Prerequisite: None.

Activity, 3 hours.

This course teaches techniques, principles, terminology and the practice of modern dance. The course will emphasize not only the correct placement and execution of a wide variety of modern dance movements, but will also teach the history of the movements, and focus on the elements of space, time, and energy. Students will develop coordination, flexibility, and cardiovascular strength using various movement combinations.

463 Modern Jazz (1) UC:CSU RPT3

Prerequisite: None.

Activity, 3 hours.

This course teaches technique, principles, terminology and the practice of jazz dance. The course will emphasize not only the correct placement and execution of a wide variety of jazz movements, but will also teach various styles, and the history of the movements.

487 Hip Hop Techniques (1) UC:CSU RPT3

Prerequisite: None.

Activity, 2 hours.

This course offers instruction in the fundamentals of Hip Hop dance technique.

696 Yoga (1) UC:CSU RPT3

Prerequisite: None.

Activity, 3 hours.

Provides instruction and practice in yoga technique that facilitates body conditioning, endurance, flexibility, balance, stress reduction, and alignment, to supplement and enhance dance technique or other general fitness activities.

DEVELOPMENTAL COMMUNICATIONS (DEV COM)**22A-E Communications Laboratory (5) NDA RPT2**

Prerequisite: None.

This course is offered on a Credit/No Credit basis only. Open entry/open exit.

Lecture, 1 hour per unit.

Developmental Communications 22 is a modular, multi-media program teaching phonics, spelling, vocabulary, reading and study skills. Students may enroll sequentially in up to three units per semester. In each program, students work at their own time and pace.

A. Phonics and Spelling

B. General Vocabulary

C. College Vocabulary

D. Study Skills

E. Reading Improvement

23 Techniques of Learning (3) NDA RPT1

Prerequisite: None.

Recommended for students who score at the intermediate or advanced levels of the Reading Assessment Test.

Lecture, 3 hours.

Teaches efficient study methods and effective learning techniques. Course stresses outlining, note taking techniques, exam strategies and time management.

35 Reading I - Fundamentals (3) NDA RPT2

Prerequisite: None.

Recommended for students who score in the appropriate range on the Reading Assessment Test.

Offered on a Credit/No Credit basis.

Lecture, 3 hours.

A basic reading class designed to diagnose reading problems; improve word-attack skills; increase sight and speaking vocabularies; develop dictionary skills; and help students begin to acquire the ability to identify main ideas.

36 Reading II - Comprehension and Related Skills (6) NDA RPT1

Prerequisite: None. Recommended for students who score in the appropriate range on the Reading Assessment Test.

Lecture, 6 hours. (Course is offered as two 3 unit, 3 hour modules.)

An intermediate reading course which brings comprehension and speed up to the level required for successful and efficient mastery of college texts.

EARTH SCIENCE (EARTH)**4 Introduction to Planetary Science (3) UC:CSU**

Prerequisite: None.

Lecture, 3 hours.

A multi-disciplinary introduction to planetary science employing basic concepts of the earth sciences including the processes responsible for the formation and modification of terrestrial planets. Topics covered include remote sensing, impact craters, surface erosion, atmospheric phenomena, tectonics, volcanism and recent discoveries from unmanned and human exploration of our solar system.

10 Scientific Visualization (3) CSU

(Same as Astronomy 12)

Prerequisite: None.

Lecture, 3 hours.

A course in communicating science content through a combination of visual and audio techniques for flat screens, planetariums, kiosks and live presentations. Topics include writing for scientific presentations, choosing the appropriate technology for a presentation, and how to bring together visual and audio elements. Considerations for ADA compliance will be included. The student will have an opportunity to prepare a short program which will include visual and audio elements for presentation in the planetarium.

ECONOMICS (ECON)

1 Principles of Economics I (3)

UC:CSU ☼

(CAN ECON 4)

Prerequisite: None.

Lecture, 3 hours.

An introductory microeconomics course designed to provide the student with an understanding of basic economic principles and forces which govern the production, distribution, exchange and consumption of goods and services. Topics considered include: economic decision-making; given scarcity of resources; resource allocation; value and price theory in a free-enterprise economy; income distribution; poverty and its causes and solutions, social costs and benefits; the roles of governments in the economic system; forms of business enterprise; labor management relations. Contemporary economic developments are considered throughout the course. Meets the Social Science requirement for certification.

2 Principles of Economics II (3)

UC:CSU ☼

(CAN ECON 2)

Prerequisite: Econ 1 with a grade of C or better.

Lecture, 3 hours.

A macroeconomics course which is a continuation of the introductory principles of economics. Topics considered include: national income and employment; economic fluctuations; business cycles; money, credit and banking; public financing and taxation; monetary, fiscal, and economic stabilization policies; international trade, tariffs, payments and policies; comparative economic systems; economic growth and development. Contemporary economic developments are considered throughout the course. Meets the Social Science requirement for certification.

4 Economics for the Consumer ‡ (3)

Prerequisite: None.

Lecture, 3 hours.

An understanding of the factors and problems present in consumption, advertising, credit and installment buying, and determination of price, which can improve consumer economic decision-making and can assist in maximizing satisfaction in consumer spending. Designed to assist students in understanding the consumers role in the economic system, including the development of knowledge and skills in earning incomes, and in personal and household management, budgeting and investment. Recommended for economics, social science, business, and home economics majors.

5 Economics for the Citizen ‡ (3) CSU

Prerequisite: None.

Lecture, 3 hours.

An introductory course to provide the pre-Business or non-Business student with a single cohesive exposure to the general principles of both microeconomics and macroeconomics. Designed for students who desire to get a general perspective of the economy without the intensive and comprehensive theoretical analyses and policy applications of Economics 1 and 2. Meets the Social Science requirement for certification. A student may receive credit for Economics 5, 1, and 2 ONLY if Economics 5 is completed before Economics 1 and 2.

10 Economic History of the United States ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

A survey of the economic development of the United States emphasizing a topical approach rather than strict chronology. Consideration is given to European backgrounds and the rise of capitalism, the evolving and technological nature of the economy as applied to agriculture, industry, commerce, the labor movement, business cycles, principles of national and California state constitutional and local government structures, functioning and economic legislation, and other essential economic relationships. Recommended for economics, social science, humanities, general education, and business majors. Meets both the Social Science and American Institutions requirements for certification. This course is not acceptable as a substitute for Economics 1 or 2. This course fulfills the state requirement in U.S. History and the U.S. Constitution.

30 Comparative Economic Systems ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

Examination of how economic systems function. Differences between market and planned command economies in theory and practice, and problems of transforming a socialist economy into a market economy. Course studies cases such as former USSR, China, Mexico, England, Sweden, Poland, The Middle East.

40 History of Economic Thought (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

This course studies the history and evolution of economic ideas starting with early beginners, Adam Smith, Ricardo and continues with Marx to modern times. Course covers competing paradigms in economics, including neoclassicism, monetarism, American Institutional school, Keynesian school and others and establishes a link between evolution of economic ideas and the economic history of Europe and the United States. A special attention is paid to methodology of economics.

50 Principles of Financial Economics (3) CSU

Prerequisite: None.

Lecture, 3 hours.

Examination of financial problems of economics, including history and evolution of money, commercial banking systems, the Federal Reserve System, theories of money and monetary policies, the capital markets, mortgage markets, stock and bond markets and the international and foreign exchange markets.

185 Directed Study - Economics ‡ (1) CSU RPT2

285 Directed Study - Economics ‡ (2) CSU

385 Directed Study - Economics ‡ (3) CSU

Prerequisite: None.

Conference, 1 hour per unit.

Allows students to pursue Directed Study in Economics on a contract basis under the direction of a supervising instructor. *Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.*

UC CREDIT FOR INDEPENDENT STUDY/DIRECTED STUDY COURSES NUMBERED 185, 285, AND 385 IN ANY DEPARTMENT IS NOT AUTOMATIC; CREDIT IS CONTINGENT ON UC CAMPUS EVALUATION AFTER APPLICATION AND ADMISSION. THESE UNITS SHOULD NOT BE USED TOWARD CALCULATION OF THE MINIMUM 60 UNITS NEEDED FOR ADMISSION TO THE UC.

911-921-931-941 Cooperative Education - Economics (1-4) CSU

Economics is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

EDUCATION (EDUC)

2 Introduction to Education I (1) CSU

Prerequisite: None.

Recommended for those planning to enter elementary or secondary teaching.

Lecture, 1 hour.

General introduction to the various fields of educational thought and practice. General vocational orientation. Observation of the teacher at work.

203 Education in American Society (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

This course is designed to provide future teachers with the fundamental knowledge essential for understanding the American educational enterprise, especially issues in urban multicultural schools. Concepts and methods from the fields of sociology, philosophy, and the politics of education are used to analyze the current conditions of American schools and to evaluate selected proposals/models for reform. A minimum of 30 hours of observation of and participation in a multicultural setting is required.

911-921-931-941 Cooperative Education - Education (1-4) CSU

Education is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

ELECTRONICS (ELECTRN)

2 Introduction to Electronics (3) CSU

Prerequisite: None.

Corequisite: Electronics Technology majors enroll in Electronics 10 concurrently.

Lecture, 3 hours.

An introductory electronics course for majors and non-majors, with emphasis on hands-on activities. In addition to exploring career opportunities in the world's largest industry, electronics, students will learn to solder, read schematic drawings, identify electronics components, and construct numerous electronic circuits and projects. A great introduction to the field of electronics.

4 Fundamentals of Electronics I (4) CSU

Prerequisite: Math 115 with a grade of C or better.

This course is offered as a lecture section (Electronics 4A) and a laboratory section (Electronics 4B). Day Students: Must take Electronics 4B with 4A.

Lecture, 3 hours; laboratory, 3 hours.

The lecture provides detailed study of direct and alternating current theory and applications. Topics include, Ohms Law, energy sources, magnetism, capacitance, inductance, and transient circuits. Complex circuits are solved using Kirshhiffs Laws and Thevenins and Norton Theorems. The laboratory provides experience in applying electrical laws and test equipment to direct current circuits. Practices include component identification, breadboarding circuits, resistor and capacitor color codes and circuit measurements using the digital multimeter and the VOM.

6 Fundamentals of Electronics II (4) CSU

Prerequisite: Electrn 4A & B and Electrn 10 with a grade of C or better.

This course is offered as a lecture section (Electronics 6A) and as a laboratory section (Electronics 6B).

Lecture, 3 hours; laboratory, 3 hours.

The lecture includes the theory and practice of alternating current principles. Topics include series and parallel resonance, transformers, single and polyphase voltages, filters and an introduction to pulse wave forms. The laboratory includes experimental study discussed in lecture. Data are gathered from series-parallel tuned and untuned circuits and transformers. Extensive use is made of signal generators, digital multimeters and bridges.

10 Mathematics of Electronics I (3) CSU

Prerequisite: Math 115 with a grade of C or better.

Lecture, 3 hours.

Mathematics applied to Electronics, Engineering, Computer Science, Automation, Electromechanics. Designed for those studying modern technology. Topics cover number notation, units of measurement, fundamentals of algebra, graphical analysis, computer number systems, fractions, and graphs applied to electrical circuits.

20 Electronic Circuits I (4) CSU

Prerequisite: Electrn 4A & B with a grade of C or better.

This course is offered as a lecture section (Electronics 20A) and a laboratory section (Electronics 20B).

Lecture, 3 hours; laboratory, 3 hours.

The class reviews basic electronics and then covers theory and application of basic active semiconductor components such as diodes, transistors, FETs, and integrated circuits. The laboratory portion includes construction and measurements related to circuits studied.

22 Electronic Circuits II ‡ (4) CSU

Prerequisite: None.

This course is offered as a lecture section (Electronics 22A) and a laboratory section (Electronics 22B).

Lecture, 3 hours; laboratory, 3 hours.

The student will continue to learn operational amplifier theory with integrated circuit theory and laboratory experiments. Students will study comparitor voltage regulator theory and build and use test equipment provided in the lab.

24 Electronic Circuits III ‡ (4) CSU

Prerequisite: Electrn 20A & B with a grade of C or better.

This course is offered as a lecture section (Electronics 24A) and a laboratory section (Electronics 24B).

Lecture, 3 hours; laboratory, 3 hours.

This course emphasizes the theory and design of circuits for the control and sensing of DC and AC electric motors.

34 Introduction to Biomedical Electronics ‡ (3) CSU

Prerequisite: None.

Lecture, 3 hours.

A study of biomedical instrumentation and equipment used in the health care field, emphasizing critical care applications. The source of bioelectric potentials and their appearance in EKG and EEG equipment: stress testing, blood pressure and flow and heart sounds. Operating principles of transducers, amplifiers, patient monitors, or equipment defibrillators and pacers. The theory of shock hazards and methods of providing for patient and staff safety are emphasized.

36 Biophysical Measurements I ‡ (3) CSU

Prerequisite: Electrn 34 and 20A & B with a grade of C or better.

Corequisite: Electrn 37.

Lecture, 3 hours.

Theory, operation, test and calibration of medical equipment including patient monitors, defibrillators, electrosurgical units and pacers. Principal physiological measurements. Patient safety and hospital electrical testing procedures; establishing preventative maintenance programs.

37 Biophysical Measurements I Lab ‡ (1) CSU

Prerequisite: Electrn 34 and 20A & B with a grade of C or better.

Corequisite: Electrn 36.

Laboratory, 3 hours.

Provides practice in testing, trouble-shooting and calibrating electronic medical equipment. Patient monitor systems, pacers, defibrillators and surgical units are included. Safety evaluation procedures according to hospital standards. Use of specialized medical equipment analyzers and an exposure to the hospital environment.

38 Biophysical Measurements II ‡ (3) CSU

Prerequisite: Electrn 20A & B and 34 with a grade of C or better.

Corequisite: Electrn 39.

Lecture, 3 hours.

Theory, operation, test and calibration of medical laboratory and clinical equipment including the blood-gas analyzer, spectrophotometer, and blood pressure and ultrasound devices. Safety testing methods and establishing preventative maintenance programs.

39 Biophysical Measurements II Lab ‡ (1) CSU

Prerequisite: Electrn 20A & B and Electrn 34 with a grade of C or better.

Corequisite: Electrn 38.

Laboratory, 3 hours.

This course is an overview of the field of biomedical instrumentation and measurements in the operating room environment. It is a laboratory support class for Electronics 38. Students study maintaining, calibrating and repairing equipment in the operating room. Topics include fundamentals of lasers, anesthesia and imaging systems.

44 Communications Electronics ‡ (3)

Prerequisite: Electrn 20A & B with a grade of C or better.

Lecture, 3 hours.

Includes electronic circuit analysis relative to data/information transmittal and reception. Topics of study include electromagnetic waves, propagation, antennas, amplitude and frequency modulation. Emphasis on the analysis of AM and FM radio receivers and transmitters including methods of testing, alignment, and adjustment.

54 Computer Logic ‡ (4) CSU

Prerequisite: None.

Lecture, 3 hours; laboratory, 3 hours.

A lecture/lab course on digital electronics covering topics such as: number systems and codes, logic gates, combinational logic, encoders and decoders, multiplexers and demultiplexers, multivibrators, shift registers and counters, D/A and A/D converters, semiconductor memories, and an introduction to microprocessors. Students will construct various digital circuits and use test instruments to analyze operation.

56 Computer Circuits ‡ (3) CSU

Prerequisite: Electrn 54 with a grade of C or better.

Corequisite: Electrn 57.

Lecture, 3 hours.

A detailed study of computer circuits and their function in microcomputer systems. Input-output devices including displays, laser printers, floppy and hard disk drives, and microcomputer support techniques DOS, windows operating system and transcribing utilities will be introduced.

57 Computer Circuits Laboratory ‡ (1) CSU

Prerequisite: Electrn 54 with a grade of C or better.

Corequisite: Electrn 56.

Laboratory, 3 hours.

Laboratory involves troubleshooting elements of a microcomputer system. Fault isolation of problems in a hands-on lab environment. Includes hardware and software installations and troubleshooting.

58 Introduction to Microprocessor ‡ (4) CSU

Prerequisite: Electrn 54 with a grade of C or better.

Lecture, 3 hours; laboratory, 3 hours.

Lecture includes microprocessor hardware, architecture, and software including diagnostic routines. Use of keyboard/display to execute programs and CPU functions. Memory, hardware, logic, and bit manipulation. Lab includes input/output timing, data format, and troubleshooting. Use of the signature analyzer. Plus network environment.

64 Technical Computer Applications (4)

Prerequisite: Electrn 2 and 54 with a grade of C or better.

Lecture, 3 hours; laboratory, 3 hours.

Application of computers in electronic circuit analysis. Provides students with skills necessary to employ computer systems such as Circuit Maker and LabView.

201 Introduction to Nanotechnology (3)

Prerequisite: None.

Lecture, 3 hours.

Class focuses on nanoelectronics, with an emphasis on scanning probe microscopy, carbon nanotubes, nanowires, and molecular electronics. Other topics covered are nanofabrication techniques, lithography, self assembly, fabricating integrated circuits with molecular devices and Micro Electro Mechanical Systems (MEMS).

240 Industrial Electronics I (4)

Prerequisite: Electrn 54 with a grade of C or better.

Lecture, 3 hours; laboratory, 3 hours.

This course covers PLC hardware components and troubleshooting, programming PLC instructions, and PLC lab demonstrations.

185 Directed Study - Electronics (1) RPT 2**285 Directed Study - Electronics (2)****385 Directed Study - Electronics (3)**

Prerequisite: Electrn 20A & B and 54.

Conference, 3 hours.

Allows study of electronics on a contract basis under the direction of a supervising instructor.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

911-921-931-941 Cooperative Education - Electronics (1-4) CSU

Electronics is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

ENGINEERING, GENERAL (ENG GEN)

101 Introduction to Science, Engineering and Technology (2) UC:CSU

Prerequisite: None.

Lecture, 2 hours.

Introduces the student to the broad aspects of the engineering profession. It points out the significance of the engineering profession in society and its impact upon modern life. The practice and trends in present day engineering are presented. Stress is placed upon academic and employment opportunities within the family of engineering related occupations.

151 Materials of Engineering ‡ (3) UC:CSU

Prerequisite: Chem 101 with a grade of C or better.

Lecture, 3 hours.

An introductory course on the properties of materials; applications to engineering systems; dependency of properties on internal structure; structures and properties of metals and alloys and their response to thermal and mechanical treatments; structures and properties of non-metallic materials. Required of all Engineering majors.

243 Statics and Strength of Materials ‡ (4) CSU

Prerequisite: Math 266 and Physics 37 with grades of C or better.

Lecture, 3 hours; laboratory, 3 hours.

Examines force systems and equilibrium conditions with emphasis on engineering problems involving structures, machines, distributed forces and friction. Vector and scalar methods are used. Studies the relationships between external loads and the stresses they induce in elementary structural elements for the purpose of developing design formulae. Methods of determining deflections in beams and some elementary statically indeterminate problems are also studied.

911-921-931-941 Cooperative Education - Engineering, General (1-4) CSU

General Engineering is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

ENGINEERING, GENERAL TECHNOLOGY (EGT)

100 Introduction to Sustainable Construction Management (3) CSU

Prerequisite: None.

Lecture, 3 hours.

An introductory course in sustainable construction management, with an emphasis on blue print reading, managing budgets, construction industry software usage, safety regulations, environmentally sound materials and methods of construction, and local, state, and federal government agencies that have jurisdiction over construction projects.

103 Code and Zoning Regulations (3) CSU

Prerequisite: None.

Lecture, 3 hours.

An in depth review of California Building Codes, Disabled Access (ADA), as well as governing energy efficiency and sustainability regulations, known as Title 24, and State sponsored LEED program and certification. These regulations are the very basic foundation of every "Smart" design and construction project that is energy efficient and provides a sustainable, safe and friendly environment for its occupants.

104 Cost Analysis and Estimation (3) CSU

Prerequisite: None.

Lecture, 3 hours.

In depth discussion of the Cost Estimation process for buildings in the construction industry with emphasis on obtaining skills to accurately measure areas, volumes and related cost including labor for various materials, interpreting construction documents and specifications, determining labor and material costs based on project location and types of contracts, applying unit cost analysis during bidding process, implementing general conditions of the contract for site mobilization and determining percentages of overhead and profit in a project.

166 Shop Practice (2)

Prerequisite: None.

Lecture, 1 hour; laboratory, 2 hours.

Provides experience for the student in the use of tools and power machines so he/she may become familiar with the processes and qualities of workmanship used in industry. The course includes the use of hand tools, accurate measuring devices and the operation of production machines.

211 Elementary Engineering Graphics (3)

Prerequisite: None.

Lecture, 1 hour; laboratory, 5 hours.

Teaches student basic CADAM (R) Software Graphics using industry Lockheed Software.

212 Applied Engineering Computer Graphics I (3)

Prerequisite: None.

Lecture, 1 hour; laboratory, 5 hours.

The student is trained to use the computer graphics terminal for engineering design work including manufacturing design and development using numerical control design procedures on current graphics software.

213 Introduction to Autocad (3)

Prerequisite: None.

Lecture, 2 hours; laboratory, 4 hours.

An introduction to the use of Autocad's latest release Computer Graphics Language. This course teaches the student how to produce 2D mechanical drawings on a computer using Autocad software.

214 Advanced Autocad (3)

Prerequisite: EGT 213 with a grade of C or better.

Lecture, 2 hours; laboratory, 4 hours.

Advanced training in Autocad software concentrating on 3-D applications, simulation techniques and rendering with surfaces.

911-921-931-941 Cooperative Education - Engineering Technology, General (1-4) CSU

Engineering Technology, General is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

ENGLISH

Students are not allowed to register, either by mail or in person, for English 28, 83, 84, 85, 86, or 101 without documentation that they have met the prerequisite.

21 English Fundamentals (3) NDA

Prerequisite: English 33 with a C grade or higher or the appropriate skill level demonstrated through the placement process.

This course is offered on a Credit/No Credit basis only.

Lecture, 3 hours.

This course teaches the fundamentals of English grammar, reading, and the writing of sentences to form a basic paragraph unit leading toward a multi-paragraph composition.

28 Intermediate Reading and Composition (3)

Prerequisite: English 21 with a grade of C or better or appropriate skill level demonstrated through the English placement process. Cannot be taken for P/NP.

Lecture, 3 hours.

Much practice in writing paragraphs and short essays. Introduction to the critical reading of non-fiction prose. Designed to prepare students for English 101. Students who do not score sufficiently high on the placement test in English are required to take this course before attempting English 101.

30 Reading for Pleasure and Profit (3) NDA

Prerequisite: None.

Lecture, 3 hours

This course helps students increase their pleasure and skill reading works of recognized merit. Highly recommended for students who need practice reading and writing before taking English 28.

33 Basic Vocabulary (3) NDA

Prerequisite: None. *This course is offered on a Pass/No Pass basis only.*

Lecture, 3 hours.

This course enlarges and enriches a student's vocabulary through reading and the study of word meanings, structure, and origins. It develops a student's ability to spell, read aloud, paraphrase, summarize, respond to readings, and use context as well as dictionaries and other tools for vocabulary building.

67 Writing Laboratory (0.5) NDA RPT3

Prerequisite: None.

Offered on a Pass/No Pass basis only.

Laboratory, 1 hour.

Students will improve their writing skills through one-to-one tutoring conferences, writing workshops, and computer instruction with assistance from an instructor and tutors. Students will develop their understanding of purpose, audience, invention, drafting, revision, and editing. Students will also focus on improving punctuation, mechanics, and grammar. This class may be taken by students at any level of English.

68 Reading Laboratory (0.5) NDA RPT3

Prerequisite: None.

Offered on a Pass/No Pass basis only.

Laboratory, 1 hour.

Students will improve their reading comprehension and develop critical reading skills through individual help from instructor, one-to-one tutoring conferences, group workshops, and computer instruction by practicing previewing, paraphrasing, drawing inferences and summarizing a chosen text. This course can complement any other class that has assigned readings, or it can be taken independently.

69 Writing and Revising on the Computer (1) RPT3

Prerequisite: None.

Offered on a Pass/No Pass basis only.

Laboratory, 2 hours.

Individual help by instructor and tutors with using computers to write. Students practice editing, formatting, drafting, researching on the Internet, and developing resumes. Students will learn basic word processing skills as well as general guidelines for navigating the Internet. Complements any class with a writing component or can be taken independently.

75 Methods for Tutoring Writing (1)

Prerequisite: None.

Lecture, 1 hour.

Students preparing to work in a Writing Center will examine pedagogical approaches to peer tutoring in Writing Centers and engage in active sharing of their own writing process. Students will learn how to apply different tutoring styles and strategies for teaching the writing process, organization, grammar and mechanics. Students will also examine writing across the disciplines in various genres and engage in self-reflexive and meta-cognitive thinking about the practice of peer tutoring for writing.

80 Introduction to English as a Second Language: Reading Skills (3) NDA

Prerequisite: None.

Lecture, 3 hours.

This course is intended for students with English as a Second Language. It stresses the development of skills leading to college level reading capacity at a beginning/high-beginning level.

82 Introduction to College English as a Second Language (5) NDA

Prerequisite: None.

Lecture, 5 hours.

This course introduces students to English pronunciation patterns, sentence patterns, basic reading, and communication skills at a high-beginning/low-intermediate level.

83 College Conversational English as a Second Language (3) NDA RPT 1

Prerequisite: None. *Recommended:* Speech 161 and 64.

Lecture, 3 hours.

This course is designed for students at an elementary level in listening, speaking, reading, and writing English at a low-intermediate/intermediate level.

101 College Reading and Composition I (3) UC:CSU ☼

(CAN ENGL 2)

Prerequisite: English 28 or English 363 with a grade of C or better or appropriate skill level demonstrated through the English placement process.

Cannot be taken for P/NP.

Lecture, 3 hours.

This course teaches students to write college-level essays in response to reading and analyzing college-level texts. The course focuses equally on writing and critical reading, and students will write at least 8700 words. Students will learn to prepare a substantial research paper in which they accurately, clearly, and coherently synthesize ideas and information from a variety of sources and points of view.

102 College Reading and Composition II (3) UC:CSU ☼

(CAN ENGL 4)

Prerequisite: English 101 with a grade of C or better.

Lecture, 3 hours.

A continuation composition course designed to develop reading and writing skills through extensive readings in the short story, the novel, poetry, and drama; and through intensive practice in writing the analytical and critical essay.

103 Critical Thinking and English Composition (3) UC:CSU ☉

Prerequisite: English 101 with a grade of C or better.

Lecture, 3 hours.

This course stresses the development of critical thinking skills and their application to reading written argumentation and analysis.

ENGLISH 103 AND 103H COMBINED, MAXIMUM UC CREDIT IS ONE COURSE.

105 Introduction to Language and Linguistics (3) UC:CSU

(Same as Linguistics 1)

Prerequisite: None.

Lecture, 3 hours.

Summary of what is known about human language: an introduction to the scientific study of language, its history and structure; language in its social and cultural setting; language, the learning tool.

124 Short Story Writing I ‡ (3) UC:CSU

Prerequisite: English 101 with a grade of C or better.

Lecture, 3 hours.

Develops understanding of and skill in writing the traditional short story. Emphasizes discussion of students writing with some discussion of works of major writers. Also deals with marketing and preparing manuscripts for submission to publishers. Students may submit manuscripts to the college literary magazine.

125 Short Story Writing II ‡ (3) UC:CSU RPT2

Prerequisite: English 101 with a grade of C or better.

Lecture, 3 hours.

A continuation of English 124 with opportunity to write longer and more experimental fiction.

127 Creative Writing (3) UC:CSU RPT3

Prerequisite: English 101 and 102 with grades of C or better.

Lecture, 3 hours.

A writing workshop for students interested in writing fiction and poetry. Students present multicopied work to class for criticism. Includes lectures, demonstrations, and conferences with instructor.

NOTE: UC allows a maximum of 6 transferable units for this course.

ENG 127 REPEATABLE, BUT MAXIMUM UC CREDIT IS 6 UNITS.

203 World Literature I ‡ (3) UC:CSU

Prerequisite: English 101 with a grade of C or better.

Lecture, 3 hours.

Surveys world literature in translation: representative selections from Oriental literature, the Bible, Greek and Latin literature, and European masterpieces of the Middle Ages and Renaissance.

204 World Literature II ‡ (3) UC:CSU

Prerequisite: English 101 with a grade of C or better.

Lecture, 3 hours.

Surveys world literature in translation from the Renaissance to the present: selections from representative masterpieces of Continental literature - French, German, Scandinavian, Russian, and Spanish.

205 English Literature I ‡ (3) UC:CSU ☉

(ENG 205 & 206 = CAN ENG SEQ B)

Prerequisite: English 101 and English 102 with grades of C or better.

Lecture, 3 hours.

Surveys British literature from the eighth through the eighteenth centuries, emphasizing major figures and works.

206 English Literature II ‡ (3) UC:CSU ☉

(ENG 205 & 206 = CAN ENG SEQ B)

Prerequisite: English 101 and English 102 with grades of C or better.

Lecture, 3 hours.

Surveys British literature from the late eighteenth century to the present, emphasizing major writers and works.

207 American Literature I ‡ (3) UC:CSU ☉

Prerequisite: English 101 and English 102 with grades of C or better.

Lecture, 3 hours.

Surveys American literature from 1608 until the Civil War, emphasizing major writers and works.

208 American Literature II ‡ (3) UC:CSU ☉

Prerequisite: English 101 and English 102 with grades of C or better.

Lecture, 3 hours.

Surveys American literature from the Civil War to the present, emphasizing major writers and works.

211 Fiction ‡ (3) UC:CSU RPT1

Prerequisite: English 101 with a grade of C or better.

Lecture, 3 hours.

Studies selected great short stories and novels to increase students understanding and appreciation of prose fiction; stresses critical reading and writing.

212 Poetry ‡ (3) UC:CSU RPT1

Prerequisite: English 101 with a grade of C or better.

Lecture, 3 hours.

Studies of selected American, British, and Continental poems to increase students understanding and appreciation of poetic forms and their historical development. Stresses critical reading and writing.

213 Dramatic Literature ‡ (3) UC:CSU

(Same as Theater 125)

Prerequisite: English 101 with a grade of C or better.

Lecture, 3 hours.

Studies plays from Sophocles to important twentieth century dramatists. Stresses critical reading and composition.

215 Shakespeare I ‡ (3) UC:CSU

Prerequisite: English 101 with a grade of C or better.

Recommended: English 102 and 205.

Lecture, 3 hours.

Studies selected poems and ten representative plays. Consideration of Elizabethan and Jacobean life and letters in relation to Shakespeare's work.

234 African-American Literature I (3) UC:CSU ☉

(Same as African American Studies 20)

Prerequisite: None.

Lecture, 3 hours.

Analyzes the literary, social and historical aspects of essay, novel, drama, short story and poetry written by African-Americans, revealing the progression of culture in America as interpreted by African-American writers who seek to define themselves and other Americans.

236 Children's Literature for the Preschool Child (1) CSU*(Same as Child Development 36)**Prerequisite: None.***Lecture, 1 hour.**

Surveys literature suitable for children ages 2-8, emphasizing techniques of selection and presentation of such literature.

Storytelling (with visual aids where feasible), acquaintance with literature particularly suited to the preschool child, and the early development of desirable attitudes toward reading will be stressed.

Recommended for prospective nursery school, kindergarten, and primary grade teachers and parents.

239 Women in Literature (3) UC:CSU*Prerequisite: English 101 with a grade of C or better.***Lecture, 3 hours.**

This course offers an examination of literature by and about women from various cultures. While the course's primary focus is on the numerous roles and images women have been assigned in society, by extension and comparison, the roles of men are examined as well. The women studied will come from several literary genres and will include representative selections written by women.

250 Mythology and Literature ‡ (3) UC:CSU*Prerequisite: English 101 with a grade of C or better.***Lecture, 3 hours.**

Introduces the mythology of Western and Middle Eastern civilizations. Treats these Western and Middle Eastern myths as they appear in epics, plays, and other literature, both ancient and modern, and shows how myths relate to folk stories, dreams, and fantasy through powerful symbols shared by peoples all over the world.

252 The English Bible as Literature ‡ (3) UC:CSU*Prerequisite: English 101 with a grade of C or better.***Lecture, 3 hours.**

Studies the Old and New Testaments with the King James version as the basic text.

253 Opera as Literature (3) UC:CSU*Prerequisite: English 101 with a grade of C or better.***Lecture, 3 hours.**

Participants will analyze recognized masterpieces by Verdi, Puccini, Mozart, Wagner, Britten, Bizet, et.al., through study of each opera's literary source(s) and the way the literary elements reappear as dramatic and musical elements.

361 ESL for Academic Purposes I (6) NDA*Prerequisite: English 83 with a grade of C or better appropriate skills level demonstrated through the English placement process.***Lecture, 5 hours; Lab 2 hours.**

This course is for students who are pursuing an academic or professional degree program. Students will read and discuss literature, news and academic texts, and learn how to gather information, give complete responses, and express themselves in complete sentences at an intermediate/high-intermediate level.

362 ESL for Academic Purposes II (6) NDA*Prerequisite: English 361 with a grade of C or better or appropriate skills level demonstrated through the English placement process***Lecture, 5 hours; Lab, 2 hours.**

This course is for students who are pursuing an academic or professional degree program. Students will read novels and academic texts, conduct research, write essays and be introduced to sources of information at a high-intermediate/low-advanced level.

363 ESL for Academic Purposes III (6) CSU*Prerequisite: English 362 with a grade of C or better or appropriate skills level demonstrated through the English placement process. English 363 now meets the competency requirement***Lecture, 5 hours; Lab, 2 hours.**

This course is for students who are pursuing an academic or professional degree program. Students will read novels and academic texts, conduct research, write essays, and be introduced to sources of information.

185 Directed Study - English (1) CSU RPT2**285 Directed Study - English (2) CSU
385 Directed Study - English (3) CSU***Prerequisite: None.***Conference, 1 hour per unit.**

Allows students to pursue Directed Study in English on a contract basis under the direction of a supervising instructor.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

UC CREDIT FOR INDEPENDENT STUDY/DIRECTED STUDY COURSES NUMBERED 185, 285, AND 385 IN ANY DEPARTMENT IS NOT AUTOMATIC; CREDIT IS CONTINGENT ON UC CAMPUS EVALUATION AFTER APPLICATION AND ADMISSION. THESE UNITS SHOULD NOT BE USED TOWARD CALCULATION OF THE MINIMUM 60 UNITS NEEDED FOR ADMISSION TO THE UC.

911-921-931-941 Cooperative Education - English (1-4) CSU

English is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

ENVIRONMENTAL SCIENCE (ENV SCI)**1 The Human Environment: Physical Processes (3) UC:CSU ☉***Prerequisite: None.***Lecture, 3 hours.**

An introduction to scientific analysis of real-world challenges and issues related to physical processes in the environment. The course environmental systems and cycles, uneven consumption and degradation of global resources, sustainability, climate change, conventional and alternative energy sources, waste treatment, recycling, and the future of food. Practical solutions employing an interdisciplinary approach and field trips are emphasized. This course satisfies in part the natural science requirement for general education.

2 The Human Environment: Biological Processes Lecture (3) UC:CSU*Prerequisite: None.***Lecture, 3 hours.**

NOTE: This course is especially designed to fulfill the Natural Science requirement for non-majors, when taken with Environmental Science 19 Biological Processes Lab. Study humans' effect on the quality of their air, water, food and personal health by surveying our environmental problems, their impact on biological life support systems and exploration of solutions.

7 Introduction to Environmental Geology (3) UC:CSU*(Same as Geology 10)**Prerequisite: None.***Lecture, 3 hours.**

This course examines how geologic processes and hazards influence human activities and the environment. The topics covered include geologic hazards such as earthquakes, volcanic eruptions, and tsunamis; mineral resources, groundwater, pollution, and current environmental and regulatory public policy planning. A field trip is offered for the course.

19 The Human Environment: Biological Processes Lab (1) UC:CSU

Prerequisite: None.

Corequisite: Environmental Science 2:

Biological Processes Lecture.

Laboratory, 3 hours.

The lab component of Environmental Science 2 consisting of a "hands on" approach to the study of environmental problems, their impact and exploration of solutions.

22 The Human Environment: Physical Processes Lab (2) UC:CSU

Prerequisite: None.

Corequisite: Environmental Science 1.

Lecture, 1 hour, laboratory 2 hours.

An introduction to processes in the physical environment through laboratory exercises and field observation using the scientific method. Topics include water, soils, vegetation, landforms, atmospheric phenomena, climate change, energy, food, resources, pollution, waste treatment and remediation. The use of monitoring equipment and computer data analysis is emphasized.

ENVIRONMENTAL STUDIES (ENVSTDS)

101 Introduction to Environmental Studies (3) CSU

Prerequisite: None.

Lecture, 3 hours.

This course provides an interdisciplinary overview from a social science perspective of the local and global impacts of humans on the natural environment over human history. Topics include the growth and geographic expansion of human population, the transformation of earth's ecosystems by humans, exploitation of natural resources, and sustainable practices and policies. The course focuses on the critical analysis of current environmental problems and the evaluation of alternatives and solutions that contribute to a sustainable world. This course satisfies the Social and Behavioral Sciences requirement for General Education.

FAMILY AND CONSUMER STUDIES (FAM &CS)

1 Professional Career Opportunities (2) CSU

Prerequisite: None.

Lecture, 2 hours.

Explores many career options working with children and youth. The career ladder concept is applied and entry level jobs, marketable skills and employment trends identified. Lecture, guest speakers and class discussions are methods of instruction utilized.

31 Marriage and Family Life (3) UC:CSU ‡

(CAN H EC 12)

(Same as Sociology 12)

Prerequisite: None.

Required for all Child Development majors.

Lecture, 3 hours.

Examines contemporary issues in family living in terms of the students self-understanding and personal objectives for establishing family relations. The shifting patterns of family styles and new definitions and interpretations of marital values, attitudes, and goals are discussed against the background of technological and social change. Areas covered include mate selection, alternatives to marriage, traditional marriage patterns, love, sexual expression, the women's movement, conflict, divorce, and parenthood.

911-921-931-941 Cooperative Education – Family and Consumer Studies (1-4) CSU

Family and Consumer Studies is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

FINANCE

2 Investments (3) CSU

Prerequisite: None.

Lecture, 3 hours.

Analysis of stocks and bonds, mutual funds, real estate trusts, commodities and related investments. Functions and operations of the investment market.

8 Personal Finance and Investments (3) CSU

Prerequisite: None.

Lecture, 3 hours.

Consists of lectures, discussions, and practice with regard to ones personal financial activities. Particular attention is given to consumer credit; life and property insurance; savings plans; taxes; retirement plans; estate transfer; securities and miscellaneous investments.

911-921-931-941 Cooperative Education - Finance (1-4) CSU

Finance is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

FIRE TECHNOLOGY (FIRETEK)

27 Wildland Firefighter (4) CSU

Prerequisite: None.

Lecture, 4 hours; Laboratory, 0.5 hours.

This course prepares the student for entry level jobs in Wildland Firefighting. It combines classroom instruction with hands-on training. A certificate of completion is awarded.

30 Fire Marshal Certification: Instructor 1A (2.25) CSU

Prerequisite: None.

Lecture, 2.25 hours.

This course introduces fire service training methods to firefighters. Emphasis is placed on using occupational analysis, identifying training needs, and training others to perform manipulative skills. This is the first course in a series that leads to becoming a State Fire Marshal, Fire Instructor certification.

31 Fire Marshal Certification: Instructor 1B (2.25) CSU

Prerequisite: Firetek 30 with a grade of C or better.

Lecture, 2.25 hours.

This course introduces advanced fire service training methods to firefighters. Emphasis is placed on using occupational analysis, identifying training needs, and training others to perform manipulative skills. This course is the second in a series that leads to State Fire Marshal Instructor certification. This course enables students to obtain State Fire Marshal Fire Instructor status.

**40 Fire Marshal Certification:
Fire Prevention 1A (2.25) CSU**

Prerequisite: None.

Lecture, 2.25 hours.

This course provides the student with knowledge on how to conduct basic fire prevention inspections. This is a first course in a series that leads to State Fire Marshal certification as Fire Prevention Officer.

**41 Fire Marshal Certification:
Fire Prevention 1B (2.25) CSU**

Prerequisite: Firetek 40 with a grade of C or better.

Lecture, 2.25 hours.

This course provides the student with information on extinguishment systems, responsibility and authority for inspections, handling and storage of materials, and life safety considerations. This is the second course in a series that leads to State Fire Marshal certification as a Fire Prevention Officer.

**60 State Fire Marshal: Command 1A
(2.25) CSU**

Prerequisite: None.

Lecture, 2.25 hours.

This course provides the student with an introduction to organizational structure and basic communication and leadership skills for fire personnel. This is the first course in a series that leads to the certified fire officer designation by the California State Fire Marshal.

**61 Fire Marshal Certification:
Command 1B (2.25) CSU**

Prerequisite: Firetek 60 with a grade of C or better.

Lecture, 2.25 hours.

This course provides the student with information and direction for initial operations of multi-casualty, hazardous materials, and wildland fire incidents. This course is in a series that leads to the certified fire officer designation by the California State Fire Marshal.

**96 Emergency Medical Technician I
(8) CSU**

Prerequisite: Students must present to the instructor either a BLS for the Healthcare Provider from the American Heart Association or CPR for the Professional Rescuer from the American Red Cross prior to the beginning of the class or no later than the first examination.

Lecture, 6 hours; Laboratory, 4 hours.

This course is designed to provide a basis for gaining EMT-Basic certification. Through adherence to the D.O.T. (Department of Transportation) Basic Life Support Curriculum, the student will be given the opportunity to develop the necessary knowledge, skills and abilities required to successfully pass the National Registry EMT-Basic certification examination. Upon successful completion of said certification examination, an EMT-Basic may gain employment and/or progress to paramedic training. With few exceptions, Fire Tech 96 is conducted at the basic life support level.

**97 Emergency Medical Technician I-
Refresher (2)**

Prerequisite: Firetek 96 with a grade of C or better.

Lecture, 1.5 hours; laboratory 1.5 hours.

This is a refresher course for Emergency Medical Technician [EMT]- Basic. Refresher course includes adult, child, and infant CPR and obstructed airway maneuvers. Basic EMT skills will be reviewed and tested for competency. Recertification is mandated by the state every two years [24 hours].

**201 Fire Protection Organization ‡ (3)
CSU**

Prerequisite: None.

Lecture, 3 hours.

An introduction to the fire service and fire protection; careers in fire departments and related fields. History of fire protection, fire loss causes, public and private protection services. Fire department organization, fire fighting tactics, fire prevention, tools, equipment, apparatus, alarm systems and water systems. This course includes field trips.

**202 Fire Prevention Technology (3)
CSU**

Prerequisite: None.

Lecture, 3 hours.

Making effective, complete and legal inspections by knowing fire prevention concepts. These concepts include history, organization, laws, fire causes, procedures, techniques, enforcement and records. Hazards by occupancy, fire protection equipment, fire investigation, public education and special problems will be studied.

**203 Fire Protection Equipment and
Systems ‡ (3) CSU**

Prerequisite: None.

Lecture, 3 hours.

A study of portable fire extinguishing equipment and permanent systems such as sprinklers, CO₂, dry chemical and halon. Detection and alarm systems, explosion prevention, computer protection and special hazards will be covered. The installation, testing, maintenance and fire department use of these systems will be emphasized.

**204 Building Construction for
Fire Protection ‡ (3) CSU**

Prerequisite: None.

Lecture, 3 hours.

Fundamentals of building construction as they relate to fire prevention and suppression. Classification of buildings by type of construction and use. Emphasis on fire protection features, fire resistive materials, interior finish and flame spread. The latest information on elevators, stairways, alarm systems and fire command control in high rise buildings will be studied.

**205 Fire Behavior and Combustion
(3) CSU**

Prerequisite: None.

Lecture, 3 hours.

Theory and fundamentals of how and why fires start, spread, and are controlled; and in-depth study of fire chemistry and physics, fire characteristics of materials, extinguishing agents, and fire control techniques.

206 Hazardous Materials ‡ (3) CSU

Prerequisite: None.

Lecture, 3 hours.

Advanced fire chemistry and physics. A more detailed and broad study of dangerous chemicals. The company and incident commanders role in providing life safety for the public and the firefighter, and preventing or limiting property damage.

208 Fire Hydraulics ‡ (3)

Prerequisite: None.

Lecture, 3 hours.

A foundation of theoretical knowledge to understand the principles of the use of water in fire protection and to apply hydraulic principles to analyze and solve water supply problems.

209 Fire Fighting Tactics and Strategy I ‡ (3) CSU

Prerequisite: None.

Lecture, 3 hours.

The use of manpower, equipment and apparatus on the fire ground. Methods of pre-fire plan, rescue, fire attack, control, extinguishment, salvage and overhaul. The application of these methods to structural, watershed, waterfront, oil, aircraft, and other types of fires. This course will include command functions. Field exercises will be held when possible.

210 Fire Company Organization and Procedure ‡ (3)

Prerequisite: None.

Lecture, 3 hours.

The role of the fire company in municipal fire departments. Governing laws and regulations and officer qualifications; supervision, morale, discipline, and personnel rating. Company organization for training, fire prevention, public relations, station and equipment maintenance, and records. Preparing for emergency incidents; pre-fire planning, attitude, tactics and strategy.

213 Fire Investigation ‡ (3) CSU

Prerequisite: None.

Lecture, 3 hours.

Methods of determining point of origin, path of fire travel and fire causes. Recognizing and preserving evidence, interviewing witnesses, understanding arson laws and types of arson fires; court testimony and reports and records.

217 Fire Apparatus ‡ (3) CSU

Prerequisite: None.

Lecture, 3 hours.

The principles of care, maintenance and operation of fire apparatus. The theory of internal combustion engines, power development and transmission, torque and horsepower, electrical, fuel and brake systems. Basic tune-up, trouble shooting, maintenance and lubrication. General discussion of pumps, aerial ladders and aerial platforms.

185 Directed Study - Fire Technology ‡ (1) CSU RPT2**285 Directed Study - Fire Technology ‡ (2) CSU****385 Directed Study - Fire Technology ‡ (3) CSU**

Prerequisite: None.

Conference, 1 hour per unit.

Allows students to pursue Directed Study in Fire Technology on a contract basis under the direction of a supervising instructor. *Credit limit:* A maximum of 3 units per subject in Directed Study may be taken for credit.

911-921-931-941 Cooperative Education - Fire Technology (1-4) CSU

Fire Technology is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

FRENCH**1 Elementary French I (5) UC:CSU**

(FR 1&2 = CAN FREN SEQ A)

Corresponds to the first year of high school French.

Prerequisite: None.

Lecture, 5 hours.

Emphasizes the fundamentals of French pronunciation, grammar, vocabulary, sentence structure, and idiomatic expressions; stresses the ability to understand read, write, and speak simple French; introduces cultural insights into French and Francophone worlds. Use of the language laboratory may be required. Basic computer knowledge required for interactive activities.

2 Elementary French II (5) UC:CSU

(FR 1&2 = CAN FREN SEQ A)

Corresponds to the second year of high school French.

Prerequisite: French 1 or French 22 with a grade of C or better, or equivalent skill level.

Lecture, 5 hours.

Completes the study of elementary grammar. Includes the reading of simplified texts with continued emphasis on aural and written comprehension, oral expression, and the writing of simple French. Further study of French and Francophone cultures. Use of the language laboratory may be required. Basic computer skills required for accessing online activities.

3 Intermediate French I (5) UC:CSU ☼

(CAN FREN 8)

Prerequisite: French 2 with a grade of C or better, or equivalent skill level.

Lecture, 5 hours.

A more intensive study of the language, including idiomatic expressions and irregular structures. Stress on fluency in oral expression and facility in writing. Extensive review of grammar and study of advanced grammatical concepts. Reading and discussion in French of literary and cultural short texts. Basic computer skills required for accessing online activities.

4 Intermediate French II ‡ (5) UC:CSU ☼

(CAN FREN 10)

Prerequisite: French 3 with a grade of C or better, or equivalent skill level.

Lecture, 5 hours.

Further development of writing and communication skills through the study of representative French and Francophone literary works; focus is on analysis and discussion. Sustained study of grammar and vocabulary with emphasis on complex structures, stylistics and use of idiomatic expressions. Basic computer skills required for accessing online activities.

5 Advanced French I ‡ (5) UC:CSU ☼

Prerequisite: French 4 with a grade of C or better or equivalent skill level.

Lecture, 5 hours.

Continues the study of representative literary and cultural texts of different genres with emphasis on improving oral expression, comprehension, reading and textual analysis, and composition. Stresses oral and written reports within the context of French and Francophone literature and civilization. Basic computer skills required for accessing and performing online activities.

6 Advanced French II ‡ (5) UC:CSU

Prerequisite: French 5 with a grade of C or better or equivalent skill level.

Lecture, 5 hours.

Continues the study of French and Francophone literature, with readings from representative authors of different genres. Emphasis on improving oral expression, comprehension, reading and writing. Advanced composition, stylistics, and grammar. Oral and written reports within the context of literary and cultural analysis. Basic computer skills required for accessing and performing online activities.

8 Conversational French ‡ (2) RPT3 UC:CSU

Prerequisite: French 2 with a grade of C or better or equivalent skill level.

Lecture, 2 hours.

Practical conversational and improvement of conversational fluidity based on everyday experiences, current events, cinema, cultural topics and readings. Emphasis on use of idiomatic expressions and current usages. Training in pronunciation, enunciation, and vocabulary-building. Basic computers required for accessing online information. Not open to native speakers of French.

FRENCH 8 IS REPEATABLE BUT MAXIMUM UC CREDIT IS 4 UNITS.

10 French Civilization ‡ (3) UC:CSU

Prerequisite: None.

(Taught in English)

Lecture, 3 hours.

A study of the origins, growth, and development of French civilization in its many forms with special emphasis on modern France and Francophone and its literary movements, ideas, sciences and the arts. Designed as a humanities course for all college students. Recommended for French majors. Lectures and readings in English. Basic computer skills required for accessing online information.

21 Fundamentals of French I ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

This course is for absolute beginners.

Covers the first half of French 1.

Introduction to the fundamentals of French pronunciation, grammar, vocabulary, sentence structure, and use of idiomatic expressions. Stresses the ability to understand, read, write, and speak simple French. Introduces cultural insights into French and Francophone worlds. Use of the language laboratory may be required. Basic computer knowledge required for interactive activities. French 21 + 22 are equivalent to French 1.

BOTH FRENCH 21 AND 22 MUST BE TAKEN FOR ANY UC CREDIT. MAXIMUM CREDIT FOR BOTH IS 5 UNITS.

22 Fundamentals of French II ‡ (3) UC:CSU

Prerequisite: French 21 with a grade of C or better.

Lecture, 3 hours.

Continuation of French 21. Covers the second half of French 1. Introduction to the fundamentals of French pronunciation, grammar, vocabulary, sentence structure, and idiomatic expressions. Stresses the ability to understand, read, write, and speak simple French. Introduces cultural insights into French and Francophone worlds. Use of the language lab may be required. Basic computer use required for online assignments. French 21 + 22 are equivalent to French 1. Recommended for those wishing to review before taking French 2.

BOTH FRENCH 21 AND 22 MUST BE TAKEN FOR ANY UC CREDIT. MAXIMUM CREDIT FOR BOTH IS 5 UNITS.

185 Directed Study -

French (1) CSU RPT2

285 Directed Study - French (2) CSU

385 Directed Study - French (3) CSU

Prerequisite: None.

Conference, 1 hour per unit.

Allows students to pursue Directed Study in French on a contract basis under the direction of a supervising instructor.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

911-921-931-941 Cooperative

Education - French (1-4) CSU

French is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

GEOGRAPHY (GEOG)

1 Physical Geography (3) UC:CSU ☼ (CAN GEOG 2)

Prerequisite: None.

Lecture, 3 hours.

A scientific study of the natural environment of planet earth: emphasis on earth-sun relationships, weather, climate, landforms, soil, natural vegetation, and map use. Field trips are included. Highly recommended for everyone who intends to travel, and who wants to know more about their environment.

2 Cultural Elements of Geography (3) UC:CSU ☼

(CAN GEOG 4)

Prerequisite: None.

Lecture, 3 hours.

An introduction to human populations and cultures, and the human imprint upon the land. This course focuses on culture (language, religion, ethnicity, social customs), population and migration, political geography, resources and economics, as well as human-environment interactions. Emphasis is placed on issues of diversity, ethnic conflict, urbanization, international trade and social change at local and global scales. A visual familiarity with the diverse landscapes and peoples is provided through films, slides and field trips.

3 Introduction to Weather and Climate (3) UC:CSU

(Same as Meteorology 3)

Prerequisite: None.

Lecture, 3 hours.

An introduction to the atmosphere with an emphasis on its properties and physical processes of weather. Forecasting and weather map interpretation, instrumentation and recording of observations are also considered. Weather phenomena and atmosphere are discussed along with short and long-term climate variation, classification systems and the global distribution of climatic types. Other topics include smog, El Nino/La Nina, global warming and the destruction of the ozone layer. The computer will be used to download current weather information, which will be analyzed by class members.

14 Geography of California ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

A survey course of the physical and cultural landscapes of California with emphasis on human and environment interaction and the forces that have shaped the state. The course will deal with the natural and environmental history of the state, resource use, settlement and land-use patterns, economic activities, including transportation and trade, as well as California's place in the new global economy. Optional field trips will be available to amplify class subjects.

15 Physical Geography Laboratory (2) UC:CSU

Prerequisite: Geog 1 with a grade of C or better or concurrent enrollment.

Lecture, 1 hour; laboratory, 2 hours.

An earth environment laboratory with field trips, stressing the use of scientific method in interpreting earth-sun relations, and time; earth representation through globes and maps, map plotting, location and interpolation, weather (temperature, wind, pressure, moisture); weather and climate controls; climates, natural vegetation and soils; mountain building and landform evolution by weathering, erosion and deposition.

30 Conservation of Natural Resources ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

An examination of natural resource supply and demand, exploitation and conservation, and long-term sustainability from a physical, economic, social, and political standpoint. Particular emphasis is applied to analysis of real-world resource problems including scarcity, human population pressure on the environment, bio-diversity, pollution, energy resources, deforestation and other issues, and the creation of viable public policy alternatives or solutions.

31 Introduction to Geographic Information Systems (GIS) (3) CSU

Prerequisite: None.

Lecture, 3 hours.

An introduction to fundamentals of Geographic Information Systems (GIS), comparing analog and automated mapping, introducing cartographic principles, hardware/software elements of GIS, and specific applications of GIS technology.

Terminology; data structures; sources and accuracy of data; data acquisition, conversion, and input; working with spatial databases; and spatial analysis will be introduced.

32 GIS Applications: ArcView (3) CSU

Prerequisite: None.

Lecture, 2 hours; laboratory, 2 hours.

A brief survey of GIS fundamentals, including hands-on experience with hardware/software. Emphasis on vector-based data, using ArcView, and an introduction to raster-based data using Spatial Analysis Module. Applications and examples will be drawn from environmental science, ecology, demographics, anthropology and earth science fields.

36 Cartography and Base Map Development (3) CSU

Prerequisite: Geog 32 with a grade of C or better.

Lecture, 2 hours; laboratory, 2 hours.

A hands-on, comprehensive look at GIS cartographic principles and practices, data acquisition methods (such as remote sensing, GPS and aerial imagery), base map development (scanning, digitizing and coordinate geometry) and map production using ArcGIS software. Field trips and lab work required.

37 Introduction to Global Positioning Systems (GPS) (1) CSU

Prerequisite: None.

Lecture, 1 hour.

An introduction to Global Positioning Systems technology, terminology, equipment, and techniques. The course provides hands-on experience with a GPS unit in determining location, completing a traverse using a GPS unit and map, as well as collecting data to be used in production of a GIS-generated map.

40 GIS Internship (1) CSU

Prerequisite: None.

Laboratory, 2 hours.

A field study/internship in which students apply classroom instruction to real-world GIS projects in the community in a business, government or non-profit agency under the supervision of an advisor from the college. The short-term internship will include periodic meetings with the advisor, the completion of interim reports, and the presentation of a final report at the completion of the internship.

45 Food and Culture (3) CSU

(Same as Anthropology 110)

Prerequisite: None.

Lecture, 3 hours.

A geographical overview of the role of food in culture and the development of civilization from an anthropological perspective. The ecological, economic, social and political aspects of food production are discussed. The formation of regional cuisine is considered as well as food security, globalization of food production, over-fishing, food safety and other current issues. Optional field trips are included.

185 Directed Study - Geography (1) CSU RPT2**285 Directed Study - Geography (2) CSU****385 Directed Study - Geography (3) CSU**

Prerequisite: None.

Conference, 1 hour per unit.

Allows students to pursue Directed Study in Geography on a contract basis under the direction of a supervising instructor. *Credit limit:* A maximum of 3 units per subject in Directed Study may be taken for credit.

UC CREDIT FOR INDEPENDENT STUDY/DIRECTED STUDY COURSES NUMBERED 185, 285, AND 385 IN ANY DEPARTMENT IS NOT AUTOMATIC; CREDIT IS CONTINGENT ON UC CAMPUS EVALUATION AFTER APPLICATION AND ADMISSION. THESE UNITS SHOULD NOT BE USED TOWARD CALCULATION OF THE MINIMUM 60 UNITS NEEDED FOR ADMISSION TO THE UC.

911-921-931-941 Cooperative Education - Geography (1-4) CSU

Geography is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

GEOLOGY**1 Physical Geology (3) UC:CSU**

(GEOL 1&6 = CAN GEOL 2)

Prerequisite: None.

Lecture, 3 hours.

Physical Geology is the study of the internal and external processes which shape the earth. Topics covered include plate tectonics, volcanism, earthquakes, mountain building, geologic structures, origin of rocks and minerals, and water and energy resources. A field trip is offered for this course.

6 Physical Geology Laboratory (2) UC:CSU

(GEOL 1&6 = CAN GEOL 2)

Corequisite: Geology 1.

Lecture, 1 hour; laboratory, 2 hours.

The Physical Geology Laboratory provides practical experience in identifying common rocks, minerals, landforms, geologic structures, and reading and interpreting geologic and topographic maps. Field trips to local areas of geologic interest are offered.

10 Introduction to Environmental Geology (3) UC:CSU*(Same as Environmental Science 7)**Prerequisite: None.***Lecture, 3 hours.**

This course examines how geologic processes and hazards influence human activities and the environment. The topics covered include geologic hazards such as earthquakes, volcanic eruptions, and tsunamis; mineral resources, groundwater, pollution, and current environmental and regulatory public policy planning. A field trip is offered for the course.

185 Directed Study - Geology (1) CSU RPT2**285 Directed Study - Geology (2) CSU**
385 Directed Study - Geology (3) CSU*Prerequisite: None.***Conference, 1 hour per unit.**

Allows students to pursue Directed Studies in various areas of geology.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

UC CREDIT FOR INDEPENDENT STUDY/DIRECTED STUDY COURSES NUMBERED 185, 285, AND 385 IN ANY DEPARTMENT IS NOT AUTOMATIC; CREDIT IS CONTINGENT ON UC CAMPUS EVALUATION AFTER APPLICATION AND ADMISSION. THESE UNITS SHOULD NOT BE USED TOWARD CALCULATION OF THE MINIMUM 60 UNITS NEEDED FOR ADMISSION TO THE UC.

911-921-931-941 Cooperative Education - Geology (1-4) CSU

Geology is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

GERMAN**1 Elementary German I (5) UC:CSU***(GER 1&2 = CAN GERM SEQ A)**Corresponds to the first year of high school German.**Prerequisite: None.***Lecture, 5 hours.**

The aim of this course is to develop the ability to understand, read, write, and speak simple German. Includes basic facts on the geography, customs, and cultures of German-speaking countries, German poems, songs, and simple, modern prose. Emphasis is on the spoken language. Use of the language lab is required.

2 Elementary German II (5) UC:CSU ☼*(GER 1&2 = CAN GERM SEQ A)**Corresponds to the second year of high school German.**Prerequisite: German 1 with a grade of C or better, or equivalent skill level.***Lecture, 5 hours.**

Completes the study of elementary grammar. Readings consist of selections dealing with German, Swiss and Austrian contributions in the arts, sciences and literature, further study of German civilization, and modern developments in Germany. Use of the language lab is required.

3 Intermediate German I ‡ (5) UC:CSU ☼*Prerequisite: German 2 with a grade of C or better, or equivalent skill level.***Lecture, 5 hours.**

An introduction to short stories, plays and poetry in German. Grammar, review, vocabulary building, and use of idiomatic expressions. Emphasis on discussions in German of various topics of interest.

4 Intermediate German II ‡ (5) UC:CSU ☼*Prerequisite: German 3 with a grade of C or better, or equivalent skill level.***Lecture, 5 hours.**

Reading in German, Swiss and Austrian literature. Special emphasis is given to oral discussions based on the readings. Further study in grammar, vocabulary building, and use of current idiomatic expressions.

5 Advanced German I ‡ (5) UC:CSU ☼*Prerequisite: German 4 with a grade of C or better, or equivalent skill level.***Lecture, 5 hours.**

Introduces the student to some of the important movements in German literature. Includes readings in prose and poetry from representative authors of German-speaking countries. Continues the development of linguistic skills through oral and written reports in German.

8 Conversational German ‡ (2) UC:CSU RPT3*Prerequisite: German 2 with a grade of C or better, or equivalent skill level.***Lecture, 2 hours.**

Provides opportunities for practical conversation and improvement of conversational fluidity based on everyday experiences, current events, and cultural topics. Training in pronunciation, enunciation, and vocabulary-building.

GERMAN 8 IS REPEATABLE BUT MAXIMUM UC CREDIT IS 4 UNITS.

185 Directed Study - German (1) CSU RPT2**285 Directed Study - German (2) CSU**
385 Directed Study - German (3) CSU*Prerequisite: None.***Conference, 1 hour per unit.**

Allows students to pursue Directed Study in German on a contract basis under the direction of a supervising instructor. *Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.*

911-921-931-941 Cooperative Education - German (1-4) CSU

German is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

HEALTH**3 Cardiopulmonary Resuscitation (1) CSU***Prerequisite: None***Lecture and directed practice, 1 hours, 5 weeks.**

This course will teach students the steps to follow in a life-threatening emergency situation (i.e. no pulse, not breathing) using the American Red Cross Community CPR skills for the adult, child and infant.

11 Principles of Healthful Living (3) UC:CSU*(Credit given for only one of Health 9, 10 or 11.)**Prerequisite: None.**Recommended for Physical Education and Elementary Education majors.***Lecture, 3 hours.**

This course offers concepts to use today and tomorrow as guidelines for self-directed responsible living. Emphasis is placed on relating health concepts to the individual's well-being in personal, community, vocational and leadership roles.

12 Safety Education and First Aid (3) UC:CSU*Prerequisite: None***Lecture and directed practice, 3 hours.**

This course will cover the American Red Cross First Aid Responding to Emergencies course. An American Red Cross certificate will be issued upon successful completion of all skills and the written exam.

185 Directed Study - Health (1) CSU RPT2**285 Directed Study - Health (2) CSU**
385 Directed Study - Health (3) CSU

Conference, 1 hour per unit.

Allows students to pursue Directed Study in Health on a contract basis under the direction of a supervising instructor.

*Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.***911-921-931-941 Cooperative Education - Health (1-4) CSU**

Health is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

HEBREW**1 Elementary Hebrew I ‡ (5) UC:CSU***(Same as Jewish Studies 11)**Prerequisite: None.***Lecture, 5 hours.**

Fundamentals of the language, the essentials of grammar, practical vocabulary, useful phrases, and the ability to understand, read, write and speak simple Hebrew. Emphasis is on the spoken language. Use of the language laboratory is required.

2 Elementary Hebrew II ‡ (5) UC:CSU*(Same as Jewish Studies 12)**Prerequisite: Hebrew 1.***Lecture, 5 hours.**

Continues the presentation of grammatical forms, provides additional training in oral and written composition, and reading. Use of the language laboratory is required.

3 Intermediate Hebrew I ‡ (5) UC:CSU*(Same as Jewish Studies 13)**Prerequisite: Hebrew 2.***Lecture, 5 hours.**

A review of grammar, additional training in conversation, and readings in modern Hebrew prose.

4 Intermediate Hebrew II ‡ (5) UC:CSU*(Same as Jewish Studies 14)**Prerequisite: Hebrew 3.***Lecture, 5 hours.**

Completes the presentation of grammar by means of advanced composition, the use of the practical idioms, and practice in conversation.

9 Hebrew Civilization I ‡ (3) UC:CSU*(Same as Jewish Studies 9)**Prerequisite: None.**(Taught in English)***Lecture, 3 hours.**

A study of the development of the Jewish self-understanding in relation to the intellectual climate of the environment, as expressed in the Biblical Age (ca. 2000 B.C.E. to ca. 300 B.C.E.).

10 Hebrew Civilization II ‡ (3) UC:CSU*(Same as Jewish Studies 10)**Prerequisite: None.**(Taught in English)***Lecture, 3 hours.**

Studies in specific problems and trends in the Jewish Heritage during the European and Modern Periods, Mysticism, Hasidism, Haskalah, Emancipation, Religious Movements, Zionism; the Holocaust and the state of Israel; educational, moral, and theological issues; Diaspora Jewry and non-Jewish relations; Ashkenazim and Sepharadim; the thought and manners of the time in an historical context.

185 Directed Study - Hebrew (1) CSU RPT2**285 Directed Study - Hebrew (2) CSU**
385 Directed Study - Hebrew (3) CSU*Prerequisite: None.***Conference, 1 hour per unit.**

Allow students to pursue Directed Study in Hebrew on a contract basis under the direction of a supervising instructor.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

UC CREDIT FOR INDEPENDENT STUDY/DIRECTED STUDY COURSES NUMBERED 185, 285, AND 385 IN ANY DEPARTMENT IS NOT AUTOMATIC; CREDIT IS CONTINGENT ON UC CAMPUS EVALUATION AFTER APPLICATION AND ADMISSION. THESE UNITS SHOULD NOT BE USED TOWARD CALCULATION OF THE MINIMUM 60 UNITS NEEDED FOR ADMISSION TO THE UC.

911-921-931-941 Cooperative Education - Hebrew (1-4) CSU

Hebrew is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

HISTORY*(For History, see also African-American Studies 4, 5; Chicano Studies 7, 8, 44.)*

NOTE: State law imposes on all California State Universities certain graduation requirements in the areas of U.S. History, U.S. Constitution and state and local government. Courses meeting these requirements for the state universities are listed in the TRANSFER REQUIREMENTS sections of the college catalog.

If you took a U.S. History course outside of California, see a counselor to make certain you meet the California state and local government graduation requirements.

1 Introduction to Western Civilization I (3) UC:CSU ☼*(CAN HIST 2)**Prerequisite: None***Lecture, 3 hours.**

A panoramic survey which traces the development of a distinctive European culture from its roots in the hunting societies of prehistoric human through the increasingly elaborate worlds of the Sumerians, the Egyptian pharaohs, and the Biblical peoples of the Middle East; the philosophers, artists, and warriors of classical Greece and Rome; and ends in 14th-century Europe - the world of saints and heretics, knights and peasants, philosophers and kings. Emphasizes the significance of this historical background to contemporary American culture.

2 Introduction to Western Civilization II (3) UC:CSU ☼
*(CAN HIST 4)**Prerequisite: None.***Lecture, 3 hours.**

A continuation of History 1 from 1400 to the present. Traces the growth of Modern Europe, its 500-year domination of world history and the decline of its world supremacy in the 20th century. Includes the life and times of da Vinci and Luther; of Elizabeth I of England and Peter the Great of Russia; of the philosophers and revolutionaries of the 18th century; of the socialists and scientists of the 19th century; and of the dictators and reformers of the 20th century. Emphasizes its influence of Western Civilization on American culture.

3 History of England and Great Britain I ‡ (3) UC:CSU ☼*Prerequisite: None***Lecture, 3 hours.**

A survey of British culture, emphasizing social, constitutional, and economic themes from earliest times to 1500.

4 History of England and Great Britain II ‡ (3) UC:CSU ☉

Prerequisite: None.

Lecture, 3 hours.

A survey of British culture, emphasizing social, political and economic themes from 1500 to the present.

5 History of the Americas I (3) UC:CSU ☉

Prerequisite: None.

Lecture, 3 hours.

History of the Americas from the European intrusion on the native cultures through the development of colonial life patterns to the achievement of independence of Latin America and the United States. Emphasis is placed on development and structure of the United States Constitution. This course fulfills the state graduation requirements in U.S. History and the U.S. Constitution.

6 History of the Americas II (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

History of the Americas from the Latin American wars of independence to the present, stressing Latin American development, inter-American relations, and constitutional patterns. Emphasis is placed on California constitutional and political processes in relating to the U.S. Constitution. This course fulfills the graduation requirement in California state and local government.

7 The Worlds Great Religions (3) UC:CSU ☉

(Same as Philosophy 33)

Prerequisite: None.

Lecture, 3 hours.

The historical development of the worlds great religions. A study is made of the origins and growth of major religions with an emphasis on the nature of religion and religion as a discipline of study.

MAXIMUM UC CREDIT FOR ANY COMBINATION OF HIST 7, 47, OR 48, IS TWO COURSES.

11 Political and Social History of the United States I (3) UC:CSU

(CAN HIST 8)

Prerequisite: None.

Lecture, 3 hours.

A survey of the development of the United States from its discovery, placing emphasis upon the Colonial Experience, the American Revolution, the Constitution and the new government, the Civil War and Reconstruction. This course fulfills the state graduation requirement in U.S. History and the U.S. Constitution.

MAXIMUM UC CREDIT FOR ANY COMBINATION OF HISTORY 11, 17, OR 32 COMBINED IS ONE COURSE.

12 Political and Social History of the United States II (3) UC:CSU ☉

(CAN HIST 10)

Prerequisite: None.

Lecture, 3 hours.

A survey of the development of the United States from the Reconstruction period to the present, placing emphasis upon the emergence of modern urban industrial America and upon the relationship between the nation and the world. This course fulfills the state graduation requirement in U.S. History.

MAXIMUM UC CREDIT FOR ANY COMBINATION OF HISTORY 12, 13, OR 18 COMBINED IS ONE COURSE.

13 The United States in the Twentieth Century (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

A historical survey of the major political, economic, intellectual, and cultural movements and events of the twentieth century. This course fulfills the state graduation requirement in U.S. History.

MAXIMUM UC CREDIT FOR ANY COMBINATION OF HISTORY 12, 13, OR 18 COMBINED IS ONE COURSE.

17 American Civilization I (3) UC:CSU ☉

Prerequisite: None.

Lecture, 3 hours.

A survey of the cultural development of American society from the beginning to 1865 with particular emphasis on social, intellectual and artistic trends. This course fulfills the state graduation requirement in U.S. History.

18 American Civilization II (3) UC:CSU ☉

Prerequisite: None.

Lecture, 3 hours.

A survey of the cultural development of American society from 1865 to the present with particular emphasis on social, intellectual and artistic trends. This course fulfills the state graduation requirement in U.S. History.

20 History of California and the Pacific Coast (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

History of California and the Pacific Coast from 1542 to the present with emphasis on Native, Spanish, and American cultures; political, economic, and social developments; and California's constitution, history and role in the American system. This course fulfills the state graduation requirement in California state and local government.

29 Asian Civilization: The Middle East ‡ (3) UC:CSU ☉

Prerequisite: None.

Lecture, 3 hours.

An introductory survey of the modern Middle East emphasizing Islamic culture and its political and social development. The course deals with the life and teachings of Muhammad, development of the Islamic faith, complexities within Islamic society, and relationships of the Islamic world with the West.

38 Introduction to Chinese Civilization (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

The study of the transformation of China in the 20th Century with major emphasis on the revolutionary changes which have occurred in people's lives since the Revolution of 1911.

47 History of Religions I ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

Explores the historical origins and development of the religions of India, China, and Japan.

MAXIMUM UC CREDIT FOR ANY COMBINATION OF HIST 7, 47 OR 48, IS TWO COURSES.

49 Religion in America ‡ (3) UC:CSU ☉

Prerequisite: None.

Lecture, 3 hours.

Surveys the variety of religious expression since the colonial period, from Native American to New Age.

86 Introduction to World Civilization I (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

Traces the development and relationships of major world civilizations, their traditions and contributions, from earliest times to the era of European expansion in the sixteenth century.

88 Sex in History (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

Explores how various western societies throughout history have dealt with sexual roles and the sex drive in their social, political, economic and cultural life.

911-921-931-941 Cooperative Education - History (1-4) CSU

History is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

HUMANITIES (HUMAN)

Courses in the Humanities are those which study the cultural activities and artistic expressions of human beings. For inclusion in the general education requirement in the Humanities, a course should help the student develop an awareness of the ways in which people throughout the ages and of different cultures have responded to themselves and the world around them in artistic and cultural creativity, and help the student develop aesthetic understanding and an ability to make value judgments. Such courses could include introductory or integrative courses in the arts, foreign languages, literature, philosophy and religion.

1 Cultural Patterns of Western Civilization (3) UC:CSU ☉

Prerequisite: None.

Lecture, 3 hours.

An introduction to the general concepts of the Humanities. Mythology, music, history, philosophy, painting, drama, sculpture and architecture are studied and compared in relation to their background, medium, organization and style. The course surveys in depth the classical heritage of Greece and Rome. Emphasis is placed upon the awareness of the cultural heritage, values and perspectives as revealed in the arts.

2 Studies in Selected Cultures ‡ (3) UC:CSU RPT1

Prerequisite: None.

Lecture, 3 hours.

A study in some depth of a particular period or tradition, such as Imperial China, the Middle Ages, Renaissance, Victorian England, the Age of Reason and others. Historical background, key personalities, contribution and significance within the various arts and sciences.

3 The Arts of Contemporary Society ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

A cultural survey which includes a study of the literature, philosophy, music, painting, architecture and sculpture of the 18th, 19th and early 20th centuries in western Europe and North America, in terms of the ideas and basic needs which stimulated the artists and thinkers and the contributions of their work toward the development of contemporary society.

6 Great People, Great Ages ‡ (3) UC:CSU RPT1

Prerequisite: None.

Lecture, 3 hours.

A cultural survey of the lives and contributions of selected individuals such as Martin Luther, Louis XIV and others whose impact helped shape the eras in which they lived. The course will explore both the lives and eras with an appreciation of both their historical importance and their individual contributions to our cultural heritage.

HUMANITIES 6 IS REPEATABLE BUT MAXIMUM UC CREDIT IS 3 UNITS.

8 Great Women, Great Eras ‡ (3) UC:CSU RPT1

Prerequisite: None.

Lecture, 3 hours.

A cultural survey of the lives and contributions of selected individuals such as Hatshepsut, Elizabeth I, Madame Curie, Virginia Woolf and others whose impact helped to shape the eras in which they lived. This course will explore both the lives and eras with an appreciation of both their historical importance and their individual contributions to our cultural heritage.

HUMANITIES 8 IS REPEATABLE BUT MAXIMUM UC CREDIT IS 3 UNITS.

30 The Beginnings of Civilization (3) UC:CSU ☉

Prerequisite: None.

Lecture, 3 hours.

A survey of man's cultural heritage from prehistoric times to the early civilizations of Sumeria, Babylonia, Assyria and Egypt. Emphasis will be placed on the arts, literature, religion, cultural traditions and contributions made by these civilizations to man's historical and cultural heritage.

31 People in Contemporary Society ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

A study in some depth of cultural history from the Industrial Revolution to the present. The approach is interdisciplinary, involving art, music, literature, drama, philosophy and history. The emphasis is upon the evolutionary development which has influenced and shaped modern culture.

INSURANCE

(See Finance)

INTERNATIONAL BUSINESS (INTBUS)

1 International Trade (3) CSU

Prerequisite: None.

Lecture, 3 hours.

This introductory course in the field of foreign commerce deals with the relation of foreign trade to domestic trade. The course surveys the operation of an import and export business, including organization, marking, terminology, documents, financial procedures, credits and collection and communications. The basic principles and practices of world trade are studied.

ITALIAN

1 Elementary Italian I (5) UC:CSU

Corresponds to the first year of high school Italian.

Prerequisite: None.

Lecture, 5 hours.

Emphasizes the fundamentals of pronunciation, grammar, practical vocabulary, useful phrases and sentence structure; stresses the ability to understand, read, write, and speak simple Italian. Introduces basic facts on the geography, customs, and culture of the Italian and Italian-speaking world. Focus is on the spoken language.

2 Elementary Italian II (5) UC:CSU

Corresponds to the second year of high school Italian.

Prerequisite: Italian 1 with grade of C or better, or equivalent skill level.

Lecture, 5 hours.

Completes the elementary grammar. It includes the reading of simplified texts and further study of Italian civilization. Emphasis is on the spoken language and oral expression. Use of the language laboratory is required.

3 Intermediate Italian I ‡ (5) UC:CSU ☉

Prerequisite: Italian 2 with grade of C or better, or equivalent skill level.

Lecture, 5 hours.

A review of Italian grammar with special emphasis on idiomatic construction and expressions. Oral discussions and conversation are based on selected readings from contemporary Italian writing.

4 Intermediate Italian II ‡**(5) UC:CSU ☉***Prerequisite: Italian 3 with grade of C or better or equivalent skill level.***Lecture, 5 hours.**

Stresses the reading and oral discussion of modern Italian short stories. Special emphasis is given to oral discussions based on the readings. Further study in grammar with the use of current idiomatic expressions.

5 Advanced Italian I ‡ (5) UC:CSU ☉*Prerequisite: Italian 4 with a grade of C or better or equivalent skill level.***Lecture, 5 hours.**

Introduces the student to some of the important movements of Italian literature. Includes readings in prose and poetry from representative authors of Italian literature. Continues the study of grammar, writing, and oral expression through oral and written reports in Italian.

8 Conversational Italian ‡**(2) UC:CSU RPT3***Prerequisite: Italian 2 with a grade of C or better or equivalent skill level.***Lecture, 2 hours.**

Provides opportunities for conversation on current events, cultural materials and everyday topics. Emphasis is placed on idiomatic expressions. Training in pronunciation, enunciation and vocabulary building.

ITALIAN 8 IS REPEATABLE BUT MAXIMUM UC CREDIT IS 4 UNITS.

185 Directed Study -**Italian (1) CSU RPT2****285 Directed Study - Italian (2) CSU****385 Directed Study - Italian (3) CSU***Prerequisite: None.***Conference, 1 hour per unit.**

Allows students to pursue Directed Study in Italian on a contract basis under the direction of a supervising instructor.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

UC CREDIT FOR INDEPENDENT STUDY/DIRECTED STUDY COURSES NUMBERED 185, 285, AND 385 IN ANY DEPARTMENT IS NOT AUTOMATIC; CREDIT IS CONTINGENT ON UC CAMPUS EVALUATION AFTER APPLICATION AND ADMISSION. THESE UNITS SHOULD NOT BE USED TOWARD CALCULATION OF THE MINIMUM 60 UNITS NEEDED FOR ADMISSION TO THE UC.

911-921-931-941 Cooperative Education - Italian (1-4) CSU

Italian is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

JEWISH STUDIES (JEWISH)*(For Jewish Studies see also Hebrew)***1 The Jew in America ‡ (3) UC:CSU***Prerequisite: None.***Lecture, 3 hours.**

An historical analysis of the Jews in the United States which discusses the essentially social and psychological problems of Jewish group identity. Much of the course concerns itself with the contemporary scene – the Jewish religious minority in America and its revival, the reasons for it, and the extent to which it expresses religious and spiritual impulses as well as social needs. The contribution of the successive waves of Jewish immigration to this country and western civilization in general is evaluated.

2 The Jewish Religious Heritage ‡ (3) UC:CSU*Prerequisite: None.***Lecture, 3 hours.**

Comprises an exploration of the major teachings of Judaism. A brief historical background dealing with the development of Judaism is related to an exposition of its central affirmations. The goal is to familiarize the student with what the Jewish religious tradition regards to be its essential genius and also to provide an opportunity for an appreciation of the similarities and differences between Judaism and the other major religious groups of American culture. Among the topics to be discussed are the following: (A) The shape of faith: God, man, rites of passage, Jewish festivals, community; (B) The dynamics of faith: religious commitment and social problems, contemporary values, the present state of Jewish belief.

3 Contemporary Hebrew Literature in Translation ‡ (3) UC:CSU*Prerequisite: None.***Lecture, 3 hours.**

Consists of lectures and discussions in English on the Hebrew literature of the nineteenth and twentieth centuries, with a background of earlier works. Students will read translations of principal writers of modern Hebrew poetry, essay, short story and novel.

4 Israel: The Theory and Practice of Zionism ‡ (3) UC:CSU*Prerequisite: None.***Lecture, 3 hours.**

Consists of a general survey of the historical development of the area with an emphasis upon the social and political development of the state of Israel. The social and political institutions of the state of Israel will be analyzed along with a general study of the geographic, economic, ethnic and religious composition of the land of Israel. A general study will be made of the ideological and historical background of the Zionist movement as well as a general survey of the origins of the Palestinian national movement.

5 Yiddish Literature in English Translation I ‡ (3) UC:CSU*(Same as English 232)**Prerequisite: None.***Lecture, 3 hours.**

A survey of Yiddish literature in English translation, including poetry, prose, drama, and folksong, from the very beginnings (c. 1382) to the present. Readings from Yiddish medieval romance, through Middle Yiddish and the classical period (Mendele, Sholem Aleikhem, Peretz), ending with the moderns. The literature to be viewed against its social and ideological background; e.g., early shtetl and later, big city life; Khasidism; Haskalah; Bundism; Zionism; etc. To include an analysis of the origin and development of the Yiddish language and its dialect structure.

6 American-Jewish Literature ‡ (3) UC:CSU*(Same as English 233)**Prerequisite: None.***Lecture, 3 hours.**

A good deal of the best current American writing is being done by the sons and grandsons of immigrant Jews (e.g., Bellow, Wiesel, Malamud, Roth, Potok, Wouk, Ozick, etc.). Some earlier American-Jewish writing is currently being rediscovered (e.g. Cahan, Fuchs, Henry Roth). The course will study a score of such writers, after first grappling with a definition for American-Jewish literature. The books selected will be read and discussed first as literature, and second as a reflection of the Jewish experience in America.

7 Elementary Yiddish I ‡ (3) UC:CSU*(Same as Yiddish 1)**Prerequisite: None.***Lecture, 3 hours.**

This beginning course in the Yiddish language teaches basic reading, writing; speaking, and comprehension; it also provides an introduction to the history of Yiddish as a mirror of the last 1,000 years of Ashkenazic Jewish life. Folklore, folksongs, literature and conversational Yiddish supplement the basic course materials.

8 Elementary Yiddish II ‡ (3) UC:CSU*(Same as Yiddish 2)**Prerequisite: Jewish 7 with a grade of C or better.***Lecture, 3 hours.**

Attention to grammar, syntax, vocabulary, and conversational skills is given in addition to attainment of greater proficiency in reading and writing. Opportunities are provided for reading and studying Yiddish poetry and prose in the original.

9 Hebrew Civilization I ‡ (3) UC:CSU*(Same as Hebrew 9)**Prerequisite: None.***Lecture, 3 hours.**

A study of the development of the Jewish self-understanding in relation to the intellectual climate of the environment, as expressed in the Biblical Age (ca. 3000 B.C.E. to ca. 300 B.C.E.).

10 Hebrew Civilization II ‡ (3) UC:CSU*(Same as Hebrew 10)**Prerequisite: None.***Lecture, 3 hours.**

Studies in specific problems and trends in the Jewish Heritage during the European and Modern Periods, Mysticism, Hasidism, Haskalah, Emancipation, Religious Movements, Zionism; the Holocaust and the state of Israel; educational, moral, and theological issues; Diaspora Jewry and non-Jewish relations; Ashkenazim and Sepharadim; the thought and manners of the time in an historical context.

11 Elementary Hebrew I ‡ (5) UC:CSU*(Same as Hebrew 1)**Prerequisite: None.***Lecture, 5 hours.**

Fundamentals of the language, the essentials of grammar, practical vocabulary, useful phrases, and the ability to understand, read, write and speak simple Hebrew. Emphasis is on the spoken language.

12 Elementary Hebrew II ‡ (5) UC:CSU*(Same as Hebrew 2)**Prerequisite: Jewish 11 with a grade of C or better or equivalent skill level.***Lecture, 5 hours.**

Continues the presentation of grammatical forms, provides additional training in oral and written composition, and reading. Use of the language laboratory is required.

13 Intermediate Hebrew I ‡ (5) UC:CSU*(Same as Hebrew 3)**Prerequisite: Jewish 12 with a grade of C or better or equivalent skill level.***Lecture, 5 hours.**

A review of grammar, additional training in conversation and readings in modern Hebrew prose.

14 Intermediate Hebrew II ‡ (5) UC:CSU*(Same as Hebrew 4)**Prerequisite: Jewish 13 with a grade of C or better or equivalent skill level.***Lecture, 5 hours.**

Completes the presentation of grammar by means of advanced composition, the use of the practical idioms, and practice in conversation.

17 The Talmud: Mishnah as Literature ‡ (3) UC:CSU*Prerequisite: None.***Lecture, 3 hours.**

A study of the Talmudic period, giving analysis of the religious-cultural socio-economic and political conditions in Eretz Israel and in the Diaspora from ca. 330 B.C.E. to ca. 500 C.E.

25 The History of the Jewish People ‡ (3) UC:CSU*Prerequisite: None.***Lecture, 3 hours.**

Traces the development of the Jews from their origins in Mesopotamia to the present day. It follows and describes the experiences of the Jewish people in all parts of the world and in all important countries. It analyzes their outlook and philosophy, their habits and customs, their values and ideals.

26 Survey of Jewish Thought and Culture ‡ (3) UC:CSU*Prerequisite: None.***Lecture, 3 hours.**

A survey of Jewish philosophical thought from Philo to the Post-Auschwitz Age as reflected in the shifting cultural centers of the Jewish Diaspora and commonwealth.

27 Holocaust: A Prototype of Genocide ‡ (3) UC:CSU*Prerequisite: None.***Lecture, 3 hours.**

The course describes pre-World War II Europe, emphasizes the nature of Hitler's Nazi-movement in Germany, reviews the war years and program of genocide against the Jewish people of Nazi-occupied Europe, and considers reasons for the Holocaust, roles of the perpetrators and victims, and results.

35 Judaism, Christianity, and Islam ‡ (3) UC:CSU*(Same as Philosophy 35.)**Prerequisite: None.***Lecture, 3 hours.**

A scholarly study of religion that explains the basic structure of religious belief and practice. It examines the cultural history and social aspects which influenced and shaped the growth and development of the western religions in order to encourage a desire to understand as a means of overcoming the destructive exchanges that frequently accompany religious discussion.

911-921-931-941 Cooperative Education - Jewish Studies (1-4) CSU

Jewish Studies is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

JOURNALISM (JOURNAL)**101 Collecting and Writing News (3) CSU***Prerequisite: None.**Recommended: Concurrent enrollment in Journalism 106.*

Required of all newspaper and photo-journalism majors. Journalism 101 or 106 required of all magazine journalism majors.

Lecture, 3 hours.

This introductory course stresses instruction in the gathering of information and in its presentation. Extensive writing experience is emphasized. Critical evaluation of news reporting includes instruction and practice in the avoidance of faulty interpretation of facts, in the critical presentation of information, and in the recognition of propaganda appeals and libel. Newspaper, radio, and television news are surveyed. Adherence to writing style and standards of the profession are emphasized.

105 Mass Communications (3) UC:CSU

(CAN JOUR 4)

*Prerequisite: None.***Lecture, 3 hours.**

This introductory survey course examines the major aspects of the electronic and print media. Students will survey newspapers, magazines, film, radio and television. New media such as the world wide web will also be discussed. A historical perspective is taken, showing the chronological development of each of these media. Their sociological and psychological impact on society at different periods of time from their origin to the present also is analyzed.

106 Mechanics of Expression (3) CSU*Prerequisite: None.*

Required of all newspaper journalism majors. Journalism 101 or 106 required of all magazine journalism majors.

Lecture, 3 hours.

Provides thorough instruction in grammar, punctuation, capitalization and word usage. Concentrates on critical analysis and application of the interaction and relationship of words, phrases, and clauses in the correct and effective expression and transference of thoughts in written English. Emphasizes journalistic style and copy editing techniques.

108 Article Writing (3) CSU*Prerequisite: None.**Required of all magazine journalism majors.***Lecture, 3 hours.**

A course for journalism majors, freelance writers and anyone who wants to learn to write materials for magazines. Emphasis is placed on writing articles features, editorials, or reviews suitable for publication. Students also receive practice in editing and the use of illustrations.

202 Advanced Newswriting (3) CSU*Prerequisite: Journalism 101 with grade of C or better.**Required of all newspaper journalism majors.***Lecture, 3 hours.**

Provides the student with principles and practice in writing specialized types of newspaper stories and increases the mastery of fundamental reporting techniques. Interpretative writing skills, editorial writing, and feature writing are included.

218 Practical Editing (3) CSU RPT3*Prerequisite: Journal 202 with grade of C or better.**Required of all newspaper journalism majors.***Lecture, 1 hour; laboratory, 6 hours.**

Practical instruction and practice in writing and editing the campus newspaper. Editions are evaluated in regularly scheduled class meetings.

220 Magazine Editing ‡ (3) CSU RPT3*Prerequisite: Journal 101 or 108 with a grade of C or better.**Required of all magazine journalism majors.***Lecture, 2 hours; laboratory, 3 hours.**

Practical instruction and practice for writing and producing the campus magazine. Magazine design and layout creativity are stressed. Writing and editing of copy, page design, preparing photographs, illustrations and other materials for publishing are practiced.

185 Directed Study - Journalism (1) CSU RPT2**285 Directed Study - Journalism (2) CSU****385 Directed Study - Journalism (3) CSU***Prerequisite: None.***Conference, 1 hour per unit.**

Allows students to pursue Directed Study in Journalism on a contract basis under the direction of a supervising instructor.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

911-921-931-941 Cooperative Education - Journalism (1-4) CSU

Journalism is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

LAW

(For Law, see also Business and Real Estate)

1 Business Law I (3) UC:CSU

(CAN BUS 8)

*(Same as Business 5)**Prerequisite: None.***Lecture, 3 hours.**

Essentials of the law of contracts in its application to everyday problems pertaining to business and to the individual. Elementary safeguards regarding sales and sales contracts. Case discussion and lecture method.

MAXIMUM UC CREDIT FOR ANY COMBINATION OF BUS 5, 6, LAW 1, OR LAW 2 IS ONE COURSE.

2 Business Law II (3) UC:CSU*(Law 2 may be taken before Law 1)**(Same as Business 6)**Prerequisite: None.***Lecture, 3 hours.**

Essentials of the law of agency, partnerships, corporations, property, bailments, and commercial paper. Case discussion and lecture method.

MAXIMUM UC CREDIT FOR ANY COMBINATION OF BUS 5, 6, LAW 1, OR LAW 2 IS ONE COURSE.

3 Civil Rights and the Law (3) UC:CSU*Prerequisite: None.***Lecture, 3 hours.**

An introduction to Constitutional Law, involving the comparative and analytical study of the law and related problems concerning Civil Rights. Due process of law, freedom of expression, freedom of religion, racial equality and democratic processes are the topics under consideration, with emphasis on recent court decisions.

911-921-931-941 Cooperative Education - Law (1-4) CSU

Law is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

LEARNING SKILLS (LRNSKIL)**1ABC Reading (3) NDA RPT3***Prerequisite: None.***Laboratory, 9 hours.**

Students receive group and individualized instruction in reading/English comprehension skills to the level at which they will be able to succeed in college/vocational coursework. Pass/No Pass only.

2ABC English Fundamentals (3) NDA RPT3*Prerequisite: None.***Laboratory, 9 hours.**

Students receive individualized English instruction with emphasis on grammar, punctuation, and sentence structure. Paragraph structure introduced. Pass/No Pass only.

4 The Mechanics of Spelling (1) NDA RPT3

Prerequisite: None.

Laboratory, 3 hours.

Students receive group and individualized spelling instruction designed to improve spelling skills to the level at which the student will be able to succeed in college/vocational coursework. Pass/No Pass only.

10ABC Mathematics Fundamentals (3) NDA RPT3

Prerequisite: None.

Laboratory, 5 hours.

Students receive individualized instruction in math fundamentals so that they can succeed in college/vocational courses requiring computational skills. Pass/No Pass only.

13 Learning Skills in English as a Second Language (1)

Prerequisite: None.

Laboratory, 3 hours.

Based on diagnostic assessment the ESL student will receive individualized instruction in English with an emphasis on reading, vocabulary, grammar, punctuation, listening and speaking skills.

26 Math Tutoring Strategies (0.5)

Prerequisite: None.

Lecture, 0.5 hour.

This course teaches our students how to tutor in the Math Lab. Primarily it covers tutoring pedagogies in the context of tutoring Math. Secondly it covers tutoring in a culturally diverse world, sexual harassment issues, and log-in procedures in the Math Lab.

28 General Tutoring Strategies (0.5)

Prerequisite: None.

Lecture, 0.5 hour.

This course trains new tutors in theory and practice in tutoring techniques, group dynamics, interpersonal skills, study skills, learning styles, compliance issues and record keeping. Tutors will be trained to work with subject specific textbooks, self-instructional materials and will tutor students enrolled in Supervised Learning Assistance.

40 Introduction to Learning Disabilities (1) NDA RPT3

Prerequisite: None.

Students should obtain add cards from the Disabled Student Programs and Services Office. Pass/No Pass only.

Laboratory, 2 hours.

Individualized diagnostic assessment processes are administered. Students with learning disabilities identify strengths and weaknesses in achievement and learning skills. Individual educational plans are developed outlining goals, objectives, strategies, and recommendations.

41 Study Strategies for the Learning Disabled (3) NDA RPT2

Prerequisite: None.

Class is designed for students with disabilities.

Lecture, 3 hours.

Students with identified learning disabilities are taught skills and compensatory strategies for successful completion of educational goals.

43 Adaptive Word Processing Operations(1) NDA RPT2

Prerequisite: None.

Class is designed for students with disabilities. Students should obtain add cards from the Disabled Student Programs and Services Office. Pass/No Pass only.

Laboratory, 3 hours.

Designed for eligible students with verified disabilities, this class provides individual assessment and training in the use of word computers with adaptive hardware and software for students with disability-related educational limitations that warrant this accommodation. The type of equipment and/or programs and the extent of the training will depend on the student's disability, academic and vocational goals, and individual disability-related educational limitations.

44 Adaptive Computer Operations (1) NDA RPT3

Prerequisite: None.

Class is designed for students with disabilities. Students should obtain add cards from the Disabled Student Programs and Services Office. Pass/No Pass only.

Laboratory, 2 hours.

Open to eligible students with verified disabilities, this class provides individual assessment of adaptive computer needs. The type of equipment and/or programs and the extent of training will depend on the student's disability, academic and vocational goals.

185 Directed Study – Learning Skills (1) NDA RPT2

Prerequisite: None. Pass/No Pass only.

Conference, 1 hour.

This course is designed for students with disabilities and consists of Directed Study in Learning Skills on a contract basis under the supervision of instructor.

LIBRARY SCIENCE (LIB SCI)

101 Library Research Methods (1) UC:CSU

Prerequisite: None.

Lecture, 1 hour.

An introduction to research methods and library organization. Instructs students in the use of reference materials, book classification systems, the online catalog and specialized print and electronic resources. Focus is placed upon learning techniques of preparing a research paper.

102 Internet Research Methods (1) CSU

Prerequisite: None.

Lecture, 0.5 hour; Laboratory 1 hour.

Locate and evaluate information resources on the internet using the world wide web, listservs, usenet, ftp and more. Learn principles of information access, development of search strategies, evaluation criteria and processes and specific search tools. Discuss intellectual property, censorship and online publishing.

LINGUISTICS (LING)

1 Introduction to Language and Linguistics ‡ (3) UC:CSU

(Same as English 105)

Prerequisite: None.

Lecture, 3 hours.

Summary of what is known about human language: an introduction to the scientific study of language, its history and structure; language in its social and cultural setting; language, the learning tool.

MACHINE SHOP-CNC (MSCNC)

114 Print Interpretation and Sketching (Blueprint I) (3)

Prerequisite: None.

Lecture, 3 hours.

A course in understanding the fundamental principles and practices of blueprint reading which includes a study of standard symbols and their applications with emphasis on interpreting a variety of mechanical drawings in the major technical fields.

124 Print Interpretation and Inspection (Blueprint II) (3)

Prerequisite: None.

Lecture, 3 hours.

Multi-view, assembly and detail prints are studied in this course. Advanced terminology including geometric dimensioning and tolerancing and true position is stressed. Basic Inspection processes are covered.

MANAGEMENT (MGMT)

There are no prerequisites for any Management classes.

1 Principles of Management (3) CSU

(It is recommended that the student have attained sophomore status or have business experience before enrolling in this class.)

Recommended: Business 1.

Lecture, 3 hours.

Introductory course in principles of management. Detailed analysis of management functions: planning - including objectives, policies, methods, and procedures; organizing - including authority, responsibility; organizational charts; controlling - including standards, budgeting, production and cost.

NO UC CREDIT FOR MGT 1 AFTER SUMMER 1995.

6 Public Relations ‡ (3) CSU RPT 1

(It is recommended that the student have attained sophomore status or have business experience before enrolling in this class.)

Lecture, 3 hours.

Introductory course in principles of management. Detailed analysis of management function: planning-including objectives, policies, methods, and procedures; organizing-including authority, responsibility, and organization charts; controlling-including standards, budgeting, production and cost.

13 Small Business Entrepreneurship (3) CSU

(It is recommended that the student have attained sophomore status or have business experience before enrolling in this class.)

Lecture, 3 hours.

Teaches the student the organization and operation of small business. The major areas of study include: the analysis of ones own personal qualifications for starting and managing small business, determining the market opportunity, legal procedures, location factors, capital and credit requirements, protective functions to provide for risk, and personnel management.

31 Human Relations for Employees (3) CSU

Lecture, 3 hours.

The practical applications of psychological and sociological principles to the study of human relations in business and industry.

33 Personnel Management (3) CSU

Lecture, 3 hours.

An introduction to the various aspects of modern manpower management in industry and government; relation of personnel to the organization, determination of requirements, job analysis and specifications, wage and salary determination, recruitment, selection, interviewing, testing, performance evaluation, training, labor and employee relations, elementary statistics, personnel research and evaluation, and personnel as a profession.

48 Management Systems and Procedures ‡ (3) CSU

Lecture, 3 hours.

An introduction to systems and procedures aspects of modern management, particularly to more efficient paperwork; relation to organization and management; barriers to procedure improvement, systems and procedure analysis, charting, work simplification, forms design and control, work measurement, P.E.R.T. and computer systems, selling and installing a system.

911-921-931-941 Cooperative Education - Management (1-4) CSU

Management is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

MARKETING (MARKET)

1 Principles of Selling ‡ (3) CSU

Prerequisite: None.

Lecture, 3 hours.

Examine the fundamental principles of selling with emphasis on techniques; such as securing prospects, the approach, the demonstration, the handling of objections, and the close. An analysis is made of the opportunities in selling, product knowledge, and the salesperson's personality.

11 Fundamentals of Advertising ‡ (3) CSU

Prerequisite: None.

(It is recommended that the student have attained sophomore status or have business experience before enrolling in this class.)

Lecture, 3 hours.

This course provides a business approach to the principles and practices of advertising including studies of its history, economic impact, selection of media, campaign management, the mechanics of advertising such as layout, copy, appeals and the production of electronic media commercials.

21 Principles of Marketing ‡ (3) CSU

Prerequisite: None.

(It is recommended that the student have attained sophomore status or have business experience before enrolling in this class.)

Lecture, 3 hours.

Teaches the student the major marketing methods, institutions, and practices. The course utilizes a systems approach to the marketing concept with major emphasis upon fundamentals for marketing decision-making. The major areas of study include: the consumer and industrial markets, customer motivation, research techniques, product decisions, distribution channels and institutions, the integration of promotional techniques and pricing, and evaluation of the marketing effort.

31 Retail Merchandising ‡ (3) CSU

Prerequisite: None.

(Because of the more advanced specialization of this course, it is suggested that the student have completed Marketing 21 or its equivalent or have some field experience before enrolling in this course.)

Lecture, 3 hours.

Provides the student with a working knowledge of the principles and procedures in retailing, including a study of store location, store layout, store organization, buying, pricing, stock planning, and retail sales promotion.

32 Retail Merchandising (3) CSU

Prerequisite: None.

(Because of the more advanced specialization of this course, it is suggested that the student have completed Marketing 21 or its equivalent or have some field experience before enrolling in this course.)

Lecture, 3 hours.

A broad background and comprehensive analysis of the fashion and related industries and explores their history, development, organization and operations. It helps develop a merchandising vocabulary and prepares the student for employment in the retail and fashion field.

33 Retail Buying ‡ (3) CSU

Prerequisite: None.

Lecture, 3 hours.

Deals with all aspects of the buying function for all types of retail outlets. The material stresses the management responsibilities of the buyer in determining customer demand planning, merchandise assortments, selection of resources, timing of purchases and shipments, and the development of programs to stimulate the sale of fashion goods.

185 Directed Study - Marketing (1) CSU RPT2**285 Directed Study - Marketing (2) CSU**

Prerequisite: None.

Conference, 1 hour per unit.

Directed Study allows selected students to pursue specific projects (departmentally approved) under the direction of a supervising instructor. The student will be examining topics related specifically to that individuals training, education and interest. *Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.*

911-921-931-941 Cooperative Education - Marketing (1-4) CSU

Marketing is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

MATHEMATICS (MATH)**MATHEMATICS PLACEMENT TEST:**

Every student planning to enroll in a mathematics course for the first time at Valley College is expected to take the Mathematics Assessment. Upon completing the assessment students are advised of their recommended placement and are then allowed to enroll in that course. Contact the Assessment Center for hours (818) 947-2587.

NOTE: Students are advised to consult counselors or the mathematics faculty if in doubt about prerequisites.

105 Arithmetic (3) NDA

Prerequisite: None.

Lecture, 3 hours.

The course covers the fundamentals of arithmetic that are essential to continuing in any field. Topics include operations on whole numbers, fractions, decimals, and integers; order of operations; ratios, proportions, percents, and applications; perimeter, area, and volume applications; metric and English conversions.

112 Prealgebra (3) NDA

Prerequisite: None.

Recommended: A grade of C or better in Math 105, or appropriate skill level demonstrated through the math placement process.

Lecture, 3 hours.

A review of the fundamentals of arithmetic. The course covers the beginning algebra skills that are essential for Elementary Algebra. Topics covered include Integers, Simple Algebraic Expressions and Equations, Basic Geometry, Fractions, Decimals, Order of Operations, Ratio, Proportion, and Percent. Basic word problems that embody these concepts are included throughout the course. Negative numbers are used throughout the course.

113 Elementary Algebra A (3)

Prerequisite: A grade of C or better in Math 112, or appropriate skill level demonstrated through the math placement process.

Lecture, 3 hours.

The first half of Math 115. The course covers integer exponents, polynomials, solving linear equations and inequalities, and factoring. Math 113 and 114 together are equivalent to Math 115. Credit is allowed in only one of Math 115 or the Math 113/114 combination. Concurrent enrollment in Math 113 and 114 is not permitted.

114 Elementary Algebra B (3)

Prerequisite: A grade of C or better in Math 113.

Lecture, 3 hours.

The second half of Math 115. The course reviews factoring, and covers rational expressions, introduction to graphing linear equations in two variables, solving systems of linear equations, roots and index 2 radicals, and methods of solving quadratic equations. Math 113 and 114 together are equivalent to Math 115. Credit is allowed in only one of Math 115 or the Math 113/114 combination. Concurrent enrollment is Math 113 and 114 is not permitted.

115 Elementary Algebra (5)

Prerequisite: A grade of C or better in Math 112, or appropriate skill level demonstrated through the math placement process.

Lecture, 5 hours.

The course covers the real numbers and their properties; evaluating and simplifying algebraic expressions; rules of positive integer exponents; fundamental operations on polynomial, rational, and radical (index 2) expressions; polynomial factoring; solving linear, quadratic, and special polynomial equations; solving rational and radical equations; graphing a linear equation in two variables; solving a system of two linear equations in two variables; setting up and solving a variety of word problems.

120 Plane Geometry (5)

Prerequisite: A grade of C or better in both Math 113 and Math 114, or a grade of C or better in Math 115, or appropriate skill level demonstrated through the math placement process.

Lecture, 5 hours.

The course covers properties of points, lines, angles, triangles, quadrilaterals, circles, and other polygons. Emphasizes is placed on logical reasoning and methods of proof, especially deductive reasoning.

125 Intermediate Algebra (5)

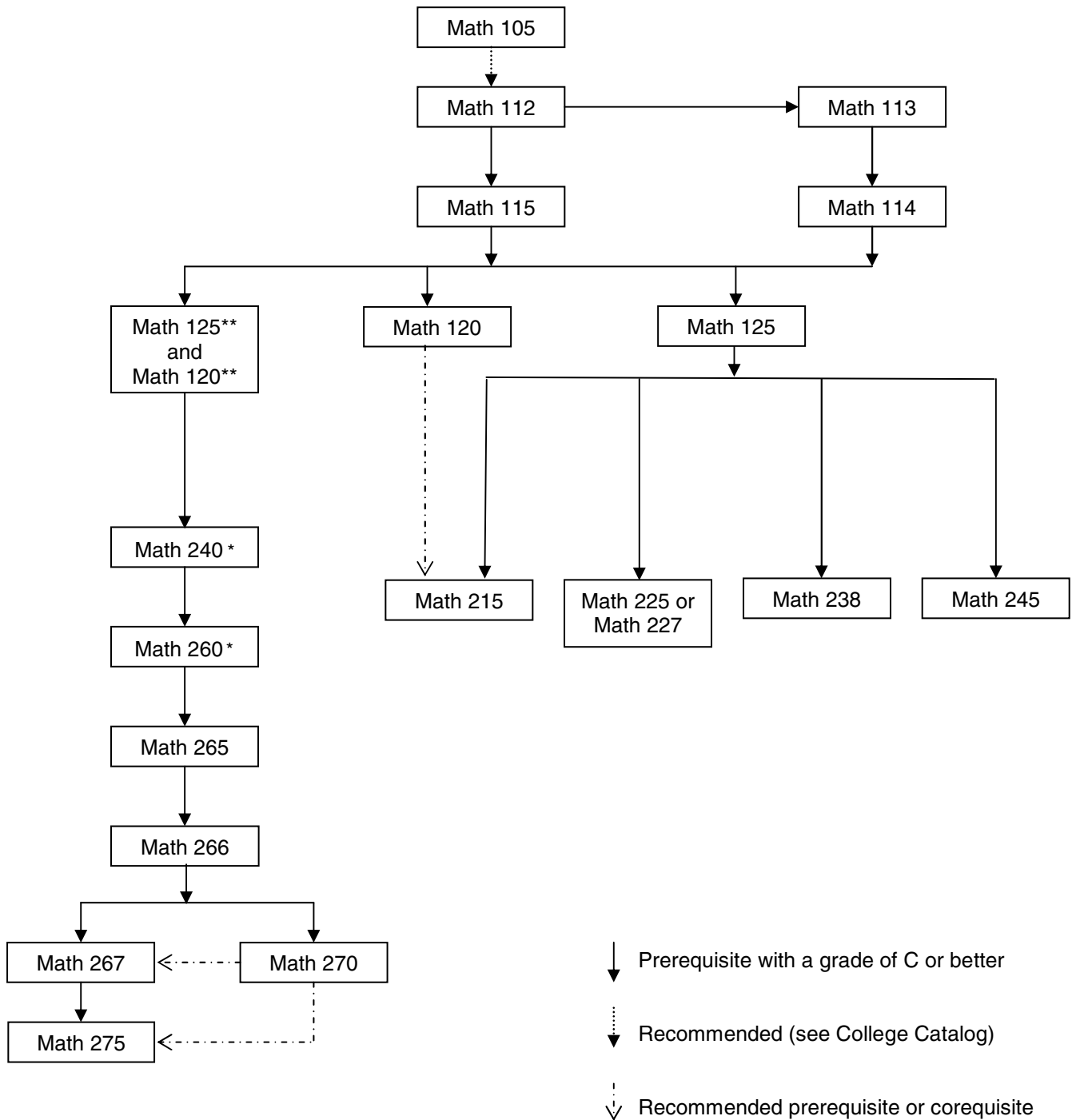
The second course in algebra.

Prerequisite: A grade of C or better in both Math 113 and Math 114, or a grade of C or better in Math 115, or appropriate skill level demonstrated through the math placement process.

Lecture, 5 hours.

This course reviews concepts learned in Math 115 and applies them to more complicated problems; also covers inequalities, absolute values, relations and functions, conic sections, exponential and logarithmic functions.

Math Course Sequence



* Math 240 may be taken concurrently with Math 260

** Math 120 and Math 125 do not need to be taken in the same semester

215 Principles of Mathematics I (3) UC:CSU

Prerequisite: A grade of C or better in Math 125, or appropriate skill level demonstrated through the math placement process.

Recommended: Math 120.

Lecture, 3 hours.

A course designed primarily for students who plan to teach in elementary schools. The course covers the language of sets; elementary logic; systems of numeration; nature of numbers; fundamental operations, relations and functions; integers; rational and real numbers; and various algorithms used in calculations.

UC CREDIT FOR MATH 215 EFFECTIVE FALL 1994.

225 Introductory Statistics (3) UC:CSU (CAN STAT 2)

Prerequisite: A grade of C or better in Math 125, or appropriate skill level demonstrated through the math placement process.

Lecture, 3 hours.

Topics include measures of central tendency, measures of dispersion, graphical techniques, measures of relative position, probability, hypothesis testing, sampling, estimation, correlation, prediction, linear regression, collection and analysis of data and how inferences about a population are made from samples. Identifying, understanding strengths and weaknesses of different experiment designs, knowing the important characteristics of a controlled experiment.

MATH 225 AND STAT 1 COMBINED, MAXIMUM UC CREDIT, ONE COURSE.

227 Statistics (4) UC:CSU

Prerequisite: A grade of C or better in Math 125, or appropriate skill level demonstrated through the math placement process.

Lecture, 4 hours.

This course uses technology to analyze data. Topics include measures of central tendency, measures of dispersion, graphical techniques, measures of relative position, probability, hypothesis testing, sampling, estimation, correlation, prediction, linear regression, collection and analysis of data and how inferences about a population are made from samples. Identifying, understanding strengths and weaknesses of different experiment designs, knowing the important characteristics of a controlled experiment.

238 Calculus for Business and Social Science I (5) UC:CSU

Prerequisite: A grade of C or better in Math 125 or appropriate skill level demonstrated through the math placement process.

Lecture, 5 hours.

Covers the following topics and their applications: algebra review; functions; polynomial, rational, exponential, and logarithmic functions; differentiation and integration; the definite integral.

240 Trigonometry (3) CSU (CAN MATH 8)

Prerequisite: A grade of C or better in both Math 120 and Math 125, or appropriate skill level demonstrated through the math placement process.

Lecture, 3 hours.

Covers trigonometric and inverse trigonometric functions: solving triangles, proving trigonometric identities, solving trigonometric equations, complex numbers including De Moivre's theorem, polar coordinates and graphing polar equations.

245 College Algebra (3) UC:CSU (CAN MATH 10)

Prerequisite: A grade of C or better in Math 125, or appropriate skill level demonstrated through the math placement process.

Lecture, 3 hours.

The course covers: simplification of calculus-type expressions; graphs of polynomial and rational functions; root finding; types and graphs of basic functions including piecewise defined functions; graphing techniques involving translations, reflections, shrinking/stretching; analysis and graphs of conic sections; modeling of calculus-type word problems; exponential and logarithmic functions; sequences and series; and the Binomial Theorem.

MATH 245 COMBINED WITH MATH 260, MAXIMUM UC CREDIT IS 4 UNITS.

260 Precalculus (5) UC:CSU ⚡ (CAN MATH 16)

Prerequisite: A grade of C or better in Math 240, or concurrent enrollment; or appropriate skill level demonstrated through the math placement process.

Lecture, 5 hours.

A precalculus course in college algebra, analytic geometry, functions, theory of equations, induction, sequences and series, binomial theorem, inequalities, matrices, polar coordinates, exponential, logarithmic, and trigonometric functions, and graphing polynomial, rational, and transcendental functions and conic sections.

NOTE: UC allows a maximum of 4 transferable units for this course.

MATH 245 COMBINED WITH MATH 260, MAXIMUM UC CREDIT IS 4 UNITS.

265 Calculus with Analytic Geometry I (5) UC:CSU ⚡ (CAN MATH 18)

Prerequisite: A grade of C or better in both Math 240 and Math 260, or appropriate skill level demonstrated through the math placement process.

Lecture, 5 hours.

Begins a three semester unified treatment of analytic geometry and calculus; it includes both theory and applications of functions and their graphs, limits, continuity, derivatives, rates of change, maxima and minima, mean value theorem, approximations, anti-derivatives, and definite integrals.

MAXIMUM UC CREDIT FOR ANY COMBINATION OF MATH 238/239 OR 265/266 IS ONLY ONE SERIES.

266 Calculus with Analytic Geometry II (5) UC:CSU (CAN MA TH 20)

Prerequisite: A grade of C or better in Math 265.

Lecture, 5 hours.

The second semester in a three semester unified treatment of analytic geometry and calculus; topics included are derivatives and integrals of inverse trigonometric, logarithmic, exponential, and hyperbolic functions, methods of integration; improper integrals; numerical methods; conic sections, polar coordinates, Taylor formulas, indeterminate forms, infinite series, and power series.

MAXIMUM UC CREDIT FOR ANY COMBINATION OF MATH 238/239 OR 265/266 IS ONLY ONE SERIES.

267 Calculus with Analytic Geometry III (5) UC:CSU (CAN MATH 22)

Prerequisite: A grade of C or better in Math 266.

Recommended: A grade of C or better in Math 270 or concurrent enrollment.

Lecture, 5 hours.

The final course in a three-semester unified treatment of calculus and analytic geometry. Includes quadric surfaces, vector and parametric equations in two and three space, curvature, cylindrical and spherical coordinates, partial differentiation, gradient, maxima and minima for functions of several variables, multiple integration, surface integrals, line integrals, Green's Theorem, Divergence Theorem, and Stoke's Theorem.

270 Linear Algebra (3) UC:CSU

(CAN MATH 26)

Prerequisite: A grade of C or better in Math 266.**Lecture, 3 hours.**

Matrix and determinant theory and application to linear systems; vector and inner product spaces; linear transformations; eigenvalue-eigenvector theory; and diagonalization.

275 Ordinary Differential Equations (3) UC:CSU

(CAN MATH 24)

Prerequisite: A grade of C or better in Math 267. *Recommended:* A grade of C or better in Math 270.**Lecture, 3 hours.**

A study of first order and linear differential equations. Special methods for the solutions of these equations developed and applied. Laplace transforms and inverse Laplace transforms are developed and applied. Power series solutions and linear systems of differential equations are included.

185 Directed Study - Mathematics ‡ (1) CSU RPT2**285 Directed Study - Mathematics ‡ (2) CSU****385 Directed Study - Mathematics ‡ (3) CSU***Prerequisite:* Math 265 with a grade of C or better.**Conference, 1 hour per unit.**

Directed study allows students to pursue selected topics in mathematics beyond the normal curriculum under the direction of a supervising instructor.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

UC CREDIT FOR INDEPENDENT STUDY/DIRECTED STUDY COURSES NUMBERED 185, 285, AND 385 IN ANY DEPARTMENT IS NOT AUTOMATIC; CREDIT IS CONTINGENT ON UC CAMPUS EVALUATION AFTER APPLICATION AND ADMISSION. THESE UNITS SHOULD NOT BE USED TOWARD CALCULATION OF THE MINIMUM 60 UNITS NEEDED FOR ADMISSION TO THE UC.

911-921-931-941 Cooperative Education - Mathematics (1-4) CSU

Mathematics is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

MEDIA ARTS (MEDIART)**100 Introduction to Media Arts (3) CSU***Prerequisite:* None.**Lecture, 3 hours.**

Introductory, interdisciplinary survey of the media arts in the entertainment industry: through the creative process from start to finish, from development and pre-production (idea to script) to production (casting, story-boarding, acting and shooting), post-production (editing, visual effects, sound/music), and distribution. Changes in the media owing to new technology and various other forms of production, including but not limited to, video games and Internet direct projects will be covered.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

101 Introduction to Digital Film/Video Production (3) CSU*Prerequisite:* Mediart 100 or Cinema 107 with a grade of C or better or concurrent enrollment in either course.**Lecture, 2 hours; laboratory, 2 hours.**

Comprehensive overview of all aspects of digital film/video production from script concept to finished project, centering on basic theory and its applications via exams, demonstrations, and hands-on digital media exercises.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

102 Digital Media Tools for Filmmaking ‡ (3)*Prerequisite:* None.**Lecture, 2 hours; laboratory, 2 hours.**

A survey of the computer hardware and software currently used in media arts and multi-media. Different operating systems will be presented along with applications used for pixel-based images, vector-based images, 3-D imaging, digital video, animation, sound production, scriptwriting and production management.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

103 Digital Imaging and Motion Graphics for Film and Television ‡ (3) UC:CSU*Prerequisite:* Mediart 102, or Mediart 120, or Mediart 104 with a grade of C or better.**Lecture, 2 hours; laboratory, 2 hours.**

Intermediate level course dealing with motion graphics for film and television using digital imaging and animation software, with an emphasis on Photoshop and After Effects, including layers, masks, filters, animation techniques and output to video, via demonstrations, practicums, and exercises.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

104 Photoshop for Motion Pictures and Television (3) CSU*Prerequisite:* None.**Lecture, 2 hours; laboratory, 2 hours.**

Beginning level course dealing with graphics for Motion Pictures and Television using digital imaging software, with an emphasis on Adobe Photoshop, including layers, masks, filters, text, blend modes, editing tools, animation techniques and output to video applications, via demonstrations, practicums, and exercises.

110 Digital Film/Video Audio ‡ (3) CSU

(Same as Cinema 110)

Prerequisite: Mediart 101 with a grade of C or better.**Lecture, 2 hours; laboratory, 2 hours.**

Intermediate course dealing with all aspects of film/video sound recording, mixing, and editing from theory to application, centering on learning the basic parts and functions of professional motion picture and digital video sound equipment, as well as sound techniques and aesthetics.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

113 Low Budget Filmmaking ‡ (3) CSU*Prerequisite:* None.**Lecture, 3 hours.**

Overview of the administrative and creative aspects of producing low-cost motion pictures from budgeting, financing pre-production to completion, distribution and marketing. Students will prepare an actual film proposal, budget and schedule.

115 Digital Film/Video Cinematography ‡ (3) CSU

Prerequisite: Mediart 101 with a grade of C or better.

Lecture, 2 hours; laboratory, 2 hours.

Intermediate level course dealing with theory, techniques, and aesthetics of digital film / video cinematography and lighting, via demonstrations, exams, practicums, and shooting exercises utilizing a variety of industry-oriented digital appliances, cameras, and accessories.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

118 Directing ‡ (3) CSU

Prerequisite: Mediart 100 or Cinema 107 with a grade of C or better.

Lecture, 3 hours.

Introduction to the art and craft of film directing, with emphasis on the role of the director as a storyteller, the visualization of the script, directing the actors, and the creative interaction with above and below the line personnel. Visual presentations, discussions and exercises will illustrate the director's process during pre-production, production and post-production as well as the beginning steps toward a directing career.

120 Digital Film/Video Editing ‡ (3) CSU

(Same as Cinema 120)

Prerequisite: Cinema 101 with a grade of C or better.

Lecture, 2 hours; laboratory, 2 hours.

Intermediate course covering theory, techniques and aesthetics of film/digital video non-linear editing. A variety of industry-oriented digital applications, with emphasis on Final Cut Pro, will be utilized in the editing exercises.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

121 Advanced Digital Film/Video Editing ‡ (3) CSU

Prerequisite: Mediart 120 with a grade of C or better.

Lecture, 2 hours; laboratory, 2 hours.

Advanced level course dealing with theory, techniques, and aesthetics of digital film/video editing, with emphasis on advanced features of Final Cut Pro including titling/graphics, audio filtering/mixing, and advanced compositing techniques, via demonstrations, practicums, and editing exercises.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

125 Producing for Film, Television and New Media ‡ (3) CSU

Prerequisite: Mediart 100 with a grade of C or better.

Lecture, 3 hours.

Introduction to the creative art and business of film/television producing, with emphasis on the job functions and skills required for the producer to actualize his/her ideas, and vision. The course will cover all the functions of the producer from development, preproduction, production, post production and distribution.

Additionally it will cover the creative interaction of the producer with above/below the line talent; and explore the relationship of producer with the writer, director, actors, studio executives, and all other crew positions.

129 Mythology, Spirituality, and the Art of Story ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

Analytical and critical overview of storytelling, examining the historical and modern role of mythology spirituality, legends and parables, and how they have shaped and formed stories found in today's motion picture and television writings.

130 Advanced Screenwriting ‡ (3) CSU

Prerequisite: Brdcstg 25 with a grade of C or better.

Lecture, 3 hours.

An advanced screenwriting workshop emphasizing the skill and understanding of structure, character and story. Students write an original screenplay or teleplay in a workshop setting, developing an effective and marketable sample of work.

NOTE: Students will be required to provide instructional materials to complete class assignments. Additional time required.

132 Business of Entertainment ‡ (3) CSU

Prerequisite: Mediart 100 with a grade of C or better.

Lecture, 3 hours.

Introduction to the business of film and television, with emphasis on analysis of the deal in all media. The course will cover the process of making the deal, negotiating the deal, the elements in a contract, and a detailed analysis of the contract. The course will cover the roles of the business affairs executives, attorneys, agent, manager, and lawyer, and how they function in the process of deal making in the entertainment industry.

185 Directed Study - Media Arts (1) CSU**285 Directed Study - Media Arts (2) CSU****385 Directed Study - Media Arts (3) CSU**

Prerequisite: Approval of project.

Conference, 1 hour per unit.

Allows student to pursue Directed Study in Media Arts on a contract basis under the direction of a supervising instructor.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

911-921-931-941 Cooperative Education - Media Arts (1-4) CSU

Media Arts is approved for Cooperative Work Experience Education credit.

See Cooperative Education, page 72, for prerequisite, course description and credit limits.

MEDICAL TERMINOLOGY

(See Biology 33)

MERCHANDISING

(See Marketing)

METEOROLOGY (METEOR)**3 Introduction to Weather and Climate (3) UC:CSU**

(Same as Geography 3)

Prerequisite: None.

Lecture, 3 hours.

An introduction to the atmosphere with an emphasis on its properties and physical processes of weather. Forecasting and weather map interpretation, instrumentation and recording of observations are also considered. Weather phenomena and atmosphere are discussed along with short and long-term climate variation, classification systems and the global distribution of climatic types. Other topics include smog, El Nino/La Nina, global warming and the destruction of the ozone layer.

MICROBIOLOGY (MICRO)

1 Introductory Microbiology (5) UC:CSU

Prerequisite: Chem 51 with a grade of C or better.

Lecture, 3 hours; laboratory, 6 hours.

An introduction to microorganisms in air, water, food, soil, and the human body. The biology of microorganisms and concepts in bacteriology, mycology, parasitology, virology, and immunology are introduced.

Students acquire and develop relevant practical and problem solving skills in the laboratory.

MICRO 1 COMBINED WITH MICRO 20, MAXIMUM UC CREDIT IS ONE COURSE.

20 General Microbiology (4) UC:CSU

Prerequisite: Chem 51 with a grade of C or better.

Lecture, 3 hours; laboratory, 3 hours.

The principles of microbiology including sterilization and disinfection, public sanitation factors in infection, and the common infectious diseases, as well as a study of elementary immunology.

MICRO 1 COMBINED WITH MICRO 20, MAXIMUM UC CREDIT IS ONE COURSE.

MEXICAN-AMERICAN STUDIES

(See Chicano Studies)

MOTION PICTURES

(See Cinema)

MUSIC

A list of required and recommended classes for the Music Major is available in either the Counseling office or the Music Department.

Additional repeatability for the Music classes listed is permitted for matriculated Music major students; see department chair or course instructor: Music 190, 250, 261, 321, 322, 323, 324, 414, 453, 501, 531, 563, 604, 614, 624, 654, 701, 711, 721, 731, 751, 771, 775, and 781.

101 Fundamentals of Music (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

Introductory course in reading and writing music. Covers notation, keys, scales, intervals, chords. Includes experience in sight singing and ear training.

111 Music Appreciation I (3) UC:CSU ☉

Prerequisite: None.

Lecture, 3 hours.

A general course designed to develop an understanding of the literature of Western art music heard in concert, motion pictures, radio and television. Emphasis is given to techniques of perceptive listening.

121 Music History and Literature I ‡ (3) UC:CSU

Prerequisite: Music 201 with a grade of C or better.

Lecture, 3 hours.

Designed for Music Majors, but open to the general student. Traces the evolution of music as reflection of the changing culture in the Western world from ancient Greece through the mid 18th century. Covers the changes in the style and techniques of music composition from Gregorian chant through the development of polyphony in the Middle Ages, the sacred and secular music of the Renaissance, and the vocal and instrumental music of the Baroque.

122 Music History and Literature II ‡ (3) UC:CSU

Prerequisite: Music 201 with a grade of C or better.

Lecture, 3 hours.

Designed for music majors, but open to the general student. Traces the evolution of music as reflection of the changing culture in the Western world from the middle of the 18th century to the present. Covers the changes in the style and techniques of music composition from the vocal and instrumental music of the pre-classic era, through the development of the sonata idea in the Classic era, the concept of the inter-relationship of the arts of the Romantic era, to the multi-faceted musical culture of the twentieth century.

136 Music in American Culture ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

A comparative and integrative study of the multi-cultural music styles of the United States. It includes the music's of Native Americans, European Americans, African Americans, Chicano/Latino Americans, and Asian Americans, tracing the development of that music from its historical roots, to its influence on contemporary American music.

137 Music as a Business (3)

Prerequisite: None.

Lecture, 3 hours.

A study of the business aspects of music. The course addresses the skills and knowledge necessary for success in the music business and related careers.

141 Jazz Appreciation (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

A study of the elements of jazz as well as tracing the development and evolution of styles and structure. Listening skills will be developed to recognize the many differences in individual solo as well as jazz ensemble interpretations. A discussion of composing and arranging music in a jazz style will be incorporated.

152 Current Musical Events (1) CSU RPT3

Prerequisite: None.

Lab/performance, 2 hours.

This course enriches the students musical experiences through the presentation of live performances in a variety of concerts and recitals. The events offered include concerts by the various departmental musical organizations, student soloists, faculty recitals and guest artists.

161 Introduction to Electronic Music (3) CSU

Prerequisite: None.

Lecture, 2 hours; laboratory, 2 hours.

This introductory course explores the history and use of electronic equipment, synthesizers, computers and recording equipment in the making of music. Topics include computer hardware and software, modern sequencing techniques, MIDI, and basic digital audio, using the Macintosh platform. It is assumed that the student have some proficiency at the keyboard, as well as the ability to read music.

LOS ANGELES VALLEY COLLEGE
MUSIC DEPARTMENT

COMMERCIAL MUSIC MAJOR

Semester Plan for the A.A. Degree

<p style="text-align: center;">First Semester</p> <p>Music 137 - Music As A Business Music 161 - Introduction to Electronic Music Music 165 - Introduction to Recording Arts Music 200 - Introduction to Music Theory Music 321 - Elementary Piano I Performing Ensemble*</p>	<p style="text-align: center;">Second Semester</p> <p>Music 205 - Commercial Harmony I Music 211 - Musicianship I Music 265 - Recording Arts Workshop Music 322 - Elementary Piano I Performing Ensemble*</p>
<p style="text-align: center;">Third Semester</p> <p>Music 206 - Commercial Harmony II Music 212 - Musicianship II Music 295 - Computer Music Sequencing Performing Ensemble*</p> <p style="text-align: center;"><i>Recommended</i></p> <p>Music 265 - Recording Arts Workshop (repeated second semester)</p>	<p style="text-align: center;">Fourth Semester</p> <p>Music 281 - Commercial Music Techniques I Performing Ensemble*</p> <p>General Education Requirements – 9 Units</p>
<p style="text-align: center;">Fifth Semester</p> <p>Music 282 - Commercial Music Techniques II General Education Requirements – 3 Units</p> <p style="text-align: center;"><i>Recommended</i></p> <p>Music 265 – Recording Arts Workshop (repeated second semester)</p>	

* Performing Ensembles chosen from any of the following: Music 501-College Choir, Music 531-Philharmonic Choir, Music 563-Chamber Singers, Music 721-Orchestra, Music 751-Wind Ensemble, Music 771-Guitar Ensemble, Music 775-Jazz Ensemble.

The courses listed are *major* requirements only. For general education requirements for the A. A. Degree in Commercial Music, see the information on Plan B majors in this catalog.

LOS ANGELES VALLEY COLLEGE
MUSIC DEPARTMENT

MUSIC MAJOR

Semester Plan for the A.A. Degree

<p style="text-align: center;">First Semester</p> <p>Music 152 - Current Musical Events Music 180 - Applied Music Lab Music 181 - Applied Music I Music 200 - Introduction to Music Theory Music 241 - Music Notation and Copying I Music 321 - Elementary Piano I Performing Ensemble*</p> <p><i>Recommended:</i> Music 111 - Music Appreciation or other elective in Music - 3 Units</p> <p>General Education Requirements - 6 Units</p>	<p style="text-align: center;">Second Semester</p> <p>Music 152 - Current Musical Events Music 180 - Applied Music Lab Music 182 - Applied Music II Music 201 - Harmony I Music 211 - Musicianship I Music 322 - Elementary Piano II Performing Ensemble* General Education Requirements - 6 Units</p>
<p style="text-align: center;">Third Semester</p> <p>Music 121 - Music History & Literature I Music 180 - Applied Music Lab Music 183 - Applied Music III Music 202 - Harmony II Music 212 - Musicianship II Music 250 - Music Performance Workshop Music 323 - Elementary Piano III Performing Ensemble* General Education Requirements - 3 Units</p>	<p style="text-align: center;">Fourth Semester</p> <p>Music 122 - History & Literature II Music 180 - Applied Music Lab Music 184 - Applied Music IV Music 203 - Harmony III Music 213 - Musicianship III Music 250 - Music Performance Workshop Music 324 - Elementary Piano IV Performing Ensemble* General Education Requirements - 3 Units</p>

* Performing Ensembles chosen from any of the following: Music 501-College Choir, Music 531-Philharmonic Choir, Music 563-Chamber Singers, Music 721-Orchestra, Music 751-Wind Ensemble, Music 771-Guitar Ensemble, Music 775-Jazz Ensemble.

The courses listed are *major* requirements only. For General Education requirements for the A. A. Degree in Music, see the information on Plan B majors in this catalog.

165 Introduction to Recording Arts (3) CSU

Prerequisite: None.

Lecture, 2 hours; laboratory, 2 hours.

An introduction to the theory and practice of acoustics, audio, and recording. Topics include: the nature of sound; basic acoustics; audio systems and terminology; microphone principles and usage; recording styles; recording studio equipment; multi-track recording procedures.

180 Applied Music Lab (0.5) RPT3

Prerequisite: None. Pass/No Pass only.

Corequisite: Music 181 or 182 or 183 or 184, and 250.

Laboratory, 5 hours.

This course allows students to improve their technical skills on their own instrument or voice as assigned by Applied Music-Individual Study instructors. Basic repertoire and historical performance practice are emphasized.

181 Applied Music I ‡ (0.5) UC:CSU

Prerequisite: Audition.

Corequisite: Music 180 and 250.

Laboratory, 1 hour.

Required for the AA degree in Music. Parallels the offering for and requirements of UC and CSU music majors. Designed to develop study, practice, and performance skills on a student's principal instrument or voice through private lessons.

182 Applied Music II ‡ (0.5) UC:CSU

Prerequisite: Music 181 with a grade of C or better.

Corequisite: Music 180 and 250.

Laboratory, 1 hour.

Required for the AA degree in Music. Parallels the offering for and requirements of UC and CSU music majors. Designed to develop study, practice, and performance skills on a student's principal instrument or voice through private lessons.

183 Applied Music III ‡ (0.5) UC:CSU

Prerequisite: Music 182 with a grade of C or better.

Corequisite: Music 180 and 250.

Laboratory, 1 hour.

Required for the AA degree in Music. Parallels the offering for and requirements of UC and CSU music majors. Designed to develop study, practice, and performance skills on a student's principal instrument or voice through private lessons.

184 Applied Music IV ‡ (0.5) UC:CSU

Prerequisite: Music 183 with a grade of C or better.

Corequisite: Music 180 and 250.

Laboratory, 1 hour.

Required for the AA degree in Music. Parallels the offering for and requirements of UC and CSU music majors. Designed to develop study, practice, and performance skills on a student's principal instrument or voice through private lessons.

190 Music Lab for Practicing (0.5) RPT3

Prerequisite: None. Pass/No Pass only.

Laboratory, 1.5 hours.

This course allows students to improve their technical skills on their own instrument or voice and work on the performance assignments from their theory, instrumental, vocal and musicianship instruction courses. Basic repertoire and historical performance practice are emphasized.

191 Music Listening Lab (.5) RPT3

Prerequisite: None. Pass/No Pass only

Laboratory, 1.5 hours.

This course allows students to develop listening skills through the use of various listening library equipment and audio media.

192 Music Software Lab(.5) RPT3

Prerequisite: None. Pass/No Pass only.

Laboratory, 1.5 hours.

Students gain rudimentary skills in using the computer software associated with music. Students work at their own pace on projects in computer music notation, sequencing, musicianship and part writing.

200 Introduction to Music Theory (4) UC:CSU

Prerequisite: None.

Lecture, 3 hours; lab/performance, 2 hours.

Prepares the music student to qualify for Music 201 and 211 by an intensive study of the notional structure of music, of the elements of singing and ear training, integrated with the development of keyboard skills.

201 Harmony I (3) UC:CSU

Prerequisite: Music 200 with a grade of C or better.

Corequisite: Music 211.

Lecture, 3 hours.

Placement test will test knowledge of music fundamentals, level of musicianship, and piano proficiency comparable to that attained in Music 321. Those without the appropriate skill level in music fundamentals should transfer to Music 200. Those with the necessary music fundamental skills but unable to play the piano may remain in Music 201 and 211 are strongly encouraged to enroll in Music 321. Diatonic harmony includes a study of the primary triads and dominant seventh chord in all inversions; the harmonization of figured basses and of given and original melodies; non-harmonic tones; and harmonic analysis.

202 Harmony II (3) UC:CSU

Prerequisite: Music 201 with a grade of C or better.

Corequisite: Music 212.

Lecture, 3 hours.

Continuation of Music 201 includes: secondary triads; secondary dominants; an introduction to chromatic harmony; secondary seventh chords; secondary dominant chords; the sequence; elementary modulation; non-harmonic tones; harmonic analysis. Piano style writing is introduced.

203 Harmony III ‡ (3) UC:CSU

Prerequisite: Music 202 with a grade of C or better.

Corequisite: Music 213.

Lecture, 3 hours.

Continuation of Music 202 includes a further study of chromatic chords, modulation to distantly related keys. Piano-style writing is given in more complex textures; harmonic analysis of 18th to 20th century compositions; introduction to contemporary techniques of composition.

205 Commercial Harmony I ‡ (3) CSU

Prerequisite: Music 101 or Music 200 with a grade of C or better.

Lecture, 3 hours.

This course makes the transition from traditional harmony to commercial harmony. Terminology, notation, chord structure and usage are covered with an emphasis on part writing using open and closed 4ths, major 6th & 7th chords, minor 7th chords, major, minor, pentatonic and blue scales, modes, blues and commercial chord progressions.

206 Commercial Harmony II ‡ (3) CSU

Prerequisite: Music 205 with a grade of C or better.

Lecture, 3 hours.

Emphasis on harmonizing melodies in popular songs, both in written form and at the keyboard. Topics include establishing and identifying tonal centers, harmonic rhythm, root movement by fifth and step, characteristic chord progressions, voicing patterns and strategies, and use of altered and extended harmonies.

211 Musicianship I (2) UC:CSU

Prerequisite: Music 200 with a grade of C or better.

Corequisite: Music 201.

Lecture, 1 hour; lab/performance, 2 hours.

Placement test will test knowledge of music fundamentals, level of musicianship and piano proficiency comparable to that attained in Music 321. Those without the appropriate skill level in music fundamentals should transfer to Music 200. Those with the necessary music fundamental skills but unable to play the piano may remain in Music 201 and 211 are strongly encouraged to enroll in Music 322. Correlated with the study of harmony in Music 201. Consists of review of music fundamentals; basic concepts of musical interpretation; ear training; sight-singing; melodic, rhythmic, and harmonic dictation; and keyboard harmony.

212 Musicianship II (2) UC:CSU

Prerequisite: Music 211 with a grade of C or better.

Corequisite: Music 202.

Lecture, 1 hour; lab/performance, 2 hours.

Correlated with the study of harmony in Music 202. Continuation of Music 211 presents concepts of musical interpretation; ear training; sight-singing; melodic, rhythmic, and harmonic dictation; keyboard harmony; and elementary conducting.

213 Musicianship III ‡ (2) UC:CSU

Prerequisite: Music 212 with a grade of C or better.

Corequisite: Music 203.

Lecture, 1 hour; lab/performance, 2 hours.

Correlated with the study of harmony in Music 203. Continuation of Music 212 presents concepts of musical interpretation; sight reading and conducting of varied scores; advanced melodic, harmonic, rhythmic dictation; keyboard harmony.

214 Musicianship IV ‡ (2) UC:CSU

Prerequisite: Music 211 with a grade of C or better.

Lecture, 1 hour; lab/performance, 2 hours.

A workshop designed for specialized work in all levels of musicianship, with emphasis placed upon developing and maintaining skills in singing, keyboard harmony, dictation (melodic and harmonic), and conducting, commensurate with those expected of the students at their individual course levels in music theory.

241 Music Notation and Copying I (1) CSU

Prerequisite: None.

Lecture, 1 hour.

Instruction and hands-on experience in the techniques of music, chord symbol and lyric notation. Training in lead sheet, piano, and master rhythm score construction, as well as score and part layout, as it is applied using the computer. It is assumed that the student has the ability to read music and has basic skills in computer use.

242 Music Notation and Copying II (1) CSU

Prerequisite: Music 241 with a grade of C or better.

Lecture, 1 hour.

Continuation of Music 241. Advanced instruction and hands-on experience in the techniques of music, chord symbol and lyric notation. Training in full orchestral and big band score, as well as score and part layout, as it is applied using the computer. It is assumed that the student has the ability to read music and has basic skills in computer use.

250 Music Performance Workshop (0.5) CSU RPT3

Prerequisite: Music 322, or 412, or 602, or 612, or 622, or 632, or 652 with a grade of C or better.

Required of all students in A.A. transfer program and open to others.

Lab/performance, 3 hours.

Students work in a master class environment, rehearsing classical music appropriate to their instrument/voice and skill level. A final public performance is given. Concert attendance is required.

251 Jazz Improvisation Workshop (2) RPT 3

Prerequisite: Music 206 with a grade of C or better. Students are encouraged to enroll at registration. A successful audition on the first day of class is required for continued enrollment.

Lecture, 1 hour; lab, 2 hours.

Instruction in creation of original musical lines in jazz, rock, Latin and popular American music. Includes harmonic and rhythmic analysis of classic jazz solos, score study and live performance in a group setting.

265 Recording Arts Workshop (3) CSU RPT2

Prerequisite: Music 165 with a grade of C or better.

Lecture, 2 hours; laboratory, 2 hours.

This course presents the basic techniques of recording and mixing. Emphasis is placed on multi-track recording. The student will have the opportunity to prepare for and participate in recording sessions.

271 Songwriters Workshop I (3) CSU RPT 1

Prerequisite: None.

Lecture, 3 hours.

The craft of songwriting, using rhythm section, electronics and vocals in a variety of commercial styles.

281 Commercial Music Techniques I (3) CSU

Prerequisite: Music 206 with a grade of C or better.

Lecture, 2 hours; lab/performance, 2 hours.

Emphasis on writing for rhythm section, jazz combo and big band. Projects include lead sheet, rhythm charts, three horn and big band arrangements. Projects are performed and recorded. Students conduct their projects and their recording sessions.

282 Commercial Music Techniques II (3) CSU

Prerequisite: Music 206 and 281 with a grade of C or better.

Lecture, 2 hours; lab/performance, 2 hours.

A continuation of Music 281, focusing on development of writing techniques for live and studio orchestra, as well as project studio. Emphasis is on larger forms, incorporating vocal arranging, synthesizer sweetening, and multi-track recording overdubs, in a variety of contemporary styles. Introduction to scoring cues for film, television and video in a project studio setting.

299 Music Honors (1) CSU RPT3

Prerequisite: Designed for the advanced music student with project approval.

Laboratory, 3 hours.

Provides for the advanced student in music an opportunity for concentrated independent study in selected areas under the direct supervision of an instructor. Projects are designed to increase the students knowledge of music most pertinent to their individual interests and talents.

UC CREDIT FOR MUSIC 299 IS NOT AUTOMATIC; AS AN INDEPENDENT STUDY COURSE, UC CREDIT IS CONTINGENT ON UC CAMPUS EVALUATION AFTER APPLICATION AND ADMISSION.

321 Elementary Piano I (2) UC:CSU

Prerequisite: None.

Lecture, 1 hour; lab/performance, 2 hours. Beginning repertoire, technique and music reading in five-finger positions; selected scales; melody harmonization.

322 Elementary Piano II (2) UC:CSU

Prerequisite: Music 321 with a grade of C or better.

Lecture, 1 hour; lab/performance, 2 hours. Continuation of Music 321 topics with extended hand positions; transposition; selected exercises.

323 Elementary Piano III (2) UC:CSU

Prerequisite: Music 322 with a grade of C or better.

Lecture, 1 hour; lab/performance, 2 hours. Continuation of Music 322 topics; repertoire on level of Beethoven Sonatina in G; Bach Minuet in G.

324 Elementary Piano IV (2) UC:CSU

Prerequisite: Music 323 with a grade of C or better.

Lecture, 1 hour; lab/performance, 2 hours. Continuation of Music 323 topics; repertoire on level of Chopin Prelude in E minor; Bach Prelude 1.

411 Elementary Voice I (2) UC:CSU

Prerequisite: None.

Lecture, 1 hour; lab/performance, 2 hours. Basic techniques of vocal production are introduced. The student is directed toward proper stance and breathing techniques, increased vocal freedom, and improvement of articulation and tone. The course introduces standard solo literature and offers performing experience.

412 Elementary Voice II (2) UC:CSU

Prerequisite: Music 411 with a grade of C or better.

Lecture, 1 hour; lab/performance, 2 hours. Continuation of basic vocal technique, further practice and performance experience. Basic Italian repertoire is introduced.

413 Elementary Voice III (2) UC:CSU

Prerequisite: Music 412 with a grade of C or better.

Lecture, 1 hour; lab/performance, 2 hours. Continued voice building, looking toward the possibilities of increasing range, richness, and expressiveness. A song repertoire of moderate difficulty, including art songs in English, Italian, and German, or French is memorized and performed in class.

414 Elementary Voice IV (2) UC:CSU

Prerequisite: Music 413 with a grade of C or better.

Lecture, 1 hour; lab/performance, 2 hours. Further experience with technique, repertoire and performance.

453 Musical Theater Repertoire for Singers ‡ (0.5) UC:CSU

Prerequisite: None. Students are encouraged to enroll at registration. A successful audition on the first day of class is required for continued enrollment.

Lecture, 1 hour; lab/performance, 2 hours. This course is designed to teach fundamental vocal techniques as utilized in a Broadway musical. Instruction includes basic body movement, acting technique, interpretation of Broadway song literature and the skill of auditioning. Students are required to prepare a final project excerpted from a standard work. All performances are evaluated.

501 College Choir (0.5) UC:CSU RPT3

Prerequisite: None.

Lab/performance, 3 hours. Introduction to choral ensemble singing. Emphasis is on vocal technique and choral elements such as blend, intonation, diction, and music reading. Repertory is chosen on the basis of group ability and represents historical and current styles of music.

521 Concert Choir ‡ (.5) UC:CSU RPT3

Prerequisite: None. Students are encouraged to enroll at registration. A successful audition on the first day of class is required for continued enrollment.

Lab/performance, 5 hours. Development of a repertoire of standard literature for mixed voices; public concerts; emphasis on progressive development of ability to read and interpret the musical score.

531 Philharmonic Choir (0.5) UC:CSU RPT3

Prerequisite: None. Students are encouraged to enroll at registration. A successful audition on the first day of class is required for continued enrollment.

Lab/performance, 3 hours.

The Philharmonic Choir studies and performs major choral works such as oratorios, cantatas, and masses, as well as a formal Pops concert. It includes public presentations with orchestra and soloists.

563 Chamber Singers (1) UC:CSU RPT3

Prerequisite: None. Students are encouraged to enroll at registration. A successful audition on the first day of class is required for continued enrollment.

Lab/performance, 5 hours.

The Chamber Singers is a carefully selected group which prepares representative repertoire including motets, chansons, madrigals, pops, multicultural, and vocal ensemble music of more recent periods in music history for public performance.

601 Brass Instrument Instruction I (2) UC:CSU

Prerequisite: None.

Lecture, 1 hour; lab/performance, 2 hours. Beginning instruction on the brass instruments. Recommended for students interested in learning an instrument or a second instrument, instrumental writing, or those students planning to teach instrumental music.

602 Brass Instrument Instruction II (2) UC:CSU

Prerequisite: Music 601 with a grade of C or better.

Lecture, 1 hour; lab/performance, 2 hours. Intermediate instruction on the brass instruments. Recommended for students interested in improving their proficiency or in learning a second instrument, or instrumental writing, or those students planning to teach instrumental music.

603 Brass Instrument Instruction III (2) UC:CSU

Prerequisite: Music 602 with a grade of C or better.

Lecture, 1 hour; lab/performance, 2 hours. A continuation of Music 602. Advanced instruction on the brass instruments. Recommended for students interested in improving their proficiency or in learning a second instrument, or instrumental writing, or those students planning to teach instrumental music.

604 Brass Instrument Instruction IV (2) UC:CSU

Prerequisite: Music 603 with a grade of C or better.

Lecture, 1 hour; lab/performance, 2 hours. A continuation of Music 603. More advanced instruction on the brass instruments. Recommended for students interested in improving their proficiency or in learning a second instrument, or instrumental writing, or those students planning to teach instrumental music.

611 String Instrument Instruction I (2) UC:CSU

Prerequisite: None.

Lecture, 1 hour; lab/performance, 2 hours. Beginning instruction on the string instruments: violin, viola, cello, and string bass. Recommended for students interested in learning an instrument or a second instrument, instrumental writing, or those planning to teach instrumental music.

612 String Instrument Instruction II (2) UC:CSU

Prerequisite: Music 611 with a grade of C or better.

Lecture, 1 hour; lab/performance, 2 hours. A continuation of Music 611. Intermediate instruction on the string instruments: violin, viola, cello, and string bass. Recommended for students interested in learning an instrument or a second instrument, instrumental writing, or those planning to teach instrumental music.

613 String Instrument Instruction III (2) UC:CSU

Prerequisite: Music 612 with a grade of C or better.

Lecture, 1 hour; lab/performance, 2 hours. A continuation of Music 612. Advanced instruction on the string instruments: violin, viola, cello, and string bass. Recommended for students interested in learning an instrument or a second instrument, instrumental writing, or those planning to teach instrumental music.

614 String Instrument Instruction IV (2) UC:CSU

Prerequisite: Music 613 with a grade of C or better.

Lecture, 1 hour; lab/performance, 2 hours. A continuation of Music 613. Advanced instruction on the string instruments: violin, viola, cello, and string bass. Recommended for students interested in learning an instrument or a second instrument, instrumental writing, or those planning to teach instrumental music.

621 Woodwind Instrument Instruction I (2) UC:CSU

Prerequisite: None.

Lecture, 1 hour; lab/performance, 2 hours. Beginning instruction on woodwind instruments. Recommended for students interested in learning an instrument or a second instrument, instrumental writing, or those planning to teach instrumental music.

622 Woodwind Instrument Instruction II (2) UC:CSU

Prerequisite: Music 621 with a grade of C or better.

Lecture, 1 hour; lab/performance, 2 hours. A continuation of Music 621. Intermediate instruction on woodwind instruments. Recommended for students interested in learning an instrument or a second instrument, instrumental writing, or those planning to teach instrumental music.

623 Woodwind Instrument Instruction III (2) UC:CSU

Prerequisite: Music 622 with a grade of C or better.

Lecture, 1 hour; lab/performance, 2 hours. A continuation of Music 622. Advanced instruction on woodwind instruments. Recommended for students interested in learning an instrument or a second instrument, instrumental writing, or those planning to teach instrumental music.

624 Woodwind Instrument Instruction IV (2) UC:CSU

Prerequisite: Music 623 with a grade of C or better.

Lecture, 1 hour; lab/performance, 2 hours. A continuation of Music 623. Advanced instruction on woodwind instruments. Recommended for students interested in learning an instrument or a second instrument, instrumental writing, or those planning to teach instrumental music.

650 Beginning Guitar (2) UC:CSU

Prerequisite: None.

Lecture, 1 hour; lab/performance, 2 hours. Learning the basics of guitar: chords, strums, notes. Easy songs to give the student a firm grasp of the instrument. Student must possess guitar.

651 Classical Guitar I (2) UC:CSU

Prerequisite: None.

Lecture, 1 hour; lab/performance, 2 hours. Classical techniques of right and left hand development, beginning repertoire; note reading, preparation for solo and ensemble performance. Student must possess nylon string guitar.

652 Classical Guitar II (2) UC:CSU

Prerequisite: Music 651 with a grade of C or better.

Lecture, 1 hour; lab/performance, 2 hours. Intermediate classical techniques of right and left hand development, intermediate repertoire; note reading, preparation for solo and ensemble performance. Student must possess guitar.

653 Classical Guitar III (2) UC:CSU

Prerequisite: Music 652 with a grade of C or better.

Lecture, 1 hour; lab/performance, 2 hours. Continuation of Music 652. More advanced classical techniques of right and left hand development, more extensive repertoire; note reading, preparation for solo and ensemble performance. Student must possess guitar.

654 Classical Guitar IV (2) UC:CSU

Prerequisite: Music 653 with a grade of C or better.

Lecture, 1 hour; lab/performance, 2 hours. Continuation of Music 653. Advanced classical techniques of right and left hand development, more extensive repertoire; note reading, preparation for solo and ensemble performance. Student must possess guitar.

661 Commercial Guitar I ‡ (2) CSU

Prerequisite: Possession of own nylon or steel string guitar.

Lecture, 1 hour; lab/performance, 2 hours. This course is designed for the student interested in popular and jazz guitar technique. Styles and accompaniment patterns will be studied as well as ensemble playing in jazz band and combos.

662 Commercial Guitar II ‡ (2) CSU

Prerequisite: Music 661 with a grade of C or better.

Lecture, 1 hour; lab/performance, 2 hours. This course is designed for the intermediate student interested in popular and jazz guitar technique. Styles and accompaniment patterns will be studied as well as ensemble playing in jazz band and combos. Student must possess guitar.

**701 Instrumental Ensemble ‡
(0.5) UC:CSU RPT3**

Prerequisite: None. Students are encouraged to enroll at registration. A successful audition on the first day of class is required for continued enrollment.

Lab/performance, 3 hours.

This course involves wind, percussion, string and keyboard personnel in various ensemble experiences; from a large wind ensemble to small group ensembles using wind, percussion, string, and keyboard personnel in a variety of combinations.

**705 Chamber Music ‡
(0.5) UC:CSU RPT3**

Prerequisite: None. Students are encouraged to enroll at registration. A successful audition on the first day of class is required for continued enrollment.

Lab/performance, 3 hours.

This course includes pianists, string, wind, and percussion players. Students are given experience in various types of chamber music combinations, including chamber orchestra. A public performance is given.

**711 Rehearsal Orchestra ‡
(0.5) UC:CSU RPT3**

Prerequisite: None. Students are encouraged to enroll at registration. A successful audition on the first day of class is required for continued enrollment.

Lecture/lab/performance, 3 hours.

Preparation for concert appearances. Development of individual technical and artistic abilities, a more discriminative understanding of music through experience with a wide range of orchestral literature, and the opportunity to perform with more advanced players.

721 Orchestra (1) UC:CSU RPT3

Prerequisite: None. Students are encouraged to enroll at registration. A successful audition on the first day of class is required for continued enrollment.

Lecture, 1 hour; lab/performance, 3 hours.

Emphasis on performance. Opportunity to expand repertoire and reading of standard symphonic literature. Participation in a symphonic season of no less than four programs a year.

**731 Rehearsal Band ‡
(0.5) UC:CSU RPT3**

Prerequisite: None.

Lab/performance, 3 hours.

Emphasis on developing skills in organizing, rehearsing and performing in a variety of small combo settings. Special attention is given to choice and presentation of musical materials, improvisation, live performance, and interaction with student arrangers.

741 Band ‡ (1) UC:CSU RPT3

Prerequisite: None. Students are encouraged to enroll at registration. A successful audition on the first day of class is required for continued enrollment.

Lecture, 1 hour; lab/performance, 3 hours.

Preparation for performances: marching and concert activities. Development of individual technical and artistic abilities through experience with a wide range of band literature.

**751 Wind Ensemble
(0.5) UC:CSU RPT3**

Prerequisite: None. Students are encouraged to enroll at registration. A successful audition on the first day of class is required for continued enrollment.

Lab/performance, 3 hours.

Preparation for performances of concert band repertoire. Development of individual technical and artistic abilities through experience with a wide range of band literature.

**771 Guitar Ensemble
(0.5) UC:CSU RPT3**

Prerequisite: None. Students are encouraged to enroll at registration. A successful audition on the first day of class is required for continued enrollment.

Lab/performance, 3 hours.

This course acquaints the student with the problems involved in ensemble performance. Intonation, rhythmic togetherness, balance, style and the ability to conform to a team effort in musical performance.

775 Jazz Ensemble (1) UC:CSU RPT3

Prerequisite: None. Students are encouraged to enroll at registration. A successful audition on the first day of class is required for continued enrollment.

Lab/performance, 3 hours.

Provides experience in dance band/studio band performance. Rehearsal of standard, and special arrangements, with emphasis on sight reading, intonation, jazz feel and improvisation; preparation for public performances; serves as a reading workshop for student arrangers.

780 Jazz Combo Workshop (1) CSU RPT 3

Prerequisite: None. Students are encouraged to enroll at registration. A successful audition on the first day of class is required for continued enrollment.

Lab, 3 hours.

Students will organize musical pieces, rehearse and perform in a variety of small combo settings. Emphasis is on presentation, live performance and interaction with student arrangers.

**781 Studio Jazz Band ‡
(0.5) UC:CSU RPT3**

Prerequisite: None.

Students are encouraged to enroll at registration. However, instructor approval and/or audition is required.

Lecture, 1 hour; lab/performance, 3 hours.

Workshop experience in various aspects of technique and interpretation as applied to commercial music and jazz. Public performance experience is included.

**185 Directed Study -
Music (1) CSU RPT2****285 Directed Study - Music (2) CSU
385 Directed Study - Music (3) CSU**

Prerequisite: None.

Conference, 1 hour per unit.

Allows students to pursue Directed Study in Music on a contract basis under the direction of a supervising instructor.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

UC CREDIT FOR INDEPENDENT STUDY/DIRECTED STUDY COURSES NUMBERED 185, 285, AND 385 IN ANY DEPARTMENT IS NOT AUTOMATIC; CREDIT IS CONTINGENT ON UC CAMPUS EVALUATION AFTER APPLICATION AND ADMISSION. THESE UNITS SHOULD NOT BE USED TOWARD CALCULATION OF THE MINIMUM 60 UNITS NEEDED FOR ADMISSION TO THE UC.

**911-921-931-941 Cooperative
Education - Music (1-4) CSU**

Music is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

**NUMERICAL CONTROL
(NUM CON)**

(Automated and Computer Controlled Machining)

**1 Numerical Control Manual
Programming & Machine Operation
(3) RPT1**

Prerequisite: None.

Lecture, 1 hour; laboratory, 5 hours.

Introduction to computerized numerical control with emphasis on set-up and operation of CNC machine tools. Studies the principles and concepts of CNC. Provides the practical experience in the operation of both the HAAS lathe and mill.

21 Advanced Manual CNC Lathe Programming & Introduction to CAM (3)

Prerequisite: None.

Lecture, 1 hour; laboratory, 5 hours.

Continues the study of N/C" part program preparation begun in Numerical Control 1 and develops the techniques of planning for efficient operation sequencing. Compares N/C", CNC and DNC; including examination of these techniques in relation to CAD/CAM. Introduces computer-assisted N/C" part programming languages, emphasizes writing and running CNC Lathe programs, machining metal parts.

22 Advanced Manual CNC Mill and Microcomputer Assisted Programming (3)

Prerequisite: None.

Lecture, 1 hour; laboratory, 5 hours.

Acquaints the advanced student with three axis CNC applications involving manufacturing planning, tooling design &/or specification, CNC mill programs employing full 3-axis positioning and implementation of programs using CIC mill equipment in the N/C" lab. Students will learn and practice micro-computer assisted part programming of CNC mill using CAPP III software.

23 Computer Aided Manufacturing Programming of CNC Equipment (3)

Prerequisite: None.

Lecture, 2 hours; laboratory 4 hours.

Use of computers either on the numerical control (N.C.) equipment or computer assisted manufacturing (CAM) computers to program and manufacture parts. Advanced programming will be taught using E-Z CAM and Mazatrol controls and Fanuc control.

25 Numerical Control Computer Programming (3)

Prerequisite: None.

Lecture 3 hours.

Introduces the student to the computer language used by part programmers. Emphasis is placed upon the APT language for two and three axis point-to-point and continuous path contouring machines. Purpose, program nomenclature and symbols, geometric definitions, applications, computing, motion instructions, sequences, repetitive programming techniques and special capabilities are discussed. Students will write their own practice programs. For related courses; see Electronics.

26 Advanced Numerical Control Computer Programming - APT (3)

Prerequisite: None.

Lecture 3 hours.

Reviews and continues the study of the APT program syntax for two and three axis continuous path numerically controlled contouring machines. Explores multi-axis programming for four and five axis continuous path contouring machines. Implications of tool axis vectors, swarfed drive surfaces, canted part surfaces and generating points and vectors are discussed. Students write their own practice N/C" programs.

911-921-931-941 Cooperative Education - Numerical Control (1-4)

Numerical Control is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

NURSING

714 Orientation to Nursing (1) CSU

Prerequisite: None.

Lecture, 1 hour.

Introduces the student to the roles and responsibilities of the Registered Nurse (RN). Provides a survey of education programs, career opportunities and the health care system.

NOTE: This course does not count toward admission points and is not a part of the required nursing curriculum.

727 Pharmacology Therapy in Nursing ‡ (2) CSU

Prerequisite: None.

Recommended: Licensed Vocational Nurses, Registered Nurses, nursing students, or pre-nursing students.

Lecture, 2 hours.

Study of pharmacological agents related to pathophysiology.

742 Transition to Associate Degree Nursing (2)CSU

Prerequisite: None.

Highly Recommended: For active LVNs and transferring RN nursing students upon nursing department approval.

Lecture, 2 hours.

This course is designed to orient the LVN and other advanced placement nursing students to the LAVC Nursing Program. The content includes the nursing process, the Functional Health Patterns, the Neuman Health Systems Model, the roles and responsibilities of the R.N., and specific subacute medical-surgical materials.

762 Physical Assessment Skills ‡ (3)

Prerequisite: None.

Recommended: Licensed Vocational Nurses, Registered Nurses, nursing students, or pre-nursing students.

Lecture, 3 hours.

This course focuses on the process of health assessment using the tools of history taking, physical examination and diagnostic tests for data collection. Some attention will be given to common abnormalities. Includes lecture, demonstration and supervised practice of physical assessment methodology.

799 Health Science Learning Center and Laboratory (1) RPT3

Prerequisite: None.

Laboratory, 3 hours.

Enrollment is offered to students currently or previously enrolled in course work from the Health Science Department. Nursing 799 allows students to practice simulated nursing care and/or health-client care in a simulated hospital setting. Nursing 799 consists of a variety of computer and/or video programs to assist the learner to improve comprehension, synthesis, and/or critical thinking skills, and improve clinical skills. Students enrolled will be able to practice at their own pace. This course is offered on a Credit, No Credit basis, open entry/open exit.

185 Directed Study - Nursing (1) RPT2

285 Directed Study - Nursing (2)

385 Directed Study - Nursing (3)

Prerequisite: Enrollment in Nursing Program or consent of Health Science Department.

This course is offered on a Credit/No Credit basis only, on an open entry, open exit basis.

Conference, 1 hour per unit.

Allows students to pursue Directed Study in Nursing on a contract basis under the direction of a supervising instructor.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

911-921-931-941 Cooperative Education - Nursing (1-4) CSU

Nursing is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

NURSING SCIENCE (NRSCE)

101 Introduction to Nursing (3) CSU

Prerequisites: English 101, Physio 1 or Physio 8, Micro 1 or Micro 20 (must have High School Chemistry or College Chemistry), Anatomy 1, Psych 1 and Psych 41 with a grade of C or better.

Lecture, 1 hour; laboratory, 6 hours.

This course is an introduction to the philosophy of nursing, nursing history, Maslow's hierarchy of needs, and legal and ethical issues in nursing. Concurrent with the theory, the nursing student will have beginning client care experience in the skills lab and hospital settings.

102 Fundamentals of Nursing (3) CSU

Prerequisites: NRSCE 101, and NRSCE 103 with a grade of C or better.

Lecture, 1 hour; laboratory, 6 hours.

This course will be an introduction to medical-surgical nursing concept issues related to care to clients based on Maslow's Hierarchy of Needs. The course content will be presented with the framework of health-continuum, and normal physiological, psychological, and sociocultural need of the client.

103 Nursing Process (1) CSU

Prerequisites: English 101, Physio 1 or Physio 8, Micro 1 or Micro 20 (must have High School Chemistry or College Chemistry), Anatomy 1, Psych 1 and Psych 41 with grades of C or better.

Lecture, 1 hour.

This course is designed to acquaint the student with the nursing process components such as assessment, nursing diagnosis, planning, implementation and evaluation. Included in the course is a discussion about client's multiple needs. Critical thinking concepts are integrated in the course to enable the student to make appropriate nursing judgments.

104 Nursing Communication (1) CSU

Prerequisites: NRSCE 101 and NRSCE 103 with grades of C or better.

Lecture, 1 hour.

The course is designed to acquaint the student to the elements of communication process and how communication is affected by culture. Included in the course is a discussion on how the student can meet the client's communication needs, which will require the application of nursing process and critical thinking. Content related to nurse-client relationships, therapeutic/non-therapeutic communications, self concept, anxiety, assertiveness, homeostasis, stress, adaptation, crisis intervention, and loss and grief will be discussed.

105 Nursing Pharmacology (2) CSU

Prerequisites: English 101, Physio 1 or Physio 8, Micro 1 or Micro 20 (must have High School Chemistry or College Chemistry), Anatomy 1, Psych 1 and Psych 41 with grades of C or better.

Lecture, 1.5 hours; laboratory, 1.5 hours.

This course focuses on the effects of drug therapy on human body systems. The body systems include: the central nervous system, autonomic nervous, cardiovascular, renal, endocrine, respiratory and gastrointestinal systems. Also included are anti-infective, anti-inflammatory, immune and biological modifiers, chemotherapeutic, hematological, ophthalmic and optic agents. In addition this course will cover laboratory practice of medication administration.

106 Medical-Surgical Nursing I (5) CSU

Prerequisites: NRSCE 102, NRSCE 104, and NRSCE 105 with grades of C or better.

Lecture, 3 hours; laboratory, 6 hours.

This basic course focuses on the nursing care of the adult client with common disorders. Emphasis will be placed on nursing care of the client with endocrine, gastrointestinal, cardiac and respiratory disorders. Problems associated with fluid and electrolytes, acid balance, infections and the stress response will be addressed. Working as an effective member of the health care team and beginning leadership skills will be presented. Emphasis will be placed on classroom and clinical application of critical thinking and caring therapeutic nursing interventions in acute, chronic and community health care settings. Basic concepts and issues will be examined including the recognition of the impact of cultural and ethnic diversity of the client.

107 Medical-Surgical Nursing II (5) CSU

Prerequisites: NRSCE 106, NRSCE 109, and NRSCE 110 with grades of C or better.

Lecture, 3 hours; laboratory, 6 hours.

This intermediate level medical/surgical nursing courses focuses on nursing care of adult clients with high acuity problems within hospital and community settings. Emphasis will be placed on assessment of risk factors affecting clients health and wellness. Students will implement the nursing process and utilize Maslow's human needs concepts to prioritize client needs for the following diseases/disorders: endocrine, renal, cardiovascular, gastrointestinal, central nervous system, sleep and malignancies. Related fluid and electrolytes and acid base balance needs will be addressed. Issues regarding client advocacy, spiritual and cultural diversity as well as communication with members of the health care team, and intermediate level leadership skills will be emphasized.

108 Medical-Surgical Nursing III (3) CSU

Prerequisites: NRSCE 107 and NRSCE 111 with grades of C or better.

Lecture, 1.5 hours; laboratory, 4.5 hours.

This course focuses on the role of the Nurse as Provider of Care, Manager of Care, and Member of the Profession for medical-surgical clients within a variety of setting. Emphasis will be on classroom and clinical application of critical thinking and caring therapeutic nursing interventions in chronic, acute, critical care and community health care setting. Concepts and issues examined include: the impact of cultural beliefs and ethnic diversity of the adult client; identification of risk factors effecting the client's health and wellness; the advanced role(s) of the nurse; and advanced technological and psychomotor skills necessary, to care for clients with multi-system organ dysfunction of the cardiovascular, respiratory, renal, gastrointestinal, neurological and the immune systems.

109 Gerontology and Community Based Nursing (2) CSU

Prerequisites: NRSCE 105, NRSCE 102, and NRSCE 104 with grades of C or better.

Lecture, 1 hour; laboratory, 3 hours.

This course focuses on nursing care of the older adult client with common health and wellness needs. Emphasis will be on classroom and clinical application of critical thinking and caring therapeutic nursing interventions in acute, chronic and community health care settings for the older adult population. Concepts and issues examined include: impact of cultural beliefs and ethnic diversity of the older adult, legal, ethical and social issues, nurse-client relationship, biologic/social and psychological, theories of aging, pharmacological issues in aging, physical assessment of normal aging changes/functional consequences, common chronic illness/implications/ risk factors affecting the older client's health and wellness, end-of-life care/issues.

110 Psychiatric-Mental Health Nursing (3) CSU

Prerequisites: NRSCE 102, NRSCE 104, and NRSCE 105 with grades of C or better.

Lecture, 1.5 hours; laboratory, 4.5 hours.

This course focuses on the application of the nursing process, critical thinking and caring therapeutic interventions in acute, chronic and community-based Psychiatric-Mental Health settings. Basic Mental Health concepts and issues examined include: cultural beliefs and ethnic diversity of the client/nurse, legal/ethical issues, therapeutic nurse-client relationship, self-awareness, neuro-bio-psychosocial theories/therapies and factors affecting health and wellness of clients with common psychiatric-mental health needs/disorder across the lifespan ie. Anxiety, Mood, Thought, Cognitive, Personality and Eating disorders across the lifespan. Emphasis is placed on client advocacy, and collaboration with members of the Mental Health care team.

111 Reproductive Nursing and Women's Health (3.5) CSU

Prerequisites: NRSCE 106, NRSCE 109 and NRSCE 110 with grades of C or better.

Lecture, 2 hours; laboratory, 4.5 hours.

This course focuses on the nurse as a provider of care, manager of care and a member of the profession in a variety of maternal/child settings. Course content includes client needs during the antenatal, intrapartal, postpartal, neonatal period and reproductive health cycle. Building upon Maslow's Hierarchy of Needs, course content in Maternal Child Nursing will be presented within the framework of the wellness/illness continuum of the client during the reproductive and post reproductive years.

112 Care of Children and Family (3.5) CSU

Prerequisites: NRSCE 107 and NRSCE 111 with grades of C or better.

Lecture, 2 hours; laboratory, 4.5 hours.

This course focuses on the nurse as a provider of care, manager of care and member of the profession in a variety of settings involving children and families. Course content includes physiological, psychological, developmental and socio-cultural needs of children and families. Building upon Maslow's Hierarchy of Needs and the Nursing Process, course content in Pediatric Nursing will be presented within the framework of the wellness/illness continuum of the client and family from birth through adolescence.

114 Nursing Leadership and Management (3) CSU

Prerequisites: NRSCE 108 and NRSCE 112 with grades of C or better.

Lecture, 0.5 hours; laboratory, 7.5 hours.

This course provides an overview of theoretical and clinical concepts needed for the transitional role of the graduation Associate Degree nurse as a provider of care, manager of care and member of the profession. Concepts of Effective Leadership Styles, Advanced Therapeutic Communication, Delegation, Conflict Resolution, Time Management, Nursing Ethics, and Professional Issues, including the recognition of the impact of cultural beliefs and ethnic diversity of the client are analyzed and compared in this final nursing course. Emphasis is placed on classroom and clinical application of critical thinking and caring therapeutic nursing interventions in acute, chronic and community based health care settings using advanced technological and psychomotor skills. Utilizing the nursing process and advanced critical thinking, the learner/student implements the role of the beginning associate degree nurse as coordinator of care including theory and clinical accountability to provide quality care in various environments.

115 Skills Enhancement Lab (1)

Pass/No Pass

Corequisite: NRSCE 101-114

Laboratory, 3 hours per unit.

This course is designed to allow students to learn, practice and/or remediate in basic, intermediate and advanced nursing skills, necessary to deliver safe and competent care of the chronically and acutely ill client, in a structured setting. The class will be individualized to meet students' needs. It may be repeated every semester for a maximum of 3.

116 Skills Enhancement Lab (2)

Pass/No Pass

Corequisite: NRSCE 101-114

Laboratory, 3 hours per unit.

This course is designed to allow students to learn, practice and/or remediate in basic, intermediate and advanced nursing skills, necessary to deliver safe and competent care of the chronically and acutely ill client, in a structured setting. The class will be individualized to meet students' needs. It may be repeated every semester to a maximum of 3.

117 Skills Enhancement Lab (3)

Pass/No Pass

Corequisite: NRSCE 101-114

Laboratory, 3 hours per unit.

This course is designed to allow students to learn, practice and/or remediate in basic, intermediate and advanced nursing skills, necessary to deliver safe and competent care for the chronically and acutely ill client, in a structured setting. The class will be individualized to meet students' needs. It may be repeated every semester for a maximum of 3.

OCEANOGRAPHY (OCEANO)**1 Introduction to Oceanography (3) UC:CSU**

Prerequisite: None.

Lecture, 3 hours.

This course provides an introduction to the geological, chemical, physical, and biological characteristics of the ocean. Topics covered include seafloor topography, waves, currents, the global ocean/atmosphere system, estuaries and wetlands, ocean resources, pollution, and the marine ecosystems. A field trip is offered for this course.

10 Physical Oceanography Laboratory (2) UC:CSU

Prerequisite: Oceano 1 or with a grade of C or better or concurrent enrollment.

Lecture, 1 hour; laboratory, 2 hours.

This laboratory course accompanies the Oceanography 1 lecture course. The course emphasizes the flow and transformations of water and energy into and out of the ocean, the physical and chemical properties of seawater, ocean circulation, interactions between the ocean and the other components of the Earth system, and the oceans' role in global climate change. A field trip is offered for this course.

185 Directed Study - Oceanography (1) CSU RPT2

285 Directed Study - Oceanography (2) CSU

385 Directed Study - Oceanography (3) CSU

Prerequisite: None.

Conference, 1 hour per unit.

Allows students to pursue Directed Study in Oceanography on a contract basis under the direction of a supervising instructor.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

UC CREDIT FOR INDEPENDENT STUDY/DIRECTED STUDY COURSES NUMBERED 185, 285, AND 385 IN ANY DEPARTMENT IS NOT AUTOMATIC; CREDIT IS CONTINGENT ON UC CAMPUS EVALUATION AFTER APPLICATION AND ADMISSION. THESE UNITS SHOULD NOT BE USED TOWARD CALCULATION OF THE MINIMUM 60 UNITS NEEDED FOR ADMISSION TO THE UC.

911-921-931-941 Cooperative Education - Oceanography (1-4) CSU

Oceanography is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

OFFICE ADMINISTRATION

(See Computer Applications & Office Technology)

PERSONAL DEVELOPMENT (PERSDEV)

1 Introduction to College (1) RPT1

Prerequisite: None.

This course is offered on a Credit/No Credit basis only.

Lecture, 1 hour.

Provides students with important information about the college and its resources, introduces them to the requisite skills for college success, helps them set educational and career goals, and assists them in developing a student educational plan (SEP) to meet those goals.

4 Career Planning (1) CSU

Prerequisite: None.

This course is offered on a Credit/No Credit basis only.

Discussion, 1 hour.

This is an educational and career planning course designed to help the undecided student make a meaningful decision regarding a career goal. The course includes career assessment, various self-appraisal techniques, and information on career characteristic trends. The class includes exploration of career options utilizing career information technology. By providing the students with insight into their interests, abilities, work values, and personality, they will be able to make realistic and informed career choices.

6 College and Career Planning for Students with Disabilities (1) CSU

Prerequisite: None.

Planned for disabled students.

This course is offered on a Credit/No Credit basis only.

Lecture, 1 hour.

This course is designed to assist students with disabilities in the exploration and development of career goals with as emphasis on individual interests and lifestyle, values, personality traits, and abilities. Topics covered include career exploration, resume writing, interview skills, job seeking strategies, and Americans with Disabilities Act in the workplace.

20 Post Secondary Education: Scope of Career Planning (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

This course is designed to provide students with information regarding vocational and professional careers. It describes the scope of a post-secondary education beginning with the primary education through the community college careers to the transfer selection toward the Baccalaureate.

30 Personal Development Seminar ‡ (1) NDA RPT3

Prerequisite: None

This course is offered on a Credit/No Credit basis only.

Lecture, 3 hours.

Group study of a selected disability-related topics with a focus on the development of self-advocacy skills for students with disabilities; provides an opportunity to explore a wide variety of accessibility issues as they relate to educational and career goals.

PHILOSOPHY (PHILOS)

1 Introduction to Philosophy

(3) UC:CSU ☉

(CAN PHIL 2)

Prerequisite: None

Lecture, 3 hours.

A sample of the fundamentals of philosophy, Western or Eastern, with selected philosophers of topics in the history of philosophy, theory of knowledge, metaphysics, ethics, philosophy of religion, philosophy of science, etc. Subjects covers vary with instructor.

6 Logic in Practice (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

This course is intended to introduce fundamental issues of logic, epistemology, rationality, argument, persuasion, and critical thinking, with examples if sound and unsound thinking, for analysis and debate, from current public discourse and perennial political and philosophical issues.

7 Inductive Logic ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

An introduction to history and philosophy of science, epistemological and metaphysical issues in science, inductive logic and falsification, Aristotle, Francis Bacon, Positivism, Karl Popper, historical and experimental sciences, examples of the practice and progress of science, critiques of science.

9 Symbolic Logic I (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

Introduction, Origin and Use of Formal and Symbolic Logic, Truth Functional Connectives and Validity, Truth Tables, Deductive and Axiomatic Systems, the Propositional Calculus and Quantification.

12 History of Greek Philosophy ‡ (3) UC:CSU ☉

Prerequisite: None.

Lecture, 3 hours.

History of Greek Philosophy, including the Presocratics, Sophists, Socrates, Plato, and Aristotle, with some material from Hellenistic Philosophy, Late Antiquity, and even Medieval Philosophy.

14 History of Modern European Philosophy ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

An introduction and survey to modern Western or European Philosophy, beginning with the inception of Modern Science with Copernicus and Galileo, the inception of modern philosophy proper with Rene Descartes, through the Rationalists and Empiricists, German Idealism, Positivism, Marxism, Linguistic and Analytic Philosophy, Phenomenology, Philosophy of Science, Existentialism, Feminism, Deconstruction, and other recent trends.

20 Ethics (3) UC:CSU

(CAN PHIL 4)

Prerequisite: None.

Lecture, 3 hours.

Survey of ethics, covering moral dilemmas, the justification and nature of moral value, i.e. meta-ethics, different historical ethical doctrines with representative philosophers, theories about the good life, or the meaning and value of life, and a selection of contemporary moral issues, which may be of a personal nature (e.g. abortion) or involve political (race, gender), economic (class, corporations), or religious issues.

30 Asian Philosophy ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

Philosophy in the traditions of India and China, including countries of South, East, and Southeast Asia influenced by Indian and Chinese civilization, like Sri Lanka, Thailand, Japan, Korea, Vietnam, etc. This covers philosophical schools such as Vedanta, Sankhya, Yoga, Confucianism, Taoism, and in Buddhism, Zen, Tendai, Tantrism, etc.

33 Comparative Survey of World Religions ‡ (3) UC:CSU

(Same as History 7)

Prerequisite: None.

Lecture, 3 hours.

The historical development of the world's great religions. A study is made of the origins and growth of the chief religions of mankind and of their contributions to modern civilization.

MAXIMUM UC CREDIT FOR ANY COMBINATION OF HIST 7, 47, OR 48, IS TWO COURSES.

35 Judaism, Christianity, and Islam (3) UC:CSU

(Same as Jewish Studies 35.)

Prerequisite: None.

Lecture, 3 hours.

A scholarly study of religion that explains the basic structure of religious belief and practice. It examines the cultural history and social aspects which influenced and shaped the growth and development of the western religions in order to encourage a desire to understand as a means of overcoming the destructive exchanges that frequently accompany religious discussion.

911-921-931-941 Cooperative Education - Philosophy (1-4) CSU

Philosophy is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

PHOTOGRAPHY (PHOTO)**9 Introduction to Cameras & Composition (3) CSU**

Prerequisite: None.

Recommended for communication students interested in camera techniques and photo composition.

Lecture, 3 hours.

Basic course in the use of the camera to produce a photographic image. Emphasizes artistic and creative control of the image. Presents the history of photography and its place as an art in our society. The student is provided with cognitive information as well as experience in creating good photographs. An introduction to color photography including basic information on cameras, lenses, film and exposure designed to aid in an awareness of camera techniques and photo composition. Color slide assignments are given for analysis in class. Note: A 35mm single lens reflex camera is required.

10 Beginning Photography (3) UC:CSU

(CAN ART 18)

Prerequisite: None.

Lecture, 2 hours; laboratory, 3 hours.

Basic course in use of the camera to produce a photographic image through study of light, shadow, exposure, and composition. This course in black and white photography recognizes that total artistic and creative control of the image comes not only through taking the photo but also through processing film and print making and gives instruction and practice in these skills. Presents the history of photography and its place as an art in our society. Note: A 35mm single lens reflex camera and various lab supplies are required.

11 Advanced Photography (4) CSU RPT2

Prerequisite: Photography 10 with a grade of C or better.

Lecture, 2 hours; laboratory, 6 hours.

Provides theory and practice of advanced photography techniques. Students receive instruction in both traditional photography and digital imaging techniques with an emphasis on idea development, preparation and execution. Studio procedures, creative thinking and computer assisted image processing will also be emphasized.

20 Beginning Photojournalism (4) CSU

Prerequisite: Photography 10 with a grade of C or better.

Lecture, 2 hours; laboratory, 6 hours.

Photography instruction for those interested in learning the skills necessary of making photographs for publication. Students will learn techniques for taking high impact, dynamic, story telling photographs as well as how to use their camera as a tool for social change. Emphasis is placed on digitally preparing photographs for both the internet and print media. Note: A 35mm single lens reflex camera is required.

21 News Photography (4) CSU RPT3

Prerequisite: Photography 20 with a grade of C or better.

Lecture, 2 hours, laboratory, 6 hours.

Emphasis is placed on making photographs for publication. Students receive instruction in advanced photojournalism techniques and digital preparation of photographs for publication. Students work in a real-world environment where they are able to make photographs of sports events, news events, and photo essays with meaningful sociological impact. Emphasis is placed on portfolio development and the use of digital technology.

185 Directed Study - Photography (1) CSU RPT2**285 Directed Study - Photography (2) CSU****385 Directed Study - Photography (3) CSU****Photography (3) CSU**

Prerequisite: None.

Conference, 1 hour per unit.

Allows students to pursue Directed Study in Photography on a contract basis under the direction of a supervising instructor. *Credit limit:* A maximum of 3 units per subject in Directed Study may be taken for credit.

911-921-931-941 Cooperative Education - Photography (1-4) CSU

Photography is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

PHYSICAL EDUCATION (P.E. OR PHYS ED)

(Also see Dance Studies or Dance Techniques)

UC accepts a maximum of 4 units from any combination of P.E. 95-328, 385, 431-463, 503-517, 552, OR 630-695 course numbers, a maximum of 8 units from any combination of P.E. 710, 711, 713, or 714.

Qualified disabled students possessing the required talents, skills and health conditions are allowed and encouraged to participate in all physical education activities.

95 Special Studies in Physical Activities (1) UC:CSU RPT3

Lecture, 0.5 hours, Activity 1.5 hours.

Allows the student to pursue directed study in physical education activity at times flexible to his/her program on a contract basis under the supervising instructor.

96 Combined Activities (1) UC:CSU RPT3

Lecture, 0.5 hours, Activity, 1.5 hours.

An introductory course offering a wide variety of fitness activities (aerobics, aqua aerobics, swimming, weight training, stretching, and yoga) designed to increase understanding of the training principles and components of fitness with the necessary level of fitness for participation in variety of activities.

97 Physical Efficiency ‡ (2) UC:CSU

This class meets the credit for Physical Education activity.

Lecture, 1 hour; activity, 2 hours.

Includes theory, practice and techniques of developing ones own physical fitness program at any time in life based upon sound physiological principles. Course covers basic foundation of physical education principles as they relate to a optimal healthy lifestyle.

101 Swimming-Non Swimmer (1) UC:CSU RPT 3

Prerequisite: None.

Lecture, 0.5 hour; activity, 1.5 hours.

This course is designed to teach the beginning skills of swimming: crawl stroke, elementary backstroke, racing backstroke, breaststroke, and diving. The course will introduce the principles and strategies of swimming endurance. Upon completion of this course the student will be able to perform the basic strokes, know the rules that govern the different strokes, understand the nutrition and injury prevention strategies for swimming.

102 Swimming Skills (1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.5 hour; activity, 1.5 hours.

This course is designed to teach the skills of swimming: crawl stroke, backstroke, breast-stroke, butterfly, flip turns, starts and finishes. The course will introduce the principles and strategies of endurance and interval training. Upon completion of this course the student will be able to perform the basic strokes, know the rules that govern the different strokes, understand the nutrition and injury prevention strategies for swimming.

105 Diving Skills ‡ (1) UC:CSU RPT3

Prerequisite: None.

Activity, 2 hours.

Fundamental, intermediate and advanced principles/theories of basic Springboard Diving Skills. Instruction, demonstration and practice of basic forward, backward, inward, reverse and twisting dive skills.

108 Fire Department Physical Ability Testing (0.1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.11 hours; activity, 0.11 hours.

This course provides the student with a knowledge of the Standardized Fire Department Physical Ability Test. Successful completion leads to a Certificate of Completion.

121 Water Activities – Water Polo ‡ (1) UC:CSU RPT3

Prerequisite: None.

Activity, 2 hours.

The sport of water polo will be discussed and taught. Starting with the basic swimming and ball handling skills and advancing to the specifics of game strategy, shooting, defense, offense, counter attack, and game management.

131 Aqua Aerobics (1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.5 hour, activity, 2.5 hours.

A water aerobic exercise and conditioning class that emphasizes cardiovascular endurance and promotes fitness using water resistance. Students need not be a swimmer to participate in this class.

203 Badminton Skills ‡ (1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.5 hour, activity, 1.5 hours.

A class fundamental badminton skills, the care and selection of equipment, rules and proper etiquette to be displayed during all phases of play.

219 Table Tennis Skills (1) UC:CSU RPT 3

Prerequisite: None.

Lecture, 0.5 hour, activity, 1.5 hours.

Fundamental principles of the basic skills, strategy and etiquette of table tennis are taught in this course. It includes beginning, intermediate, and advanced techniques for singles and doubles play. Skills and strategy will be developed through drills and game conditions. Physical fitness through table tennis will be emphasized.

225 Yoga Skills ‡ (1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.5 hour, activity, 1.5 hours.

This course teaches a 5,000 year old form of mostly isometric poses (asanas), breathing techniques, and meditation. Yoga promotes mental, physical, and spiritual fitness. Yoga teaches a "way of life". There are brief lectures covering basic information on hypertension, exercise precautions, body composition, health style, flexibility, nutrition, nutrition supplements, water, physical fitness, nutrition myths, ethics and morality, and stress management.

228 Body Conditioning ‡ (1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.5 hour, activity, 1.5 hours.

This course will familiarize the student with procedures for evaluating fitness levels and will allow the student to experience the cognitive, affective and psychomotor levels of learning a variety of exercise programs and techniques which will improve the students' level of physical fitness.

229 Body Dynamics ‡ (1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.5 hour, activity, 1.5 hours.

This course is designed to provide challenging fitness activities by combining resistant exercises with endurance exercises. Emphasis is placed on aerobic activity and resistant exercises based on individual age and physical condition.

230 Weight Training Skills ‡ (1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.5 hour, activity, 1.5 hours.

Weight Training Skills includes an emphasis in the knowledge, understanding and values of building muscular strength and endurance. The objective is to develop the student's ability to develop his/her own weight training program based upon sound physiological principles.

238 Self Defense Skills**(1) UC:CSU RPT3***Prerequisite: None.***Lecture, 0.5 hour, activity, 1.5 hours.**

Self-Defense skills for women against rape and other physical attacks. Covers safety precautions and the promotion of mental and physical well being.

247 Gymnastics Skills**(1) UC:CSU RPT3***Prerequisite: None.***Lecture, 0.5 hour, activity, 1.5 hours.**

Fundamental, intermediate and advanced principles/theories of basic gymnastics skills on all Olympic events. Instruction, demonstration and practice of basic skills and routines on all events.

250 Tumbling Skills ‡ (1) UC:CSU RPT3*Prerequisite: None.***Lecture, 0.5 hour, activity, 1.5 hours.**

Fundamental, intermediate and advanced principles/theories of basic tumbling skills. Instruction, demonstration and practice of basic tumbling skills and routines.

259 Golf Skills (1) UC:CSU RPT3*Prerequisite: None.***Lecture, 0.5 hour, activity, 1.5 hours.**

Beginning, intermediate, and advanced levels accepted. Designed to meet the need of the student on all aspects of the sport of golf. Starting with the basics of the grip, stance, swing, posture, and advancing to the specifics of course etiquette, course management, driving, putting and chipping.

277 Snow Skiing Skills ‡**(1) UC:CSU RPT3***Prerequisite: None.***Lecture, 0.5 hour, activity, 1.5 hours.**

Fundamental, intermediate and advanced principles/theories of basic Snow Skiing Skills. Instruction, demonstration and practice of basic snow skiing techniques. Includes dry land and on snow instruction.

284 Bicycle Spinning Class (1) UC:CSU RPT3*Prerequisite: None.***Lecture, 0.5 hour, activity, 1.5 hours.**

This course is designed to develop and improve both cardiovascular endurance and leg strength through cycling, interval training and hill climbing. Cycling safety, bike fit, and heart rate training will be emphasized throughout the course. Incorporates a choreographed workout on a specially designed stationary bicycle, using music and fundamental cycling techniques.

301 Baseball Skills (1) UC:CSU RPT3*Prerequisite: None.***Activity, 2 hours.**

Baseball skills course. Skills taught will be throwing, fielding, hitting, baserunning, and baseball strategy.

304 Basketball Skills (1) UC:CSU RPT3*Prerequisite: None.***Activity, 2 hours.**

This course is designed to teach all levels the basic basketball skills of passing, dribbling, shooting, and rebounding. The course will also introduce individual and team offense and defense, as well as the rules, proper etiquette, terminology, and the components of fitness.

310 Flag/Touch Football Skills ‡**(1) UC:CSU RPT3***Prerequisite: None.***Activity, 2 hours.**

Basic skills of punting, passing, catching and carrying the football are taught. Course includes instruction on foot placement, positioning for blocking, tackling, ball handling (offense & defense), change of direction associated with accelerating and decelerating, hand and finger position for passing and catching the football. A balance of skill and game development, through flag football games. Open to all ability levels

322 Volleyball Skills (1) UC:CSU RPT3*Prerequisite: None***Lecture, 0.5; activity, 1.5 hours**

This course is designed to teach the basic volleyball skills of passing, setting, spiking, serving and blocking. The course will introduce individual and team offense and defense systems, as well as the rules proper etiquette, terminology, components of fitness, nutritional and injury prevention strategies for volleyball.

328 Softball Skills ‡ (1) UC:CSU RPT3*Prerequisite: None.***Lecture, 0.5; activity, 1.5 hours.**

Instruction in the fundamental skills, techniques, strategies, etiquette and official rules of softball. This course is designed for prospective intercollegiate softball players.

341 Seniorcise (1) UC:CSU RPT3*Prerequisite: None.***Lecture, 0.5; activity, 1.5 hours.**

This course provides a combination of fitness activities especially tailored to address the needs and interests of seniors. Includes aerobics, weight training, stretching, walking, and other activities.

503 Intercollegiate Sports - Baseball ‡ (3) UC:CSU RPT1*Prerequisite: None.***Activity, 10 hours or more in sports in season.**

Intercollegiate Athletic competitive baseball team course. Skills perfected will include throwing, fielding, hitting, baserunning, and baseball game strategies.

504 Intercollegiate Sports - Basketball ‡ (3) UC:CSU RPT1*Prerequisite: None.***Activity, 10 hours.**

Fundamental, intermediate and advance principles/theories and skills of Basketball. Instruction, demonstration and practice of basic basketball skills, include passing, dribbling, shooting, rebounding, individual and team offense/defense and basketball intercollegiate competition.

506 Intercollegiate Sports - Cross Country ‡ (3) UC:CSU RPT1*Prerequisite: None.***Activity, 10 hours.**

Intercollegiate athletics. Competitive Cross Country team course. Skills perfected include fundamental, intermediate and advanced principles/theories of basic running. Instruction, demonstration and practice of basic running long slow distance, fartlek training, hill running and interval training. Race strategies.

508 Intercollegiate Sports - Football ‡ (3) UC:CSU RPT1*Prerequisite: None.***Activity, 10 hours.**

Intercollegiate Athletic competitive football team course. Advanced skills for blocking, tackling, ball carrying (offense & defense), running, change in direction, accelerating and decelerating and placement of hands and fingers on football.

511 Intercollegiate Sports - Soccer ‡ (3) UC:CSU RPT1*Prerequisite: None.***Activity, 10 hours.**

Fundamental, intermediate and advance principles/theories and skills of Soccer. Instruction, demonstration and practice of basic soccer skills of passing, dribbling, shooting, goal keeping, individual and team offense/defense and soccer intercollegiate competition.

512 Intercollegiate Sports – Softball ‡ (3) UC:CSU RPT1

Prerequisite: None.

Activity, 10 hours.

Fundamental, intermediate and advanced principles/theories and skills of Softball. Instruction, demonstration and practice of basic softball skills, including throwing, fielding, hitting, base running, and intercollegiate competition.

513 Intercollegiate Sports – Swimming ‡ (3) UC:CSU RPT1

Prerequisite: None.

Activity, 10 hours.

Intercollegiate Athletic competitive swimming and diving team course. Instruction, demonstration and practice of fundamental and advanced swimming and diving techniques, including starts, turns, stroke technique, breathing, interval training and intercollegiate competition.

515 Intercollegiate Sports – Track and Field ‡ (3) UC:CSU RPT1

Prerequisite: None.

Activity, 10 hours.

Intercollegiate Athletic competitive Track and Field team course. Fundamental and Advanced principles/theories of track and field techniques. Instruction, demonstration and practice of sprinting, hurdling, throwing, jumping (vertical and horizontal), pole vaulting, middle and long distance skills.

517 Intercollegiate Sports – Water Polo ‡ (3) UC:CSU RPT1

Prerequisite: None.

Activity, 10 hours.

Intercollegiate Athletic competitive Water Polo team course. Fundamental and advanced principles/theories of water polo techniques. Instruction, demonstration and practice of swimming, eggbeater, offense, defense, counter attack, man up and man down situations.

549 Intercollegiate Sports – Cheer/Yell Leaders ‡ (3) UC:CSU RPT1

Prerequisite: None.

Activity, 10 hours.

Fundamental and advanced principles/theories of basic drill patterns, yell and cheerleading routines. Instruction, demonstration and practice of yell/cheerleading skills. Students will be required to perform at athletic events and competitions as part of the course requirements.

552 Athletics Pre-Season Conditioning ‡ (1) UC:CSU RPT3

Prerequisite: None.

Activity, 3 hours.

This course is designed for the student athlete. The following areas are emphasized: the analysis and training of athletic skills, the analysis of offensive and defensive systems, physical conditioning, strength training and aerobic conditioning.

628 Swim and Run Fitness ‡ (1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.5, activity, 2.5 hours.

This course develops cardiovascular endurance and fitness through running and swimming. It enables students to gain awareness of the importance of proper running and swimming techniques, including progressive resistance training and conditioning for the purpose of training for a triathlon.

629 Bicycle Spinning Activity ‡ (1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.5, activity, 2.5 hours.

This course is designed to develop and improve both cardiovascular endurance and leg strength through cycling, interval training and hill climbing. Cycling safety, bike fit, and heart rate training will be emphasized throughout the course. Incorporates a choreographed workout on a specially designed stationary bicycle, using music and fundamental cycling techniques.

630 Aerobic Super Circuit Laboratory (1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.5 hours, activity 2.5 hours.

Designed for the individual interested in beginning a personal fitness program. Using fundamentals of exercise physiology, each student will assess his/her level of physical fitness, develop fitness goals, design and implement a personalized exercise program to be performed on circuit training equipment.

640 Beginning Lifelong Fitness Center (1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.5 hours, activity, 2.5 hours.

This physical fitness course is designed to provide the student with procedures for evaluating individual fitness levels. The student will learn a progression of lifelong fitness exercises for all major muscle groups to improve cardiovascular fitness, muscular strength/endurance, flexibility and body composition.

648 Adapted Exercise for Back Disorders (1) CSU RPT3

Prerequisite: None.

Activity, 3 hours.

Course is designed to meet the needs of students with disabilities with back and/or neck problems who can benefit from an individualized exercise program. Instruction and practice will be given in individualized exercise, including stretching, resistive exercise, and cardiovascular fitness. Students with disabilities need a medical prescription for exercises from physician.

655 Cross Training Lab (1) CSU RPT3

Prerequisite: None.

Lecture, 0.5 hours, activity 2.5 hours.

A course designed for the individual interested in using a variety of fitness cross training activities to achieve their personal fitness goals. Includes lecture on nutrition, exercise physiology concepts, and participation in a workout designed to improve cardiovascular conditioning and body composition, increase muscle strength/endurance and flexibility.

661 Archery Skills Activity (1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.5, activity, 2.5 hours.

A course in the fundamental skills of target archery. The course emphasizes safety procedures and injury prevention while performing basic shooting techniques at various distances.

662 Badminton (1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.5, activity, 2.5 hours.

A class in fundamental badminton skills, the care and selection of equipment, rules and proper etiquette to be displayed during all phases of play.

665 Basketball (1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.5, activity, 2.5 hours.

This course is designed to teach all levels the basic basketball skills of passing, dribbling, shooting, and rebounding. The course will also introduce individual and team offense and defense, as well as the rules, proper etiquette, terminology, and the components of fitness.

666 Body Conditioning (1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.5, activity, 2.5 hours.

This course will familiarize the student with procedures for evaluating fitness levels and will allow the student to experience the cognitive, affective and psychomotor levels of learning a variety of exercise programs and techniques which will improve the students' level of physical fitness.

668 Body Dynamics Activity (1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.5, activity, 2.5 hours.

This course is designed to provide challenging fitness activities by combining resistant exercises with endurance exercises. Emphasis is placed on aerobic activity and resistant exercises based on individual age and physical condition.

670 Judo (1) UC:CSU RPT3

Prerequisite: None.

Activity, 3 hours.

Judo is a self-defense course. Techniques taught include throws, pins, strangles, falls, submission holds, escapes and counter attacks.

677 Soccer (1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.5 hour activity, 2.5 hours.

This course is designed to teach all levels the basic soccer skills of passing, dribbling, shooting, and goal keeping. The course will also introduce individual and team offense and defense, as well as the rules, proper etiquette, terminology, and the components of fitness.

678 Softball (1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.5 hours activity, 2.5 hours.

Instruction in advanced softball skills, techniques, rules and game strategies. This course is designed for prospective intercollegiate softball players.

681 Table Tennis (1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.5 hours activity, 2.5 hours.

Fundamental principles of the basic skills, strategy and etiquette of table tennis are taught in this course. It includes beginning, intermediate, and advanced techniques for singles and doubles play. Skills and strategy will be developed through drills and game conditions. Physical fitness through table tennis will be emphasized.

682 Tennis (1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.5 hours activity, 2.5 hours.

This class is designed to teach all levels the basic tennis skills of the forehand, backhand, volley and serve. This course will also introduce the selection and care of equipment, rules, proper etiquette, terminology, strategies of the game, and components of fitness.

684 Volleyball (1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.5 hours activity, 2.5 hours.

This course is designed to teach the basic volleyball skills of passing, setting, spiking, serving, and blocking. The course will introduce individual and team offense and defense systems, as well as the rules, proper etiquette, terminology, components of fitness, nutritional and injury prevention strategies for volleyball.

690 Weight Training (1) UC:CSU RPT3

Prerequisite: None.

Activity, 3 hours.

Weight Training includes an emphasis in the knowledge, understanding and values of building muscle strength and endurance. The course includes instruction in the five health related components of fitness (body composition, muscle strength, muscle endurance, flexibility and cardiovascular fitness). The objective is to develop the student's ability to develop his/her own physical fitness program at any time in life based upon sound physiological principles

695 Swimming Skills Activity (1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.5 hour, Activity, 2.5 hours.

This course is designed to teach the skills of swimming: crawl stroke, backstroke, breaststroke, butterfly, flip turns, starts and finishes. The course will introduce the principles and strategies of endurance and interval training. Upon completion of this course the student will be able to perform the basic strokes, know the rules that govern the different strokes, understand the nutrition and injury prevention strategies for swimming.

696 Yoga (1) UC:CSU RPT3

Prerequisite: None.

Lecture, 0.5 hour; Activity, 2.5 hours.

This course teaches a 5,000 year old form of mostly isometric poses (asanas), breathing techniques, and meditation. Yoga promotes mental, physical, and spiritual fitness. Yoga teaches a "way of life". There are brief lectures covering basic information on hypertension, exercise precautions, body composition, health style, flexibility, nutrition, nutrition supplements, water, physical fitness, nutrition myths, ethics and morality, and stress management.

Physical Education Majors Classes

These are theory classes and they may or may not meet credit for Physical Education activity. Required for Physical Education and Recreation majors and minors.

701 Advanced Lifesaving (2) UC:CSU

Prerequisite: None.

Lecture, 1 hour; Activity, 2 hours.

This course will afford the opportunity for entry-level lifeguard candidates to gain the skills and knowledge to prevent, recognize and respond to aquatic emergencies. Students will learn how to provide care for injuries and sudden illness until advanced medical personnel arrive. Upon successful completion, an American Red Cross certificate may be issued. Offered only once per year during the Spring Semester.

702 Water Safety Instruction (3) UC:CSU

This class meets the credit for Physical Education activity.

Prerequisite: None.

Lecture, 2 hours; activity 2 hours.

This course will afford the opportunity to successfully train instructor candidates to be able to teach courses in the American Red Cross Swimming and Water Safety Program. Upon successful completion, an American Red Cross certificate may be issued. Offered only once per year during the Fall Semester.

710 Officiating Competitive Sports I (2) UC:CSU

This class does not meet the credit for Physical Education activity.

Prerequisite: None.

Lecture, 1 hour; laboratory, 2 hours.

Theory, practice and techniques of officiating Spring Sports, such as baseball, swimming and diving, track and field and other athletic activities.

711 Officiating Competitive Sports II ‡ (2) UC:CSU

This class does not meet the credit for Physical Education activity.

Prerequisite: None.

Lecture, 1 hour; laboratory, 2 hours.

Theory, practice and techniques of officiating Fall Sports, such as football, soccer, volleyball, basketball and other Fall athletic activities.

712 Introduction to Physical Education ‡ (3) UC:CSU

This class does not meet the credit for Physical Education activity.

Required for Physical Education and Recreation majors.

Prerequisite: None.

Lecture, 3 hours.

An introductory course designed to offer the major examples of the requirements of a physical education teacher. A major emphasis is placed on guidance and problem areas faced by physical educators.

713 Introduction to Coaching Athletics ‡ (3) UC:CSU

This class does not meet the credit for Physical Education activity.

Prerequisite: None.

Lecture, 3 hours.

For students wishing to increase their knowledge of the responsibilities of coaching an athletic team. Designed to meet the needs of the student on all aspects in coaching.

718 Fundamentals of Athletic Training ‡ (3) UC:CSU

This class does not meet the credit for Physical Education activity.

Prerequisite: None.

Lecture, 2 hours; activity, 3 hours.

The principles, techniques and ethics used by the athletic trainer in the prevention and care of athletic injuries. Emphasis is placed on the identification of common athletic injuries and ailments, their etiology and the preventative measures, first aid treatment and follow-up care given for them.

719 Advanced Athletic Training ‡ (3) CSU

This class does not meet the credit for Physical Education activity.

Prerequisite: None.

Lecture, 2 hours; laboratory, 2 hours.

This course provides students with the opportunity to gain supervised practical experience as an assistant in rehabilitation and athletic training.

722 Introduction to the Group Fitness Instructor (3) CSU

Prerequisite: None.

Lecture, 2 hours; laboratory, 2 hours.

This course will prepare students to be a group fitness instructor. Provides an introduction to the art and science of group exercise instruction and emphasizes design and delivery of safe and effective exercise classes. A certificate will be issued upon successful completion of this course.

750 Sports and Ethics

Prerequisite: None.

Lecture, 3 hours.

This course addresses a wide range of moral and ethical issues in sports. Topics include values, principles, racial and gender equity, coaching, commercialization, enhancing stimulants and ergogenic aids, eligibility, violence, sportsmanship and Code of Ethics in sports. Examines current and historical events, rules, laws and governing organization.

185 Directed Study - Physical Education (1) CSU RPT2**285 Directed Study - Physical Education (2) CSU****385 Directed Study - Physical Education (3) CSU**

Prerequisite: None.

Lecture 1 hour per unit.

This course allows students to pursue directed studies in Physical Education on a contract basis, under the direction of a supervising instructor.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

UC CREDIT FOR INDEPENDENT STUDY/DIRECTED STUDY COURSES NUMBERED 185, 285, AND 385 IN ANY DEPARTMENT IS NOT AUTOMATIC; CREDIT IS CONTINGENT ON UC CAMPUS EVALUATION AFTER APPLICATION AND ADMISSION. THESE UNITS SHOULD NOT BE USED TOWARD CALCULATION OF THE MINIMUM 60 UNITS NEEDED FOR ADMISSION TO THE UC.

911-921-931-941 Cooperative Education - Physical Education (1-4) CSU

Physical Education is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

PHYSICAL SCIENCE (PHYS SC)**1 Physical Science I (3) UC:CSU**

Prerequisite: None.

Lecture, 3 hours.

Designed for the non-science major, this course provides an introduction to the fundamental principles of physics, chemistry, astronomy and geology. Elementary quantitative concepts are used to supplement the qualitative emphasis of this course.

NO UC CREDIT FOR PHY SCI 1 IF TAKEN AFTER A TRANSFERABLE COURSE IN ASTRONOMY, CHEMISTRY, GEOLOGY, OR PHYSICS.

14 Physical Science Laboratory (1) UC:CSU

Prerequisite or Corequisite: Physical Science 1.

Laboratory, 2 hours.

Designed for the non-science major. This course will provide an introduction to the laboratory methods and skills used in physical science.

PHYSICS**5 Allied Health Physics ‡ (3) CSU**

Recommend: Mathematics 115.

Lecture, 3 hours.

A specialized course designed to integrate selected physical facts, principles, and concepts as an essential part of the working knowledge of health care personnel. In addition, the specific relationship of physics to contemporary patient care equipment will be defined. Throughout the course, emphasis will be placed on the utilization of the scientific method in health care situations.

6 General Physics I ‡ (4) UC:CSU

(PHYSICS 6&7 = CAN PHYS SEQ A)

Prerequisite: Math 240 with a grade of C or better.

Lecture/demonstration, 3 hours; laboratory, 3 hours.

The first semester of a two-semester, trigonometry-level sequence in general physics designed for Premedical, Predental, Preoptometry, Prepharmacy, Physical Therapy, Medical Technology, Chiropractic, Biology, Geology, Bio-medical Physics and Architecture majors. Physics 6 includes topics in mechanics, heat and sound. Problem solving is an integral part of the course. Students majoring in Physics, Engineering or Chemistry should take Physics 37-38-39.

7 General Physics II ‡ (4) UC:CSU

(PHYSICS 6 & 7 = CAN PHYS SEQ A)

Prerequisite: Physics 6 with a grade of C or better.**Lecture/demonstration, 3 hours; laboratory, 3 hours.**

The second semester of a two-semester trigonometry-level sequence in general physics. Physics 7 includes topics in electricity and magnetism, optics, and modern physics. Problem solving is an integral part of the course.

MAXIMUM UC CREDIT FOR PHYSICS 6/7 COMBINED WITH PHYSICS 37/ 38/39 IS ONLY ONE SERIES.

12 Physics Fundamentals ‡ (3) UC:CSU*Recommended:* Math 115.**Lecture, 3 hours.**

Conceptual knowledge of fundamental physical laws and their applications including mechanics, heat, sound, light, electricity, relativity, light, and atomic and nuclear physics.

NO UC CREDIT FOR PHYSICS 12 IF TAKEN AFTER PHYSICS 6 OR 37.

37 Physics for Engineers and Scientists I (5) UC:CSU

(PHYSICS 37 & 38 & 39 = CAN PHYS SEQ B)

(CAN PHYS 8)

Prerequisite: Math 265 with a grade of C or better.**Lecture, 4 hours; laboratory, 3 hours.**

The first semester of a three semester calculus-level sequence in introductory college Physics designed for Physics, Astronomy, Chemistry, Engineering & Mathematics majors. Topics include kinematics, dynamics, laws of motion, and conservation laws for particles and systems of particles in both translation and rotation.

38 Physics for Engineers and Scientists II ‡ (5) UC:CSU

(PHYSICS 37 & 38 & 39 = CAN PHYS SEQ B)

(CAN PHYS 12)

Prerequisite: Physics 37 and Math 267 with grades of C or better.**Lecture, 4 hours; laboratory, 3 hours.**

The second semester of a three semester calculus-level sequence in introductory college physics. Topics include electric charge and electric fields, electric energy storage, electric currents, magnetism, electromagnetic induction, electromagnetic oscillations, AC circuits, and Maxwell's Equations.

39 Physics for Engineers and Scientists III ‡ (5) UC:CSU

(PHYSICS 37 & 38 & 39 = CAN PHYS SEQ B)

Prerequisite: Physics 37 and Math 266 with grades of C or better.**Lecture, 4 hours; laboratory, 3 hours.**

The third semester of a three semester calculus-level sequence in introductory college physics. Topics include oscillations, wave motion, sound, thermodynamics, geometric optics, the wave nature of light, special relativity, early quantum theory and models of the atom.

MAXIMUM UC CREDIT FOR PHYSICS 6/7 COMBINED WITH PHYSICS 37/ 38/39 IS ONLY ONE SERIES.

911-921-931-941 Cooperative Education - Physics (1-4) CSU

Physics is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

PHYSIOLOGY (PHYSIOL)**1 Introduction to Human Physiology (4) UC:CSU***Note:* Not open for credit to students who have had Physiology 6.*Prerequisite:* Anatomy 1 with a grade of C or better.**Lecture, 3 hours; laboratory, 3 hours.**

Principles of cellular and systemic functions of the human body. Lecture topics include basic organic chemistry, solute and water transport and balance, homeostatic mechanisms, and functions of major organ systems including, but not limited to, the circulatory, digestive, endocrine, nervous, reproductive, respiratory, immune, and muscle systems. Laboratory experiments and demonstrations of physiological concepts and processes covered in lecture.

MAXIMUM UC CREDIT FOR ANY COMBINATION OF ANATOMY 1, PHYSIOLOGY 1, 8 OR 9 IS 8 UNITS.

8 Integrated Human Anatomy and Physiology I (4) UC:CSU*Prerequisite:* Biology 3 with a grade of C or better.**Lecture, 3 hours; laboratory, 3 hours.**

First course of a two-semester sequence. Provides an introduction to the structure and function of the human body with emphasis on the organ and system levels. Topics include fundamental biological concepts and integumentary, skeletal, muscular, and nervous systems. The sciences of anatomy and physiology are integrated and presented with practical applications.

Not available for credit to students who have completed Anatomy 1 and/or Physiology 1.

MAXIMUM UC CREDIT FOR ANY COMBINATION OF ANATOMY 1, PHYSIOLOGY 1, 8 OR 9 IS 8 UNITS.

9 Integrated Human Anatomy and Physiology II (4) UC:CSU*Prerequisite:* Physiol 8 with a grade of C or better.**Lecture, 3 hours; laboratory, 3 hours.**

Second course of a two-semester sequence. Investigates the structure and function of the human body with emphasis on the organ and system levels. Anatomical and physiological topics are integrated and presented with practical applications.

Not available for credit to students who have completed Anatomy 1 and/or Physiology 1.

MAXIMUM UC CREDIT FOR ANY COMBINATION OF ANATOMY 1, PHYSIOLOGY 1, 8 OR 9 IS 8 UNITS.

911-921-931-941 Cooperative Education - Physiology (1-4) CSU

Physiology is approved for Cooperative Work Experience Education credit. See Cooperative Education, page XX, for prerequisite, course description and credit limits.

POLITICAL SCIENCE

All courses in Political Science may be taken on a Credit/No Credit basis.

Note: State law imposes on all California State Universities certain graduation requirements in the areas of U.S. History, U.S. Constitution, and state and local government. Courses meeting these requirements for the state universities are listed in the TRANSFER REQUIREMENTS section.

If you took a Political Science course outside of California, see a counselor to make certain you meet the California state and local government graduation requirements.

1 The Government of the United States (3) UC:CSU ☉

(CAN GOVT 2)

Prerequisite: None.

Lecture, 3 hours.

Introductory survey of U.S. political system. Includes theory, structure and functions of American nation, state and local government. Also includes a brief introduction to the political process, political parties, pressure groups, and relevant contemporary issues. This course fulfills the state graduation requirement in the U.S. Constitution and state and local governments.

2 Modern World Governments (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

A comparative study of the major governments of the modern world in terms of their institutions, ideologies, political habits and foreign policies. Emphasis is placed on the governments of Great Britain, France and Germany.

5 The History of Western Political Thought ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

Surveys important ideas and theories in political thinking that have been developed from the time of the ancient Greeks to the present day. Explores relationships between political theory and political life.

7 Contemporary World Affairs (3) UC:CSU RPT1

Prerequisite: None.

Lecture, 3 hours.

This course studies the relationships among nation-states, emphasizing the nation-state system, international diplomacy, international law, and international organizations. The course examines the causes, consequences, and methods of resolving international conflicts as well as the impact of internal economic, political, and military factors on foreign policy.

911-921-931-941 Cooperative Education - Political Science (1-4) CSU

Political Science is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

PSYCHOLOGY (PSYCH)

A major in Psychology may be taken to satisfy the requirements for graduation with the Associate Degree.

1 General Psychology I

(3) UC:CSU ☉

(CAN PSY 2)

Prerequisite: None.

Lecture, 3 hours.

A scientific approach to principles of human behavior. It covers such topics as growth and development, heredity and environment, perception and awareness, feeling and emotion, motivation, learning, thinking and intelligence, individual differences, introduction to statistical concepts, personality and social relations.

2 General Psychology II (3) UC:CSU ☉

(CAN PSY 10)

Prerequisite: Psychology 1 with a C or better.

Lecture, 3 hours.

A detailed study of the physiology and anatomy of the biological systems fundamental to behavior and experience. Covers the peripheral and central nervous systems, receptor systems, and response systems from various perspectives: structural, comparative, and developmental. Emphasizes the relationship of biological mechanisms to psychological processes of sensation, perception, consciousness, attention, sleep, motivation and emotion, learning and memory, by examination of recent experimental studies and comparison of physiological psychology and associated neurosciences.

3 Personality and Social Development (3) CSU

Prerequisite: None.

Lecture, 3 hours.

The psychology of human identity, emphasizing self-awareness, effective relationships, and personal growth in contemporary society. An applied understanding of our impressions of and presentations to others is based on personality theory and social and psychological processes. Students are encouraged to become involved in lecture, demonstration, discussion, and group exercises.

5 History and Perspectives in Psychology ‡ (3) UC:CSU

Prerequisite: None. Offered Spring semester only.

Lecture, 3 hours.

Historical theories and issues will be examined to increase understanding of contemporary psychological views. Serious consideration is given to the philosophical background of scientific psychology.

11 Child Psychology (3) UC:CSU

Prerequisite: Psychology 1 with a grade of C or better.

Lecture, 3 hours.

Psychological development of the child from infancy to adolescence. This course covers major principles derived from recent research, and basic theories including Freud, Erikson and Piaget. It also covers the implications of hereditary, prenatal, family, peer and educational influences; maternal and infant health; the attachment process and bonding; language development; learning; cognitive, emotional, social and physical growth; and moral development. Observational techniques and cross-sectional comparisons are explored.

12 Adolescent Psychology ‡ (3) UC:CSU

Prerequisite: Psychology 1 with a grade of C or better. Offered Spring semester only.

Lecture, 3 hours.

Behavioral patterns during the teenage years. This course deals with physical, social, and emotional development; male-female roles and stereotypes; cross cultural differences in adolescence; psychological needs of the period and how they may be met. Practical application of research findings is emphasized.

13 Social Psychology (3) UC:CSU

Prerequisite: Psychology 1 with a grade of C or better.

Lecture, 3 hours.

Examines human social interactions, how feelings and behavior are influenced by the behavior and characteristics of others. Emphasizes such topics as: liking and loving; forming impressions of other people; increasing and decreasing aggression; changing attitudes; interactions within groups; and the psychology of conformity, obedience, and prejudice.

14 Abnormal Psychology (3) UC:CSU

Prerequisite: Psychology 1 with a grade of C or better.

Lecture, 3 hours.

Study of psychological disorders including psychosis, anxiety disorders, disturbances of mood and personality, and behavioral problems of children. Diagnostic terminology of latest version of Diagnostic and Statistical Manual Disorders; modern methods of treatment.

17 The Exceptional Child ‡ (3) CSU

Prerequisite: Psychology 1 with a grade of C or better. Offered Fall semester only.

Lecture, 3 hours.

Offers students an opportunity to study children who do not follow the normal developmental process - autistic, mentally retarded, gifted, educationally handicapped, neurologically impaired, emotionally disturbed, and children with other learning and emotional disorders. Includes different theoretical orientations and discussion of practical applications.

26 Power and Speed Reading (3) CSU RPT1

Prerequisite: None.

Lecture, 3 hours.

Helps students develop effective reading techniques for different kinds of material and provides opportunities to increase reading speed while improving comprehension.

41 Life-Span Psychology: From Infancy to Old Age (3) UC:CSU

Prerequisite: Psych 1 with a grade of C or better.

Lecture, 3 hours.

Individual psychological development from conception to death, including physical, cognitive and psychosocial aspects. Major theories and research methodologies are introduced. Family, peer educational and social influences on intelligence, gender, personality and relationships are explored. Practical applications are emphasized.

60 Stress Management (3) CSU

Prerequisite: None.

Lecture, 3 hours.

Examines how stress influences our lives. Course topics include stress reduction, relaxation techniques, time management, stress management, psychophysiological factors, the roles of health, exercise and nutrition, and occupational, personal, and age-related stress issues.

66 Introduction to Critical Thinking (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

An understanding of the basic critical thinking principles as they relate to psychology. Topics include reasoning, logical concepts, language, fallacies, analyzing arguments, the media, argumentative essays, and science and pseudoscience as they relate to real life and to psychological concepts and principles. Recommended for Psychology and Social Science students.

911-921-931-941 Cooperative Education - Psychology (1-4) CSU

Psychology is approved for Cooperative Work Experience Education credit.

See Cooperative Education, page 72, for prerequisite, course description and credit limits.

READING

The Reading Center (Bungalows 45 and 46) has classes for reading and study skills improvement. Courses and independent study programs offered cover speed reading, comprehension skill, note-taking, and vocabulary development. The Lab is also open for practice at posted hours.

(See also Psychology 26, Developmental Communications, English and Learning Skills).

REAL ESTATE (REAL ES)**1 Real Estate Principles (3) CSU**

Prerequisite: None.

Lecture, 3 hours.

The basic real estate course covering fundamental principles of real estate. Provides background and terminology necessary for advanced study in specialized courses. Course must be completed prior to taking Real Estate Salesman's Licensing Test. Applies toward mandatory educational requirements for the sales license.

3 Real Estate Practices (3) CSU

Prerequisite: None.

Lecture, 3 hours.

Deals with the day-to-day operations in real estate brokerage, including listing, prospecting, advertising, financing, sales techniques, escrow, and ethics. Applies toward mandatory requirement for the brokers license.

5 Legal Aspects of Real Estate I (3) CSU

Prerequisite: None.

Lecture, 3 hours.

A study of real estate law, including rights incident to property ownership and management, agency contracts; application to real estate transfer, conveyancing, probate proceedings, trust deeds, and foreclosures; recent legislation governing real estate transactions. Meets mandatory educational requirement for California real estate brokers examination.

7 Real Estate Finance I (3) CSU

Prerequisite: Real Es 1 or 3 with a grade of C or better.

Lecture, 3 hours.

Analysis of real estate financing, including lending policies and problems in financing transactions in residential, apartment, commercial, and special purchase properties. Methods and sources of financing emphasized. Applies toward mandatory educational requirement for California real estate brokers examination.

9 Real Estate Appraisal I (3) CSU

Prerequisite: Real Es 1 with a grade of C or better.

Lecture, 3 hours.

An introductory course covering the purposes of appraisals, the appraisal process, and the different approaches, methods and techniques used to determine the value of various types of property. Emphasis is on residential and single-units property. Applies toward the mandatory educational requirement for real estate brokers examination.

10 Real Estate Appraisal II ‡ (3) CSU

Prerequisite: Real Es 9 with a grade of C or better.

Lecture, 3 hours.

An extension of appraisal techniques studied in Real Estate Appraisal I into the areas other than single-family residences. Types of properties covered include subdivisions, apartment buildings, hotels, office buildings, shopping centers, rural and ranch, industrial, leaseholds, easements, air rights, auto service properties, etc. The income approach is studied in depth, including analysis of capital setups, leases, selection of capitalization rates, etc. Field work required. Applies toward mandatory educational requirement for California real estate brokers license.

11 Escrow Principles (3) CSU

Prerequisite: None.

Lecture, 3 hours.

This course covers the principles used in handling escrows involving real estate transactions and the transfer of land titles. This includes title insurance, tax issues, prorations, vesting, securing of loans, recording of documents and settlement procedures. The basic methods and techniques of escrow holders as well as an introduction to the types of instruments, forms and documents used by escrow holders from escrow opening through post-closing activities, will be covered.

12 Escrow Practices (3) CSU

Prerequisite: None.

Lecture, 3 hours.

This course covers the practical aspects of providing escrow services for a variety of property transactions. It focuses on the processes utilized by the escrow provider in the completion of typical escrows for particular types of sales including, residential transactions, business opportunity sales, loan refinances, section 1031 exchanges, mobile home transfers, commercial property sales, amongst others. An emphasis is placed on the taking, processing and closing aspects of each type of escrow. It provides extensive experience and practice in the preparation and selection of forms and documents utilized in transactions.

14 Property Management (3) CSU

Prerequisite: None.

Lecture, 3 hours.

This is a course in the management of income producing properties, including residential, retail, offices, and industrial. The various kinds of income properties are analyzed, along with their management requirements including leasing, collections, tenant selection, record keeping, financial statements, fair housing laws, evictions, maintenance, liability issues, and the economics of selecting a particular type of property for investment. An emphasis is also placed on sustainable environmental policies that may be put into place by management.

18 Real Estate Investments I (3) CSU

Prerequisite: Real Es 1 with a grade of C or better.

Lecture, 3 hours.

This is an advanced course in the analysis of investment factors considered in the evaluation of commercial, industrial and residential properties including condominiums and cooperatives. It includes site location, zoning and other record restrictions, financing, installment sales, exchanges, sales and leaseback, tax considerations, cash flow and other tools of analysis, environmental constraints and marketing considerations.

21 Real Estate Economics (3) CSU

Prerequisite: Real Es 1 or 7 with a grade of C or better.

Lecture, 3 hours.

Economic trends and factors affecting Real Estate values. Examines cycles and economic fluctuations.

24 Common Interest Developments (3)

Prerequisite: None.

Lecture, 3 hours.

This course covers the principles of common interest developments and the management of homeowner associations. The course will examine the legal requirements and creation of common interest developments such as condominiums, planned unit developments, recreational and resort properties, retirement facilities and cooperative apartments. The legal and practical aspects of the homeowner association creation and operation will be analyzed.

911-921-931-941 Cooperative Education - Real Estate (1-4) CSU

Real Estate is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

RECREATION (RECR)**81 Field Work I ‡ (4) CSU**

Prerequisite: None.

Lecture, 1 hour; field work, 6 hours.

Internship in recreation agency or related activity while under the supervision of qualified personnel.

82 Field Work II ‡ (4) CSU

Prerequisite: None.

Lecture, 1 hour; field work, 6 hours.

Internship in a recreation agency or related activity with responsibility to plan, conduct and evaluate activities, while under the supervision of qualified personnel.

83 Field Work III ‡ (4) CSU

Prerequisite: None.

Lecture, 1 hour; field work, 6 hours.

Internship in a recreation agency or related activity with responsibility to supervise recreation aides and/or group leaders, while under the direction of qualified personnel.

911-921-931-941 Cooperative Education - Recreation (1-4) CSU

Recreation is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

RESPIRATORY THERAPY (RESP TH)

Enrollment in all classes listed below except Respiratory Therapy 1 and Respiratory Therapy 2 limited to students enrolled in the Respiratory Therapy Phase II program All transcripts outside of LACCD must be submitted by April 1 to validate corequisites in RT2 to be considered for the acceptance pool. In the event that there are more applicants than clinical space available, enrollment into the clinical internship will be determined by application date to LAVC.

(Students must be formally admitted to Phase II, the clinical phase of the Respiratory Therapy program which includes Respiratory Therapy 3, 4, 5, 6, 7, 8, 11, and 15. Consult the Health Science Department for details.) For more information on the RT Program Application Process and Phase II requirements see page 69.

1 Introduction to Respiratory Therapy ‡ (1)

Prerequisite: None.

Lecture, 1 hour.

An introduction to the profession of respiratory therapy with emphasis on the duties, responsibilities and qualifications of a respiratory therapist. An introduction of techniques and essential equipment for patient treatment is presented.

2 Fundamentals of Respiratory Therapy ‡ (4)

Corequisites: *Physiol 8 and 9; or Anatomy 1 and Physiol 1; Chem 51; Micro 20; Physics 5 and Resp Th 1.*

Lecture, 3 hours; laboratory, 3 hours.

Basic respiratory therapy theory, application, and equipment. This course acquaints the student with most of the available equipment used in the field of respiratory therapy, and its maintenance.

3 Applications of Respiratory Therapy & Clinical Experience I ‡ (5)

Prerequisite: *Resp Th 15 with a grade of C or better.*

Corequisite: *Resp Th 6.*

Offered only in the Fall semester.

Laboratory, 15 hours.

The student is introduced to the hospital and its facilities. Patient relationships and care in many specialty areas are explained and experience obtained. The acute treatment of the severely ill patient is explained in detail.

4 Applications of Respiratory Therapy & Clinical Experience II ‡ (5)

Prerequisite: *Resp Th 3 with a grade of C or better.*

Corequisite: *Resp Th 6.*

Offered only in the Fall semester.

Laboratory, 15 hours.

The student begins to receive instruction in the sub-specialty fields of medicine. An introduction to cardiopulmonary resuscitation and mechanical ventilation is provided to expand the knowledge and clinical performance.

5 Application of Respiratory Therapy & Clinical Experience III ‡ (5)

Prerequisites: *Resp Th 4 and 6 with grades of C or better.*

Corequisites: *Resp Th 7 and 8.*

Offered only in the Spring semester.

Laboratory, 15 hours.

The student is exposed to the total treatment of the patient. Case presentations and discussion periods are held weekly, including pediatric and neonatal cases.

6 Respiratory Physiology ‡ (4)

Prerequisites: *Resp Th 1, 2, and 15 with grades of C or better.*

Corequisites: *Respiratory Therapy 3.*

Offered only in the Fall semester.

Lecture, 4 hours; laboratory 2 hours.

Respiratory physiology is presented in detail, including perfusion, ventilation and diffusion, extensive anatomy, transport of blood gases and their determination and acid-base balance.

7 Applied Medicine and Pathology ‡ (3)

Prerequisite: *Resp Th 4 and 6 with grades of C or better.*

Corequisites: *Resp Th 5 and 8.*

Offered only in the Spring semester.

Lecture, 3 hours; laboratory 2 hours.

Physiology and pathology necessary to the understanding of the treatment of the patient by the respiratory therapist are presented. Pharmacology of drugs used in Respiratory Therapy is provided.

8 Administrative Procedures of Respiratory Therapy ‡ (1)

Prerequisite: *Resp Th 4 and 6 with grades of C or better.*

Corequisites: *Resp Th 5 and 7.*

Offered only in the Spring semester.

Lecture, 1 hour.

Acquaints the student with the principles and practices involved in the supervision of a respiratory therapy department.

11 Application of Respiratory Therapy & Clinical Experience IV ‡ (5)

Prerequisite: *Resp Th 5 with a grade of C or better.*

Corequisites: *Resp Th 7 and 8.*

Offered only in the Spring semester.

Laboratory, 15 hours.

The student is exposed to the total treatment of the patient. Case presentations and discussion periods are held weekly. Pulmonary function testing and home care is discussed and experience is obtained.

15 Introduction to Clinical Experience ‡ (4)

Prerequisites: *Resp Th 1 and 2 and Psych 1 all with grades of C or better.*

Offered only in the Summer session.

Laboratory, 11 hours.

Clinical insight in the actual duties of a respiratory therapist and an introduction to patient relationships. In addition, the student will learn the uses of sterilization methods, medical gas therapy, and aerosol therapy.

911-921-931-941 Cooperative Education - Respiratory Therapy (1-4) CSU

Respiratory Therapy is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

SOCIOLOGY (SOC)

1 Introduction to Sociology (3) UC:CSU ☼

(CAN SOC 2)

Prerequisite: None.

Lecture, 3 hours.

This introductory course provides a set of concepts and theories to describe and explain the social behavior of human beings. The course covers subjects such as culture, social organization, socialization and personality, deviance, social stratification, and the institutions of the family, religion, education, politics, and the economy.

2 American Social Problems (3) UC:CSU

(CAN SOC 4)

Prerequisite: None.

Lecture, 3 hours.

Sociological concepts and theories are used to describe and explain a range of social problems that exist in the United States, such as issues of changing morals, sexual identity, suicide, drugs, marriage, population, minorities, crime, wealth and poverty, political radicalism and weapons of mass destruction.

3 Crime and Delinquency (3) UC:CSU ☼

Prerequisite: None.

Lecture, 3 hours.

Examines the concept of crime as it is defined by various localities, including cross cultural examples. Class analysis is used to examine the meaning of crime, who defines any action or omission of action as crime, and who adjudicates such actions. Theories as to causation of crime are presented in both historical and cross cultural settings. Race and gender are examined in regard to type of crime committed and penalties imposed. Crime is examined as it applies to both juvenile and adult members of the society, along with available programs for prevention of crime and the rehabilitation of the defined criminal.

4 Sociological Analysis (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

This class considers the logic of the scientific analysis of society and social institution. Analyzes the various methodological tools utilized in social science research and emphasizes clarification of basic social science issues. Topics include research design, conceptualization, measurement, sampling methodology, and both qualitative and quantitative data analysis. Students will analyze specific data collected in the field.

11 Race and Ethnic Relations (3)

UC:CSU

Prerequisite: None.

Lecture, 3 hours.

Examines the definitions, history, and experiences of ethnic and racial groups in this country. Attention is given to Black, Latino, Native American, Asian American, and White Americans. What social, economic, and political factors affect majority-minority relations? What are the sources of discrimination? Of prejudice? Is social equality between different groups possible?

12 Marriage and Family Life (3)

UC:CSU

(CAN H EC 12)

(Same as Fam & CS 31)

Prerequisite: None.

Required for all Child Development majors.

Lecture, 3 hours.

Examines contemporary issues in family living in terms of the students self-understanding and personal objectives for establishing family relations. The shifting patterns of family styles and new definitions and interpretations of marital values, attitudes, and goals are discussed against the background of technological and social change. Areas covered include mate selection, alternatives to marriage, traditional marriage patterns, love, sexual expression, the women's movement, conflict, divorce, and parenthood.

17 Introduction to Counseling (3) CSU

Prerequisite: None.

Lecture, 3 hours.

Introduction to methods, major theories and techniques of counseling. Representative problems covering a wide range of settings are considered. Topics include: dysfunctional families, domestic violence, incest, crisis intervention, suicide prevention, drug and alcohol abuse, sociopathic personalities, multicultural issues, death and dying, serial killers, and the nature of neuroses and psychoses.

21 Human Sexuality (3) UC:CSU ☼

Prerequisite: None.

Lecture, 3 hours.

This interdisciplinary course will present a sociological and psychological introduction to human sexuality and human sexual behavior. It will discuss the psycho-sexual development of the individual, the scripts that are learned in our culture, the comparative information from other cultures and other times in our history, how people use sexuality in interpersonal relationships. The study of the anatomy and physiology of the human sexual system, the physical and emotional orgasmic response, myths and misconceptions, sexual variance and dysfunction all will be used to help the student to achieve a realization of his/her own unique sexuality.

22 Sociology of Women (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

Examines the role of women within the institutional framework. The historical and contemporary effects of educational, industrial, religious, and legal systems are examined in relationship to the way in which women are viewed in America and other countries.

25 Drugs and Culture ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

Drugs and their effects on the population are considered both for the user and non-user. Cultural aspects of drug use are examined using class, race and gender as mediating factors, as well as the values and norms placed upon their use. Societal systems are examined to understand why substances are labeled as drugs. The economic, legal and judicial systems and their relations to the concepts of drug usage are looked at in several societies. Emphasis is placed upon methods of treatment and penalties attached to the violation of the norms on drug usage.

35 The Labor Movement (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

This course presents an overview and history of the labor movement in the U.S. beginning with slavery and moving on to the rise of labor unions and the middle class. The sociological perspective on labor includes major figures in the labor movement, prominent theories, and analysis of the impact on labor of the Industrial Revolution and wars.

84 SIMSOC: Simulated Society (1)

Prerequisite: None.

Lecture, 3 hours.

Students simulate a society, actively learning sociological concepts such as status, role, primary group, power, and hierarchy. The game takes approximately 14 hours to play and students have great fun learning about the working of society and how social structure emerges from group dynamics and the exchange of resources.

185 Directed Study - Sociology (1) CSU RPT2**285 Directed Study - Sociology (2) CSU****385 Directed Study - Sociology (3) CSU**

Prerequisite: None.

Conference, 1 hour per unit.

Allows students to pursue Directed Study in Sociology on a contract basis under the direction of a supervising instructor. See current schedule of classes for details. *Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.*

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911-921-931-941 Cooperative Education - Sociology (1-4) CSU

Sociology is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

SPANISH**1 Elementary Spanish I (5) UC:CSU**

(SPAN 1 & 2 = CAN SPAN SEQ A)

(CAN SPAN 2)

Corresponds to the first year of high school Spanish.

Prerequisite: None.

Lecture, 5 hours.

Emphasizes the fundamentals of Spanish pronunciation, grammar, vocabulary, sentence structure, and idiomatic expressions; stresses the ability to understand read, write, and speak simple French; introduces cultural insights into Spanish and Latin American worlds. Use of the language laboratory may be required. Basic computer knowledge required for interactive activities.

2 Elementary Spanish II (5) UC:CSU

(SPAN 1&2 = CAN SPAN SEQ A)

(CAN SPAN 4)

*Corresponds to the second year of high school Spanish.***Prerequisite:** Spanish 1 or Spanish 22 with grade of C or better, or equivalent skill level. **Lecture, 5 hours.**

Completes the study of elementary grammar. Includes the reading of simplified texts with continued emphasis on aural and written comprehension, oral expression, and the writing of simple Spanish. Further study of Spanish and Hispanic cultures. Use of the language laboratory may be required. Basic computer skills required for accessing online activities.

3 Intermediate Spanish I (5) UC:CSU

(CAN SPAN 8)

Prerequisite: Spanish 2 with grade of C or better, or equivalent skill level.**Lecture, 5 hours.**

A more intensive study of the language, including idiomatic expressions and irregular structures. Stress on fluency in oral expression and facility in writing. Comprehensive review of grammar and study of advanced grammatical concepts. Extensive reading and discussion in Spanish of literary and cultural texts. Discussion, in Spanish, of Spanish and Spanish-American life and difficulties. Basic computer skills required for accessing online activities.

4 Intermediate Spanish II (5) UC:CSU

(CAN SPAN 10)

Prerequisite: Spanish 3 with grade of C or better or equivalent skill level.**Lecture, 5 hours.**

Further development of writing and communication skills through the study of representative Spanish and Latin American literary and cultural works; focus is on analysis and discussion. Sustained study of grammar and vocabulary with emphasis on complex structures, stylistics, and use of idiomatic expressions. Basic computer skills required for accessing online activities.

5 Advanced Spanish I ‡ (5) UC:CSU*Prerequisite:* Spanish 4 with a grade of C or better or equivalent skill level.**Lecture, 5 hours.**

Introduction to the major literary movements in Latin American literature through the study of representative literary and cultural texts of different genres. Emphasis on improving oral expression, comprehension, reading and textual analysis, and composition. Stresses oral and written reports within the context of Latin American literature and civilization. Basic computer skills required for accessing and performing online activities.

6 Advanced Spanish II ‡ (5) UC:CSU*Prerequisite:* Spanish 5 with a grade of C or better or equivalent skill level.**Lecture, 5 hours.**

Study of the major literary movements in Spanish literature through the study of representative literary and cultural texts of different genres. Emphasis on improving oral expression, comprehension, reading and textual analysis, and composition. Stresses oral and written reports within the context of the literature and civilization of Spain. Basic computer skills required for accessing and performing online activities.

8 Conversational Spanish ‡ (2) UC:CSU RPT3*Prerequisite:* Spanish 2 with a grade of C or better or equivalent skill level. (Not open to native speakers of Spanish)**Lecture, 2 hours.**

Practical conversation and improvement of conversational fluidity based on everyday experiences, current events, cinema, cultural topics and readings. Emphasis on use of idiomatic expressions and current usages. Training in pronunciation, enunciation, and vocabulary-building. Basic computers required for accessing online information. Not open to native speakers of Spanish.

SPANISH 8 IS REPEATABLE BUT MAXIMUM UC CREDIT IS 4 UNITS.

9 Hispanic Civilization ‡ (3) UC:CSU*Prerequisite:* None.*(Taught in English)***Lecture, 3 hours.**

A study of the origins, growth and development of Spanish civilization in the various domains. Emphasis on Spain's cultural history, art, architecture, music, and the minor arts. It is especially recommended for all students of Spanish and is required of Spanish majors at the University of California, Los Angeles. Taught in English.

10 Latin-American Civilization ‡ (3) UC:CSU*Prerequisite:* None. (Taught in English)**Lecture, 3 hours.**

A study of the geography, history, customs, political movements, literature and arts of Spanish-speaking and Portuguese-speaking people of the Americas. Especially recommended for all students of Spanish. Taught in English.

12 Contemporary Mexican Literature ‡ (3) UC:CSU*Prerequisite:* None.*(Same as Chicano Studies 42)***Lecture, 3 hours.**

An introduction to major historical events and literary movements in Mexico, with a focus on 20th century Mexican literature read in translation. Lectures, readings and discussions in English.

16 Mexican Civilization ‡ (3) UC:CSU*(Same as Chicano Studies 44)**Prerequisite:* None.*(Taught in English)***Lecture, 3 hours.**

Considers the significant elements of pre-Columbian Mexican civilization, the impact of the Spanish domination upon the indigenous population and its influence upon the mores, art, and industry. Studies in the history, literature, art, music of Mexico as they evolved from colonial times to the present. The impact of the Mexican Revolution upon all the Americas is considered. Examines the present-day culture of Mexican-Americans as influenced by their Mexican heritage and life in the United States.

21 Fundamentals of Spanish I ‡ (3) UC:CSU*Prerequisite:* None.**Lecture, 3 hours.**

This course is for absolute beginners.

Covers the first half of Spanish 1.

Introduction to the fundamentals of Spanish pronunciation, grammar, vocabulary, sentence structure, and use of idiomatic expressions. Stresses the ability to understand, read, write, and speak simple Spanish. Introduces cultural insights into Spanish and Spanish-speaking worlds. Use of the language laboratory may be required. Basic computer knowledge required for interactive activities. Spanish 21 + 22 are equivalent to Spanish 1.

SPANISH 21 & 22 COMBINED: MAXIMUM UC CREDIT, 5 UNITS. BOTH MUST BE TAKEN FOR ANY UC CREDIT TO BE GRANTED.

22 Fundamentals of Spanish II ‡ (3) UC:CSU

Prerequisite: Spanish 21 with a grade of C or better.

Lecture, 3 hours.

Continuation of Spanish 21. Covers the second half of Spanish 1. Introduction to the fundamentals of Spanish pronunciation, grammar, vocabulary, sentence structure, and idiomatic expressions. Stresses the ability to understand, read, write, and speak simple Spanish. Introduces cultural insights into Spanish and Spanish-speaking worlds. Use of the language lab may be required. Basic computer use required for online assignments. Spanish 21 + 22 are equivalent to Spanish 1.

SPANISH 21 & 22 COMBINED: MAXIMUM UC CREDIT, 5 UNITS. BOTH MUST BE TAKEN FOR ANY UC CREDIT TO BE GRANTED.

35 Spanish for Spanish Speakers I (5) UC:CSU

Prerequisite: None.

Lecture, 5 hours.

Designed to address the needs of the bilingual student. An introduction to written Spanish with an emphasis on the acquisition of a solid grammatical base, vocabulary enrichment and spelling. Addresses all four skills in Spanish (speaking, listening, reading, writing), but focuses on reading and writing. Includes readings on the geography, customs and culture of Spain and Latin America. Credit given for either Spanish 35 or Spanish 1, but not both.

36 Spanish for Spanish Speakers II (5) UC:CSU

Prerequisite: Spanish 35 with a grade of C or better or equivalent skill level.

Lecture, 5 hours.

A continuation of Spanish 35. Advances the study of grammar and complex vocabulary. Addresses all four skills in Spanish (speaking, listening, reading, writing), but continues to focus on the development of reading and writing skills. Further study of Spanish and Latin American cultures and civilization.

Credit given for either Spanish 36 or Spanish 2, but not both.

46 Chicano Literature/Literatura Chicana ‡ (3) UC:CSU ☼

(Same as Chicano Studies 37)

Prerequisite: None.

Lecture, 3 hours.

An analysis of the literary, social, and historical aspects of works written by Mexican American authors. Course will be conducted in English but texts may be read in either English or Spanish.

48 Introduction to Spanish Translation I ‡ (3) CSU

Prerequisite: Spanish 3 with a grade of C or better or equivalent level.

Lecture, 3 hours.

An introduction to basic translation theory with emphasis on grammar, vocabulary and idiomatic expressions. Focus on Spanish-to-English and English-to-Spanish translation of consumer-oriented texts, such as commercial advertisements, correspondence, legal documents, news articles, and websites. For students whose career options require bilingual skills.

185 Directed Study - Spanish (1) CSU RPT2

285 Directed Study - Spanish (2) CSU

385 Directed Study - Spanish (3) CSU

Prerequisite: Approval of project.

Conference, 1 hour per unit.

Allows students to pursue Directed Study in Spanish on a contract basis under the direction of a supervising instructor.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

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911-921-931-941 Cooperative Education - Spanish (1-4) CSU

Spanish is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

SPEECH

61 Speech Laboratory (1) NDA RPT3

Prerequisite: None.

Laboratory, 3 hours.

This course is designed to help the native and non-native speaker improve articulation, voice and communication skills through individualized programs, including small group instruction and specially designed taped materials. Also for those with voice, speech and articulation problems.

62 Speech Laboratory Techniques ‡ (1) NDA RPT3

Prerequisite: None.

Laboratory, 3 hours.

Speech 62 is designed for students who have major problems in acquiring the sounds of American speech which have not yielded to 3 repetitions of Speech 61.

63 Beginning Conversational Speech Skills (3) RPT1

Prerequisite: None.

Lecture, 3 hours.

This course is designed for students who wish to improve their aural comprehension of English and to increase their ability to make themselves understood, using conversational American English speech.

64 Basic Speech Skills (3) NDA RPT1

Prerequisite: None.

Lecture, 3 hours.

A course designed to help non-native speakers acquire basic American speech/English sounds. This is the entry level English Speech as a Second Language class.

66 Advanced Speech Skills (3) NDA RPT1

Prerequisite: None.

Lecture, 3 hours.

A course is designed for students who have a basic ability to produce American English speech sounds, but who need to acquire and/or improve their ability to produce difficult consonant and vowel sounds, and to produce complicated consonant blends and clusters. Although principally directed toward expressive speech, students will also be made aware of the differences between English phonemes and the sounds of their own language.

101 Oral Communication I

(3) UC:CSU ☼

(CAN SPCH 4)

Prerequisite: None.

Lecture, 3 hours.

An introductory course stressing the need for effective oral communication. The emphases in the course are on: structuring various types of speeches, researching information, audience analysis, presentation of speeches and building self confidence in public speaking situations.

102 Oral Communication II

(3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

An introductory course that emphasizes the debate process. Fundamentals of effective argumentative speaking are examined. Oral activities are used extensively as learning devices.

104 Argumentation (3) UC:CSU ☉

(CAN SPCH 6)

Prerequisite: None.**Lecture, 3 hours.**

A course that seeks to explore the various steps in the critical thinking process. Emphasis is placed on both how and why we make the decisions we do. Topics explored include: claims, definitions, evidence, reasoning, fallacies, case building, etc.

105 Critical Thinking (3) UC:CSU ☉*Prerequisite:* English 101 with a grade of C or better.**Lecture, 3 hours.**

Instruction in this course is designed to allow students an understanding of the relationship of language to logic, which should lead to the ability to analyze, criticize and advocate ideas, to reason inductively and deductively, and to identify the assumptions upon which particular conclusions depend. This class has a minimum 6,000 word writing component.

106 Forensics (2) CSU RPT3*Prerequisite:* None.**Laboratory, 6 hours.**

Designed for speech tournament competition, including individual and team events.

111 Voice and Articulation (3) CSU*Prerequisite:* None. (Same as Theater 240)**Lecture, 3 hours.**

Study of pitch and volume control, articulation, pronunciation and enunciation; and learning experiences in relating all these elements through oral exercises. This is a second level English Speech as a Second Language class.

113 English Speech as a Second Language (3) CSU RPT1*Prerequisite:* None.**Lecture, 3 hours.**

This English speech improvement class is for students with foreign language backgrounds and stresses pronunciation, intonation, idiomatic expressions, phrasing, grammar and vocabulary. Includes speaking assignments prepared by students. This is a third level English Speech as a Second Language class.

121 The Process of Interpersonal Communication (3) UC:CSU*Prerequisite:* None.**Lecture, 3 hours.**

A lecture/activity/discussion course which proceeds through an analysis of the views of the scope and purpose of human communications. Factors involved in the process of communicating. Perception, self image, listening, non-verbal, conflict, language, relationships. Emphasis is placed on the process of interpersonal communication.

122 Communication Across Cultures (3) UC:CSU*Prerequisite:* None. Recommended: English 21.**Lecture, 3 hours.**

Examines communication in the context of intercultural interactions. Explores verbal and nonverbal communication similarities and differences in communication across cultures. Provides strategies to enhance interpersonal communication skills within the context of intercultural communication.

130 Introduction to Oral Interpretation of Literature (3) UC:CSU*Prerequisite:* None.**Lecture, 3 hours.**

Development of the students ability to understand, appreciate, relate to, and perform various forms of literary art. Emphasis is placed on the selection and adaptation of worthwhile literary material, as well as on artistic and effective vocal and gestural presentation.

137 Interpreters Theater (1) UC:CSU RPT3*Prerequisite:* None.**Laboratory, 3 hours.**

Supervised activity in group interpretation of various forms of literary and non-literary materials. Oral presentation of scripted materials ranging from group arranged original writings to traditional literary forms. Emphasis is placed on developing public presentation skills and techniques.

151 Small Group Communication (3) UC:CSU*Prerequisite:* None.**Lecture, 3 hours.**

Provides an analysis of the purposes, principles, and types of group processes. Development of individual skills in leadership, problem solving, etc. is achieved by responsible group participation.

185 Directed Study - Speech Communication (1) CSU RPT2**285 Directed Study -****Speech Communication (2) CSU****385 Directed Study -****Speech Communication (3) CSU***Prerequisite:* None.**Conference, 1 hour per unit.**

Allows student to pursue Directed Study in Speech Communication on a contract basis under the direction of a supervising instructor.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

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911-921-931-941 Cooperative Education - Speech Communication (1-4) CSU

Speech Communication is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

STATISTICS (STAT)

(For Statistics see also Math 225)

1 Elementary Statistics I for the Social Sciences (3) UC:CSU ☉*Prerequisite:* Mathematics 125 with a grade of C or better or equivalent.**Lecture, 3 hours.**

Introduces the fundamental tools of quantitative methods in research, including: techniques of data collection, organization, presentation, analysis and interpretation.

Special attention given to such topics as (1) tabulation and graphic presentation of data; (2) measures of central tendency and variability of sample data; (3) the normal curve and its properties; (4) introduction to probability and statistical inference; (5) linear correlation; and (6) research methods.

MATH 225 AND STAT 1 COMBINED, MAXIMUM UC CREDIT, ONE COURSE.

THEATER

Theater majors should take two of the following: Theater 301, 310, 315, 325, 450.

100 Introduction to the Theater (3) UC:CSU

(CAN DRAM 18)

Prerequisite: None. *Open to all students.*

Lecture, 3 hours.

A survey course which orients beginning students with the theater and/or other mass media, its historical and cultural background, arts and crafts, fundamental skills, activities and opportunities, and its significance in contemporary society through lectures, demonstrations, and assigned readings.

110 History of the World Theater I (3) UC:CSU

Prerequisite: None.

Required of all theater majors.

Open to all students.

Lecture, 3 hours.

A history of the development of the theater, its playwrights, structures, and methods of staging and acting from the Greeks to the beginning of the modern theater.

112 History of the World Theater II (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

A history of the development of the theater, its playwrights, structures and methods of staging and acting, from English Restoration through the Twentieth Century, including development in non-Occidental theatre.

125 Dramatic Literature ‡ (3) UC:CSU

(Same as English 213)

Prerequisite: None.

Lecture, 3 hours.

A survey of the dramatic literature of the Western World from the early beginnings to the present day. The influence of the theater and dramatic literature as a social and cultural force will be stressed.

130 Playwriting ‡ (3) UC:CSU RPT1

Prerequisite: None.

Lecture, 3 hours.

Training is given in the fundamentals of effective stage, film, and TV writing leading to possible production in the one-act program or film workshop.

225 Beginning Direction (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

A study of the principles of casting, rehearsal scheduling, aims and conducting of rehearsals, and orchestration of all production phases is made through lectures, reading assignments, class projects and the preparation of a complete directors production script.

227 Advanced Direction (3) UC:CSU RPT1

Prerequisite: Theater 225 with a grade of C or better.

Laboratory, 6 hours.

The direction and production of one-act plays for the laboratory theater or other productions under faculty supervision.

232 Play Production (2) UC:CSU RPT3

Prerequisite: None.

Laboratory, 6 hours.

Practical experience in auditioning, rehearsing, and producing plays for public presentation.

233 Play Production (3) UC:CSU RPT3

Prerequisite: Theater 301 and Theater 325 with a grade of C or better.

Laboratory, 9 hours.

(Students are expected to be available for rehearsals of all major productions.) Practical experience in play selection, casting and organization, costume and scenery designing, set construction and lighting. Plays are mounted and performed for public presentation.

240 Voice and Articulation for the Theater ‡ (3) UC:CSU

Prerequisite: None. (Same as Speech 111)

Designed for performing arts students.

Lecture, 3 hours.

The students are introduced to the fundamentals of effective vocal production and the techniques of voice improvement as applied to the stage and other media of the atrical performance through basic vocal exercises and practice and production of interpretative reading. A study is made of the physiological and acoustical factors determining effective performance for the theater.

270 Beginning Acting (3) UC:CSU

(CAN DRAM 8)

Prerequisite: None.

Required of all theater majors.

Lecture, 3 hours.

Theory and practice of basic acting and stage movement. Students are made aware of their body as an instrument in their total development as actors. How to prepare for rehearsal is emphasized.

272 Intermediate Applied Acting (3) UC:CSU

Prerequisite: Theater 270 with grades of C or better.

Required of all theater acting majors.

Laboratory, 6 hours.

The principles of creative acting as applied to structure and characterization through actual performance, with special attention to the development of the students individual capacity; emphasis on contemporary theater.

274 Advanced Applied Acting ‡ (3) UC:CSU RPT1

Prerequisite: Theater 272 with grades of C or better.

Laboratory, 6 hours.

This fundamental study deals with the problem the actor faces when working with roles outside the realm of the standard contemporary theater. The areas studied will include the Greek, Elizabethan, Restoration, Epic Theater, Theater of the Absurd, and special problems in the modern theater. Students will prepare and present scenes from each of the areas studied.

275 Theater - Scene Study ‡ (2) CSU RPT 3

Prerequisite: None.

Laboratory, 3 hours.

Examines the performers individual problems through rehearsal, improvisations and the presentation of acting scenes.

276 Actors Workshop ‡ (3) CSU RPT3

Prerequisite: None.

Laboratory, 6 hours.

Students are made more aware of their individual acting problems and their solutions.

279 Musical Theater ‡ (2) UC:CSU RPT3

Prerequisite: None.

Lecture, 1 hour; laboratory, 2 hours.

The primary emphasis in this course is placed upon the problems of stage movement, character movement, and simple dance movement as related to musical theater. Attention is also given to the musical demands placed upon the singer who wishes to perform in this area of the theater.

293 Rehearsals and Performances (3) UC:CSU RPT3

Prerequisite: None. *Open entry/open exit.*

Laboratory, 9 hours.

Experience is given in the acting, directing, and producing of full-length plays for public presentation.

301 Stage Craft (3) UC:CSU

Prerequisite: None.

Lecture, 2 hours; laboratory, 2 hours.

The study of and laboratory practice in the practical problems in the mounting of a stage production.

310 Introduction to Theatrical Lighting ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

Theory and practice in the problems of lighting for stage and motion pictures. Related topics considered are personnel organization, scene design, and special techniques.

315 Introduction to Theatrical Scenic Design ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

Theory and training are given in problems of designing for television, stage, and motion pictures. Related topics considered are personnel organization, lighting and construction.

317 Color and Design for the Theater (3) CSU

Prerequisite: None.

Lecture, 3 hours.

This course acquaints students with the basic principles of design that govern all forms of visual expression emphasizing those used in the theatre. It also provides students with the ability to communicate in visual terms.

323 Stage Management and Production ‡ (3) UC:CSU

Prerequisite: None.

Lecture, 3 hours.

A study of the duties and responsibilities of a production stage manager. Related topics and production manager, tech director and company manager.

325 Stage Management and Advanced Stagecraft ‡ (3) UC:CSU RPT3

Prerequisite: None.

Lecture, 2 hours; laboratory, 2 hours.

A study of all phases of stagecraft.

350 Theater Management (3)

Prerequisite: None.

Lecture, 3 hours.

Theory and practice in the managerial aspects of all theatrical media.

405 Costume Design (3)

Prerequisite: None.

Lecture, 3 hours.

A survey of historical periods and their application to the stage; an intensive study of costuming and renting procedures; use of shop procedures; beginning principles and techniques of design; the use of basic patterns in relation to a practical construction project.

422 Applied Costuming for the Theater (2) RPT3

Prerequisite: Theater 405 with a grade of C or better.

Laboratory, 6 hours.

Practical assignments are made in the construction and maintenance of costumes used in plays presented to the public. Major areas emphasized: Wardrobe master, Repair, Cleaning and storage procedures. Student must be available for rehearsals and performances.

450 Beginning Stage Make-Up ‡ (2) UC:CSU

Prerequisite: None.

Lecture, 1 hour; laboratory, 3 hours.

A study of the basic tools, materials, techniques, and methods of make-up which might be used in various roles on the stage, in television, and films. This is a skills course in which the student executes practical assignments from straight through character, old age, hair, stylized fantasy, and facial distortion.

451 Advanced Stage Make-Up ‡ (2) UC:CSU RPT1

Prerequisite: Theater 450 with a grade of C or better.

Lecture, 1 hour; laboratory, 3 hours.

A further study of the art of make-up with emphasis on advanced techniques. Considerable time will be spent with the problems of Prosthesis, i.e., casting for, types, and application. Other areas of study will include hair, make-up for mediums other than the stage, and special problems.

185 Directed Study - Theater (1) CSU RPT2**285 Directed Study - Theater (2) CSU**
385 Directed Study - Theater (3) CSU

Prerequisite: None.

Conference, 1 hour per unit.

Allows students to pursue Directed Study in Theater on a contract basis under the direction of supervising faculty.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

UC CREDIT FOR INDEPENDENT STUDY/DIRECTED STUDY COURSES NUMBERED 185, 285, AND 385 IN ANY DEPARTMENT IS NOT AUTOMATIC; CREDIT IS CONTINGENT ON UC CAMPUS EVALUATION AFTER APPLICATION AND ADMISSION. THESE UNITS SHOULD NOT BE USED TOWARD CALCULATION OF THE MINIMUM 60 UNITS NEEDED FOR ADMISSION TO THE UC.

911-921-931-941 Cooperative Education - Theater (1-4) CSU

Theater is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

TOOL AND MANUFACTURING TECHNOLOGY (T & M)**27 Basic Machine Shop Theory and Practice (4)**

Prerequisite: None.

Lecture, 2 hours; laboratory, 4 hours.

Provides an introduction to the fundamentals of machine shop theory and practice. Prescribed study and projects are designed to give experience with five basic machine tools. This course is the basis for entry into many trade areas from machinist to numerical control.

30 Machine Shop Practice I (3)

Prerequisite: None.

Lecture, 1 hour; laboratory, 5 hours.

Advanced lathe operation including taper turning, internal thread cutting, precision boring and other chucking operations and tool grinding. Milling machine and shaper practice including contour and angular surfacing operations and rack and spur gear cutting. Basic oxyacetylene welding techniques. Deals with equipment used, applications, safety and limitations. Includes fusion welding and brazing of light gauge metal. Theory and application of resistance welding and further use of the oxyacetylene flame including silver brazing and flame cutting.

31 Machine Shop Practice II (3)

Prerequisite: None.

Lecture, 1 hour; laboratory, 5 hours.

Continues training to increase knowledge and skills in the operation of machine tools and accessory equipment. Includes use of optical comparator, precision measuring instruments and other high precision layout and inspection equipment. Requires close tolerance work with different types of material used in industry.

32 Machine Shop Practice III (3)

Prerequisite: None.

Lecture, 1 hour; laboratory, 5 hours.

Provides extended training to increase knowledge and skills in the operation of machine tools and accessory equipment. Abrasives and their application are discussed. Includes use of surface grinder and tool and cutter grinder. Close tolerance work and precision inspection emphasized.

40 Industrial Tool Design I (4)

Prerequisite: None.

Lecture, 3 hours; laboratory, 3 hours.

A comprehensive study of the underlying principles of tool design through the preparation of drawings of machine fixtures, assembly jigs, and handling fixtures. Emphasis is placed on techniques of design, applied mathematics, metallurgy, mechanics, and machine shop practice.

66 Manufacturing Problem Solving (3)

Prerequisite: None.

Lecture, 3 hours.

Problem solving in relation to manufacturing and continuous process improvement.

70 Basic Manufacturing Processes I (1)

Prerequisite: None.

Lecture, 1 hour.

This course surveys the manufacturing industry as it pertains to the machine shop. Needs and requirements of the industry in today's global economy are discussed. Manufacturing processes are introduced as well as new technology and equipment utilized in today's industry. Manufacturing Processes constitute the core of the of the modern production industry.

71 Basic Manufacturing Processes II (1)

Prerequisite: None.

Lecture, 1 hour.

This course provides the student with an understanding of Quality Control Procedures in the manufacturing industry as it pertains to the machine shop. Metrology control procedures and calibration, inspection procedures, interpretation of symbols and abbreviations as it pertains to Geometric Dimensioning and Tolerances are discussed.

81 Projects Laboratory ‡ (1) RPT3

Prerequisite: None.

Laboratory, 3 hours.

Provides basic and advanced laboratory experience in machine tool operations and tool making practices. Students work on assigned projects that include planning, designing and manufacture of production tools.

185 Directed Study Tool and Manufacturing Technology (1) RPT2**285 Directed Study Tool and Manufacturing Technology (2)**

Prerequisite: None.

Conference, 1 hour per unit.

Allows students to pursue Directed Study in Tool and Manufacturing Technology on a contract basis under the direction of supervising faculty.

Credit limit: A maximum of 3 units per subject in Directed Study may be taken for credit.

911-921-931-941 Cooperative Education - Tool and Manufacturing Technology (1-4)

Tool and Manufacturing Technology is approved for Cooperative Work Experience Education credit. See Cooperative Education, page 72, for prerequisite, course description and credit limits.

WORD PROCESSING

(See Computer Applications & Office Technologies)

YIDDISH**1 Elementary Yiddish I ‡ (3) UC:CSU**

(Same as Jewish Studies 7)

Prerequisite: None.

Lecture, 3 hours.

This beginning course in the Yiddish language teaches basic reading, writing, speaking, and comprehension; it also provides an introduction to the history of Yiddish as a mirror of the last 1,000 years of Ashkenazic Jewish life. Folklore, folksongs, literature, and conversational Yiddish supplement the basic course materials.

2 Elementary Yiddish II ‡ (3) UC:CSU

(Same as Jewish Studies 8)

Prerequisite: Yiddish I with a grade of C or better.

Lecture, 3 hours.

Attention to grammar, syntax, vocabulary, and conversational skills is given in addition to attainment of greater proficiency in reading and writing. Opportunities are provided for reading and studying Yiddish poetry and prose in the original.

TYPING

(See Computer Applications & Office Technologies.)

COURSE DESCRIPTIONS

(NONCREDIT)

ENGLISH AS A SECOND LANGUAGE (ESL NC)

1CE English as a Second Language Beginning I (0)

Prerequisite: None.

Lecture, 3 hours.

This is an open-entry, open-exit course that emphasizes listening/speaking and reading/writing skills at a beginning level. The focus of the course is on understanding and participating in basic communication and conversation skills in routine social situations. Students read simple passages, and generate and write sentences related to basic communications, housing, food, health, and emergencies.

2CE English as a Second Language Beginning II (0)

Prerequisite: None.

Lecture, 3 hours.

This is an open-entry, open-exit course which emphasizes listening/speaking and reading/ writing skills at a beginning level. This class focuses on understanding and participating in basic communication and conversation skills in routine social situations. Students read simple passages, and generate and write sentences related to survival skills and personal topics.

6CE English as a Second Language – 0 (0)

Prerequisite: None.

Lecture, 12 hours.

This is an open-entry open-exit course that emphasizes listening/speaking skills and reading/writing skills at a literacy level. The focus of the course is on basic survival English skills, English sound/symbol correspondence, and reading and writing of simple English sentences.

7CE English as a Second Language – 1 (0)

Prerequisite: None.

Lecture, 12 hours.

This is an open-entry, open-exit course which emphasizes listening/speaking and reading/ writing skills at a beginning level. This class focuses on understanding and participating in basic communication and conversation skills in routine social situations. Students read simple passages, and generate and write sentences related to survival skills and personal topics.

8CE English as a Second Language – 2 (0)

Prerequisite: None.

Lecture, 12 hours.

This is an open-entry open-exit course which emphasizes listening/speaking skills and reading/ writing skills at a high-beginning level. The focus of the course is on comprehending and engaging in extended conversations related to familiar contexts, such as health, employment, and community resources. Students read simple adapted narrative and descriptive passages and use basic grammatical structures to write short, clearly organized paragraphs and messages.

9CE English as a Second Language – 3 (0)

Prerequisite: None.

Lecture, 12 hours.

This is an open-entry open-exit course that emphasizes listening/speaking and reading/ writing skills at a beginning-high level. The focus of the course is on comprehending and using more complex spoken and written English skills. Students participate in increasingly extended conversations on topics beyond survival needs, such as family responsibilities. Students will develop skills to understand short reading passages and differentiate between fact and opinion with some accuracy as well as write clear and well-organized paragraphs.

15CE English as a Second Language - 4 (0)

Prerequisite: None.

Lecture, 12 hours.

This is an open-entry/open-exit course which emphasizes listening/speaking skills and reading/writing skills at an intermediate-low level. This class focuses on understanding increasingly extended conversations, discussions or lectures, and speaking about familiar topics. Students read authentic material and identify the main idea and make simple inferences. They focus on developing basic paragraph skills including organization, sentence structure, and the writing process.

16CE English as a Second Language - 5 (0)

Prerequisite: None.

Lecture, 12 hours.

This is an open-entry open-exit course which emphasizes listening/speaking skills and reading/writing skills at an intermediate level. This class focuses on comprehending and developing listening and speaking skills on increasingly complex social and academic topics. Students read authentic material and identify the main idea, supplementary details, vocabulary development, and inferences. Students also learn to give brief prepared oral presentations. They focus on developing basic patterns for paragraph and essay writing including organization, sentence structure, and the writing process.

17CE English as a Second Language - 6 (0)

Prerequisite: None.

Lecture, 12 hours.

This is an open-entry open-exit course which emphasizes listening/speaking skills and reading/writing skills at a high-intermediate level. This class focuses on understanding and engaging in extended conversations, discussions, and lectures. Students also learn to give brief impromptu oral presentations. Students read authentic material and identify the main idea, supporting details, vocabulary development, and inferences. They focus on developing organization patterns for compositions and essay writing including organization sentence structure, and the writing process.

23CE English as a Second Language Speech I (0)

Prerequisite: None.

Lecture, 6 hours.

This is an open-entry open-exit course that emphasizes listening/speaking, grammar, and pronunciation skills at an intermediate low level. The focus of the course is on comprehending and developing listening and speaking on topics in social and academic environments. Students also learn to give brief prepared oral presentations. Students will focus on practicing pronunciation skills for better oral communication and developing rhythm, stress, and intonation patterns of English conversation

24CE English and a Second Language Speech II (0)

Prerequisite: None.

Lecture, 6 hours.

This is an open-entry open-exit course which emphasizes listening/speaking, grammar, and pronunciation skills at an intermediate level. This class focuses on understanding and engaging in increasingly extended conversations, discussions, and lectures. Students also learn to give brief impromptu oral presentations. Students focus on practicing more complex pronunciation skills for better oral communication. They also develop rhythm, stress, and intonation patterns of English conversation

ESL CIVICS (ESLCVCS)

(formerly Citizenship)

10CE ESL and Civics 1

Prerequisite: None.

Lecture, 1 hour.

This is an open-entry/open exit course. This course is intended for beginning English speakers at skill level 1, as recommended. Speaking, listening, reading, and writing skills are emphasized. Learners engage in discussions on living in the United States, housing issues, and U.S. history (Colonies, Bill of Rights, and Founding Fathers).

11CE ESL and Civics 2

Prerequisite: None.

Lecture, 1 hour.

This is an open-entry/open-exit course. This course is intended for beginning English speakers at skill level 2, as recommended. Speaking, listening, reading, and writing skills are emphasized. Learners engage in discussions on issues related to employment, job interviewing, and United States history and government (First Government, Constitution, Branches of Government).

12CE ESL and Civics 3

Prerequisite: None.

Lecture, 1 hour.

This is an open-entry/open-exit course. This course is intended for beginning English speakers at skill level 3, as recommended. Speaking, listening, reading, and writing skills are emphasized. Learners engage in discussions on city, county, and community services and topics related to United States history (Civil War and Civil Rights Movement).

13CE ESL and Civics 4

Prerequisite: None.

Lecture, 3 hours.

This is an open-entry/open-exit course. This course is intended for English speakers at skill level 4, as recommended. Intermediate low listening, speaking, reading, and writing skills are emphasized. Learners engage in discussions on education and early United States history (Declaration of Independence, First Four Presidents, Constitution).

14CE ESL and Civics 5

Prerequisite: None.

Lecture, 3 hours.

This is an open-entry/open-exit course. This course is intended for English speakers at skill level 5, as recommended. Intermediate listening, speaking, reading, and writing skills are emphasized. Learners engage in discussions and written assignments on becoming work ready, workplace safety, and interactions with co-workers, as well as the judicial branch of government and national symbols and holidays.

15CE ESL and Civics 6

Prerequisite: None.

Lecture, 3 hours.

This is an open-entry/open-exit course. This course is intended for English speakers at skill level 6, as recommended. Intermediate high listening, speaking, reading and writing skills are emphasized. Learners engage in discussions and written assignments. The focus of the course is on the role of state and local governments, the U.S. electoral process, and living and working in the U.S.

HEALTH AND SAFETY EDUCATION (HLTHED)**8CE Physical Fitness**

Prerequisite: None.

Lecture, 3 hours.

PARENTING (PARENT)**20CE Parent-and-Baby**

Prerequisite: None.

Lecture, 3 hours.

This is an open-entry, open-exit course that will cover issues concerning bed time routines, food and nutrition, reading to infants, discipline, day to day challenges, holiday stress and young children, and diversity. Both Parent and infant (0-3) must attend together.

SUPERVISED LEARNING ASSISTANCE (TUTOR)**1T Supervised Learning Assistance**

Prerequisite: None.

Lab, 20 hours.

Upon faculty/counselor referral, student will receive tutoring in designated subject areas in various tutoring labs on campus. Cumulative progress and attendance records will be maintained for this non-credit, open entry course. Supervised Learning Assistance 001T will not appear on the student's transcript.

VOCATIONAL EDUCATION (VOC ED)**82CE Certified Nurse Assistant**

Prerequisite: None.

Lecture, 2.80 hours, Lab, 12.70 hours.

This course is designed to prepare students for the California State Certified Nursing Assistant Examination. Topics covered include patient rights, communication and interpersonal skills, safe environment, body mechanics, principles of asepsis, weights and measures, resident care skills and procedures, vital signs, nutrition, emergency procedures, long term care resident, rehabilitative/restorative care, observation and charting, and death and dying.

83CE Home Health Aide Program

Prerequisite: VOC ED 82CE

Lecture, 1.16 hours, Lab, 2.16 hours.

This course is designed to prepare students for the California State Certified Home Health Aide License. The program prepares students to appropriately take care of clients in the clients' home. Topics address issues with home safety, nutrition in the home, and working with home health agencies.

109CE Computer Technology in the Workplace

Prerequisite: None.

Lecture, 12 hours, Lab, 2 hours.

This open-entry/open-exit survey course will introduce students to basic computer and information technology in the workplace and explore occupational and career opportunities. The course will provide individualized hands-on training as well as a basic understanding of the fundamental operations of the microcomputer. Areas to be covered will include: Spreadsheet, word processing/data entry and clerical skills.

301CE Customer Service A: Introduction

Prerequisite: None.

Lecture, 0.5 hours; Lab, 0.2 hours

This noncredit open entry/open exit course is designed to provide the student with relevant skills to effectively meet the needs of customers. The student will be introduced to the concept of internal and external customers, customer satisfaction, and customer retention.

302CE Customer Service B: Communicating with People

Prerequisite: None.

Lecture, 0.5 hours; Lab, 0.2 hours

This noncredit open entry/open exit course is designed to introduce the student to key elements in communication with people. The student will learn verbal and non-verbal communication, listening skills, and to be a facilitator of communication skills.

303CE Customer Service C: Team Building

Prerequisite: None.

Lecture, 0.5 hours; Lab, 0.2 hours

This noncredit open entry/open exit course is designed to provide the student with an understanding of teamwork, common problems teams encounter and how to solve them. The students will learn to recognize various team player personalities and styles, and characteristics of an effective team.

304CE Customer Service D: Attitude in the Workplace

Prerequisite: None.

Lecture, 0.5 hours; Lab, 0.2 hours

This noncredit open entry/open exit course is designed to provide the student with key skills in the area of attitude. The student will be introduced to the concepts of "attitude", the three types of attitudes, and how to adjust one's attitude. Topics will also include the primary causes of a bad attitude and turnaround strategies to battle these negative attitudes.

305CE Customer Service E: Values and Ethics

Prerequisite: None.

Lecture, 0.5 hours; Lab, 0.2 hours

This noncredit open entry/open exit course is designed to provide the student with understanding of the importance of values and ethics in the workplace. The importance of values and ethics and why people participate in unethical behavior will be emphasized.

306CE Customer Service F: Time Management

Prerequisite: None.

Lecture, 0.5 hours; Lab, 0.2 hours

This noncredit open entry/open exit course is designed to provide the student with an introduction to the concept of time management principles and specific techniques that assist in maximum use of time. Basic concepts of prioritizing and delegation will be discussed.

307CE Customer Service G: Stress Management

Prerequisite: None.

Lecture, 0.5 hours; Lab, 0.2 hours

This noncredit open entry/open exit course is designed to provide the student with an introduction to stress management and its effects in the workplace. Included is the recognition of internal and external stresses and stress management tips and techniques.

308CE Customer Service H: Conflict Management

Prerequisite: None.

Lecture, 0.5 hours; Lab, 0.2 hours

This noncredit open entry/open exit course is designed to provide the student with an understanding of what conflict is and one's conflict style. The student will learn skills for resolving interpersonal conflict and strategies to bring out the best of others and self.

309CE Customer Service I: Decisions/Problem Solving

Prerequisite: None.

Lecture, 0.5 hours; Lab, 0.2 hours

This noncredit open entry/open exit course is designed to provide the student with an introduction to decision making and problem solving. The student will learn steps in making decisions, blocks to problem solving, and techniques to solving problems.

310CE Customer Service J: Managing Change

Prerequisite: None.

Lecture, 0.5 hours; Lab, 0.2 hours

This noncredit open entry/open exit course is designed to provide the student with an understanding of change and the influence on individuals. Topics will include understanding change, reasons for resistance to change, paradigms and communicating change.