

**San Joaquin Delta College Catalog 98 - 99**

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## NATURAL RESOURCES

### **N R 1 Introduction to Forestry Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to acquaint students with the history of forestry and the lumber industry. Forest resources, management, and legislation are covered. Students study tree identification, timber use, mapping, cruising, and surveying. Career opportunities in forestry are emphasized. (UC, CSU)

### **N R 2 Conservation of Natural Resources Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to cover the intelligent use and protection of natural resources in soil, water, forest, mineral, plant, and animal life. The course includes the role of ecology, history of the conservation movement, modern problems in resource use, and the citizen's role in conservation. (UC, CSU)

### **N R 6 Introduction to Wildlife Management Units 4**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to cover the principles and techniques used in the production and management of waterfowl, big game, upland game, small game, and fish including selected identification, life histories, ecology, and wildlife philosophy. (CSU)

### **N R 10 Introduction to Water Resources Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to cover the intelligent use of water conservation. Water development in California is emphasized along with supply and distribution problems. Fresh and waste water treatments are introduced. (CSU)

### **N R 50H Special Studies: Natural Resources Units 1-2**

*Prerequisites: Reading Level II or concurrent enrollment in reading; completion of survey course with grade of "B" or better and presentation of a project acceptable to the instructor and division chairperson.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is open to students qualified to do advanced work in the field. The course includes research, directed reading, field work, or other advanced study, and the course may be repeated for a maximum of four units. (CSU)

### **N R 68 Applied Aquaculture Units 3**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to enable students to understand the principles associated with rearing and marketing aquatic organisms and their relationship with small scale farming. Laboratory exercises provide students with hands on experiences. Specific areas covered include site selection, species selection, water quality and treatment, aquatic biology and ecology, nutrition, disease, stocking, harvesting, processing, marketing, and record keeping. (CSU)

### **N R 69 Introduction to Aquaculture Units 1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to enable students to understand the basic concepts of aquaculture and how they can be adapted to small scale farming. Specific areas covered are site, site development, water quality, fish selection, diseases, harvesting, and marketing. (CSU)

### **N R 75 Selected Topics: Natural Resources Units 1-2**

*Prerequisites: None; exempt from assessment testing.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to offer instruction in one of the specialized areas of natural resources not already covered by the existing curricula.

### **N R 94V Work Experience: Natural Resources Units 1-8**

*Prerequisites: None.*

*Limitations on Enrollment: The student must enroll in a course that is directly related to the natural resources work experience. The student must enroll in a minimum of 7 units during the semester including work experience units. For summer session, the student must enroll in one related course in addition to work experience. The combined total number of units a student may take in internship, work experience, and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of work experience program objectives and an employer work experience agreement.*

*Advisories: GUID 30, 31, 32, 33.*

This course is designed for students employed in the area of natural resources. The course objectives are developed by the students in consultation with their supervisor. Students are engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college work experience instructor. To register, complete an application form available at the Applied Science and Technology Division office, Holt 140.

## NURSING

### **NURS 1 Introduction to Nursing Units 4.5**

*Prerequisites:* ANAT 2 or ANAT 1 and PHYSI 1, MICRO 2, FCS 6, ENG 1A.

*Corequisites:* NURS 3.

*Limitations on Enrollment:* Admission into the Associate Degree Nursing Program.

*Advisories:* None.

This course is designed to present the concepts and principles of nursing practice. Development and practical application of the concepts of wholism with emphasis upon the biological, psychological, sociological, cultural, and spiritual needs of the individual client as a member of the community and society is integrated throughout the course. The nursing process is introduced as a method to be used in the planning and evaluation of nursing care for adult and/or geriatric clients. The ethical and legal aspects of professional nursing, trends in nursing, and the basic pharmacological considerations inherent in providing nursing are discussed. The principles of patient teaching and the documentation of patient care are introduced. Clinical experiences focus upon the actual and potential problems of the adult with chronic and/or non-critical illness. The student learns to meet basic human needs of selected individuals in the Skills Laboratory, extended care, acute care, and community health settings. (CSU)

### **NURS 2 Introduction to Medical/Surgical Nursing Units 4.5**

*Prerequisites:* NURS 1 with a grade of 'C' or better and concurrent enrollment in NURS 3.

*Corequisites:* NURS 3.

*Limitations on Enrollment:* Admission into the Associate Degree Nursing Program.

*Advisories:* None.

This course is designed to introduce the concepts and principles of Medical-Surgical Nursing. The concepts of wholistic care are considered as the basis of providing nursing care to the adult in varying stages of the life cycle. Placement on the health-illness continuum is assessed in terms of cardiovascular, gastrointestinal, and pharmacological considerations. The role of the professional nurse in planning and providing nursing care by utilizing the nursing process is reinforced. Legal and ethical factors inherent in nursing care are introduced. Clinical experiences focus on the normal changes that occur during the aging process, actual and potential problems associated with chronic and/or non-critical illness, pain management, and oncology. The student learns to assess the health status of the individual and provide care to selected adults in acute, long-term, and community health care settings. (CSU)

### **NURS 3 Administration of Medication Units 3**

*Prerequisites:* ANAT 2 or ANAT 1 and PHYSI 1, MICRO 2, FCS 6, ENG 1A. and concurrent enrollment in NURS 1.

*Limitations on Enrollment:* Admission into the Associate Degree Nursing Program.

*Advisories:* None.

This course is designed to present guidelines for current medication administration practices for the individual throughout the health-illness continuum. The course utilizes the nursing process to present a wholistic approach to medication-related patient care and teaching through the adult years of the life cycle. Ethical and legal aspects of medication administration in the community and society are included. The role of the nurse in drug dosage calculation is emphasized. (CSU)

### **NURS 4 Beginning Medical/Surgical Nursing Units 5.5**

*Prerequisites:* NURS 2 and NURS 3 with a grade of "C" or better.

*Limitations on Enrollment:* Admission into the Associate Degree Nursing Program.

*Advisories:* None.

This course is designed to provide learning experiences directed toward restoration and maintenance of optimal health of the adult in the acute and non-traditional health care setting within a culturally diverse community. The concept of wholism, integrated into the nursing process, is utilized as a means to facilitate interventions in adults experiencing chronic and acute health problems. The theoretical content includes immunology and hematology, ethical-legal aspects of medication administration, and concepts pertinent to the neurological, genitourinary, respiratory, endocrine, and musculoskeletal systems. The expanded role of the nurse as a collaborative member of the health care team is emphasized. (CSU)

### **NURS 5 Mental Health Nursing Units 4**

*Prerequisites:* NURS 2 and 3 with a grade of "C" or better.

*Limitations on Enrollment:* Admission into the Associate Degree Nursing Program.

*Advisories:* None.

This course is designed to present mental health principles to assist the nursing student in developing an increased understanding of human behavior, therapeutic communication, anxiety, psychiatric disorders, psychopharmacology, chemical dependency, personality disorders, domestic violence, sexual assault, and mental status assessment. With emphasis on a wholistic, collaborative model, clinical experiences are offered in private, public and community psychiatric agencies where psychiatric care is provided to a culturally diverse population. (CSU)

### **NURS 6 Nursing the Childrearing Family Units 4**

*Prerequisites:* NURS 4 and NURS 5 with a grade of "C" or better.

*Limitations on Enrollment:* Admission into the Associate Degree Nursing Program.

*Advisories:* None.

This course is designed to utilize the theme of wholism and the nursing process in the study of well and ill children from the neonatal

to adolescent periods. Care of the childrearing family in health, acute and chronic illness, and in grief is discussed. The role of the pediatric nurse in acute and structured settings, principles of growth and development, and ethical-legal issues are integrated in the course content. (CSU)

**NURS 7 Intermediate Medical/Surgical Nursing Units 5.5**

*Prerequisites: NURS 4 and NURS 5 with a grade of "C" or better.*  
*Limitations on Enrollment: Admission into the Associate Degree Nursing Program.*  
*Advisories: None.*

This course is designed to introduce the student to the expanded role of emergency and critical care nursing. Theoretical and clinical approaches to nursing care of the severely compromised individual through the resuscitative, critical, and restorative phases of acute illness are presented. Analysis of the etiology and effect of biological, psychological, spiritual, and cultural influences of acute injury to the core organs of the neurological, cardiovascular, and respiratory systems is utilized in the priority and delivery of comprehensive nursing care. The collaborative role of the nurse in preventive care and maintenance of optimal wellness is discussed. (CSU)

**NURS 8 Nursing of the Childbearing Family Units 4**

*Prerequisites: NURS 6 and NURS 7 with a grade of "C" or better.*  
*Limitations on Enrollment: Admission into the Associate Degree Nursing Program.*  
*Advisories: None.*

This course is designed to focus on the integration of wholistic concepts and principles from social, behavioral, and biological sciences to prepare students to provide nursing care for childbearing families in acute and home/community settings. Application of the nursing process in theoretical and clinical situations is utilized to promote and maintain wellness for antepartal, intrapartal, postpartal, neonatal, and intraconceptual families. Emphasis is placed upon the role of the nurse as a health educator. Current ethical-legal and health care issues are integrated in the course content. (CSU)

**NURS 9 Advanced Medical/Surgical Nursing Units 5**

*Prerequisites: NURS 6, NURS 7 with a grade of "C" or better.*  
*Limitations on Enrollment: Admission to the program.*  
*Advisories: None.*

This course is designed to provide theoretical and clinical approaches in nursing care to individuals of varying ages with complex health care needs in an acute care and home/community environment. Concepts related to organization, patient care management, and leadership are included with the use of the nursing process. Emphasis is placed on patient care outcomes and professional accountability and responsibility. Professional issues, trends, and roles are also presented. (CSU)

**NURS 11 Selected Topics: Acute Nursing Care Units 3**

*Prerequisites: Nursing 25; exempt from assessment testing.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is designed to assist licensed nursing personnel to update themselves in the care of acutely ill patients. Topics include such areas as cardiovascular, renal, respiratory, neurological, orthopedic, burns, oncology, pediatrics, and geriatrics. The course may be repeated for credit each five years. (CSU)

**NURS 12 Mobile Intensive Care Nursing Units 5**

*Prerequisites: RN with valid license; 1 year of experience or currently working in an emergency room or critical care unit; current CPR or ACLS; successful completion of H S 34A; basic EKG interpretation.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide didactic instruction and field training in the performance and supervision of pre-hospital advanced emergency care. The course meets requirements recommended by the State of California for mobile intensive care nurses. (CSU)

**NURS 15 Critical Care Nursing Units 10**

*Prerequisites: NURS 25 or 38.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a critical care course designed to assist licensed nurses in acquiring current knowledge and skills necessary in the care of the critically ill. (CSU)

**NURS 50 Independent Study Units 6**

*Prerequisites: Enrolled in nursing program and staff approval; Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide selected students opportunity to further their knowledge and skills in specified areas. Theory and laboratory hours are arranged on an individual basis. (CSU)

## OCCUPATIONAL PRACTICE LABORATORY

**OCCUP 74 Occupational Practice Laboratory Units 1-3**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed for students desiring credit for their employment experience related to an occupational goal. Students work in offices, libraries, laboratories, shops, gymnasium, and for instructors. One unit of credit is earned for each 60 hours worked. Students must be enrolled in at least 7 units including OCCUP 74. A maximum of 3 units may be earned each semester for a total of not more than 6 units. To register, contact the work experience staff in the work experience office.

# ORNAMENTAL HORTICULTURE

## O H 10 Introduction to Ornamental Horticulture Units 2

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to introduce students to the ornamental horticulture industry with emphasis on career opportunities, curriculum choices, and skills needed for each discipline. Basic sciences, facility, and tool orientation are presented. The laboratory covers a variety of horticultural skills. (CSU)

## O H 15 Selected Topics: Ornamental Horticulture Units 1-2

*Prerequisites: None; exempt from assessment testing.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to offer instruction in one of the specialized areas of ornamental horticulture not already covered by existing curricula.. (CSU)

## O H 21A Identification of Fall Plants Units 3

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to introduce students to the approximately 250 ornamental plants used in the landscape of Central California. Included are cultural requirements, taxonomy, common pests and diseases, growth habits, and uses in the landscape. Drought tolerant and native plants are included. (CSU)

## O H 21B Identification of Spring Plants Units 3

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to introduce students to the approximately 250 ornamental plants used in the landscape of Central California. Included are cultural requirements, taxonomy, common pests and diseases, growth habits, and uses in the landscape. Drought tolerant and native plants are included. (UC, CSU)

## O H 21C Plant Materials: Trees Units 3

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to introduce students to the identification of the approximately 200 trees used in the landscape of Central California. Also included are cultural requirements, taxonomy, common pests and diseases, growth habits, geographic origins, and uses in the landscape. Drought tolerant and native plants are included. (CSU)

## O H 22 Plant Propagation Units 3

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an introduction to the principles and practices of nursery propagation by seeds, cuttings, separations, budding, grafting, layering, and tissue culture. Laboratory experiences incorporate the use of various commercial propagation methods. (CSU)

## O H 26 Turf Practices Units 3

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to introduce students to the maintenance and management of turf areas, including golf courses, athletic fields, public parks and residential lawns. Emphasis is placed on the principles of turfgrass culture that provide students with a sound basis for formulating decisions and methods of operation. (CSU)

## O H 29 House Plants and Interior Landscaping Units 3

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to introduce students to the interior landscape field and the fundamentals of house plant care including proper plant selection and identification, insect and disease detection, optimum lighting and temperatures, fertilizer and irrigation, repotting techniques, and correction of plant problems. (CSU)

## O H 30 Introduction to Floriculture Units 3

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to introduce students to the current production practices employed for selected floral crops. The curriculum includes varietal selection, growth requirements, timing, pest and disease control. (CSU)

## O H 31 Floral Arrangement Units 2

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an introduction to the fundamentals of theory, techniques and skills currently practiced in the floral industry. Included will be applied art principles, post-harvest care, handling practices, proper use of florist tools and materials in crafting basic designs. (CSU)

## O H 32 Garden Center Management Units 3

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to investigate the economics of operating, designing, organizing, and managing a retail garden center. The overall cost of being in business, location selection, layout, and demographic studies are covered. Personnel management, merchandising, advertising, pricing strategies, selling techniques, promotion, cooperative buying, and industry contributions are studied.

(CSU)

**O H 33 Advanced Floral Arrangement Units 2**

*Prerequisites: O H 31 with a grade of "C" or better.*

*Corequisites: None.*

*Limitation on Enrollment: None.*

*Advisories: None.*

This course is an introduction to principles, theory, and techniques of floral arrangement including asymmetrical triangle, vertical, 'T's, other design arrangements, and corsage work. Students develop increased levels of proficiency and speed needed for employment. (CSU)

**O H 35 Landscape Maintenance Units 3**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to enable students to learn the skills necessary to successfully maintain residential and commercial landscapes and structures. The curriculum includes training in fertilizing, irrigation repair, pest and disease control, plant and tree installation, pruning, soil amending and mulching, and tree staking. (CSU)

**O H 37 Landscape Construction Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide students with hands-on experience in planning and installing landscape construction projects. Students are exposed to the necessary tools and techniques and participate in the construction of various landscape projects such as cement patios, retaining walls, raised planters, mowstrips, fences, patio covers, decks, and masonry projects. (CSU)

**O H 38 Basic Landscape Drafting Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an introduction to basic drafting principles and techniques presently utilized by the landscape industry. Graphic communication through lettering, drafting, graphics and symbolic representation are emphasized. Students complete a set of construction drawings for a residential landscape. (CSU)

**O H 39 Landscape Contracting Units 3**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an introduction to the legal and financial aspects of landscape contracting. The course covers license law, bidding procedures, lien laws, personnel supervision, payroll reporting, personnel safety requirements, and bookkeeping methods. This course prepares students for the landscape contractor's license examination. (CSU)

**O H 40 Principles of Landscape Design Units 3**

*Prerequisites: Reading level II or concurrent enrollment in reading;*

*O H 38 with a grade of "C" or better.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to build on basic principles of landscape design including both hardscape and softscape. Students explore the elements of landscape design, including garden structures, pavements, and plants. Students complete construction drawings for

residential landscape. (CSU)

**O H 50H Special Studies: Ornamental Horticulture Units 1-2**

*Prerequisites: Reading level II or concurrent enrollment in reading; Completion of survey course with grade of "B" or better and presentation of a project acceptable to the instructor and division chairperson.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is open to students qualified to do advanced work in the field. The course includes research, directed reading, field work, or other advanced study, and the course may be repeated for a maximum of four units. (CSU)

**O H 62 Landscape Irrigation and Drainage Units 3**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to introduce students to all phases of residential and commercial landscape irrigation including designing, estimating, installing, maintaining, and trouble-shooting. Students are exposed to the components of both sprinkler and drip irrigation systems. This course also covers the components and installation of landscape drainage systems. (CSU)

**O H 66 Commercial Landscape Practices Units 2**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to give students a realistic experience installing a commercial landscape project. Emphasis is placed on job and equipment safety, methods of installation operation, and design considerations. Specific attention is given to sites with high visibility and heavy traffic flow. Compliance codes and regulations, as they apply to the industry, are included also. (CSU)

**O H 69V Internship: Ornamental Horticulture Units 1-8**

*Prerequisites: None.*

*Limitations on Enrollment: The student must enroll in a course that is directly related to the ornamental horticulture internship. The student must enroll in a minimum of 7 units during the semester including internship units. For summer sessions, the student must enroll in one related course in addition to internship. The combined total number of units a student may take in internship, work experience, and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of internship program objectives and an employer internship agreement.*

*Advisories: GUID 30, 31, 32, 33.*

This course is designed for students participating in an occupational internship in ornamental horticulture. Application of discipline-related skills and knowledge of Secretaries Commission on Achieving Necessary Skills (SCANS) competencies is emphasized. Each student is engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college internship instructor. (CSU)

**O H 70 Basic Landscaping of the Home Units 2**

*Prerequisites: Reading level II or concurrent enrollment in reading.*  
*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to introduce students to the selection and placement of trees, shrubs, and ground covers in residential settings, construction of patios, decks, walks, planters, mow strips, and sprinkler system are discussed.

**O H 71 Introduction to Plant Pests and Diseases Units 2**

*Prerequisites: None.*

*Limitation on Enrollment: None.*

*Advisories: None.*

This course is designed to introduce students to the common pests and diseases associated with ornamental plants and to present the basic principles of modern plant protection (chemical, biological, and cultural).

**O H 81 Applied Floral Arrangement Units 2**

*Prerequisites: None.*

*Limitation on Enrollment: None.*

*Advisories: None.*

This course is an introduction to theories, techniques and skills currently practiced in the floral industry. Included are topics in applied art principles, post-harvest care, handling practices, proper use of florist tools, and materials in crafting basic designs. Development of basic floral skills is the focus.

**O H 83 Advanced Applied Floral Arrangement Units 3**

*Prerequisites: O H 81 or O H 31 with a grade of "C" or better.*

*Limitation on Enrollment: None.*

*Advisories: None.*

This course is an introduction to advanced principles and techniques of floral arrangement, including new types and designs of arrangements and corsage work. Students develop increased levels of proficiency and speed needed for employment. Development of basic floral skills is the focus.

**O H 96V Work Experience: Ornamental Horticulture Units 1-8**

*Prerequisites: None.*

*Limitation on Enrollment: The student must enroll in a course that is directly related to the ornamental horticulture work experience. The student must enroll in a minimum of 7 units during the semester including work experience units. For summer session, the student must enroll in one related course in addition to work experience. The combined total number of units a student may take in internship, work experience, and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of work experience program objectives and an employer work experience agreement.*

*Advisories: GUID 30, 31, 32, 33.*

This course is designed for students employed in the area of ornamental horticulture. The course objectives are developed by the students in consultation with their supervisor. Students are engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college work experience instructor. To register, complete an application form available

at the Applied Science and Technology Division office, Holt 140.

**PHILOSOPHY****PHILO 6A Introduction to Philosophy Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a survey of philosophy. The concepts of humanity, wisdom, knowledge and truth are examined in detail. Problems of right and wrong, good and bad with reference to human behavior and social and political institutions are analyzed. (UC, CSU, CAN PHIL 2)

**PHILO 6B Introduction to Philosophy Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a problem approach to philosophy. The concepts of meaning, definition, knowledge, cause, determinism, and freedom are analyzed in depth. Emphasis is placed on improving the quality of the student's thinking and writing. (UC, CSU)

**PHILO 30 Introductory Logic Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a practical course in logical thinking. (UC, CSU, CAN PHIL 6)

**PHILO 40 Ethics Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an analysis of right and wrong human actions, of good and bad social and political institutions, and of the problems of moral responsibility and free will. Emphasis is on current problems such as abortion, birth control, divorce, nuclear disarmament, and capital punishment. (UC, CSU, CAN PHIL 4)

**PHILO 45 God and Man Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an attempt to analyze concepts of God, belief, existence, reality, immortality, the self, and faith. (UC, CSU)

**PHILO 50 Asian Philosophy Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an introduction to the philosophical tradition of Asia. Special emphasis is placed on the Buddhist, Hindu, Taoist, Confucian, and Shinto philosophies. (UC, CSU)

**PHILO 50H Special Studies: Philosophy Units 1-2**

*Prerequisites: Reading level II; completion of survey course with grade of "B" or better and presentation of a project acceptable to the instructor and division chairperson.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is open to students qualified to do advanced work in the field. The course may include research, directed reading, field work, or other advanced study, and the course may be repeated for a maximum of four units. (UC, CSU)

## PHOTOGRAPHY

### **PHOTO 1A Introduction to Photography Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an introductory course in photographic camera work and laboratory procedures. Basic camera theory, darkroom procedures, aesthetics, history, and concepts are presented in lecture and executed in laboratory periods. (UC, CSU, CAN ART 18)

### **PHOTO 1B Intermediate Photography Units 3**

*Prerequisites: PHOTO 1A.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a structured black and white course designed to offer intermediate technique for the small and/or medium format worker. Large format work is introduced in conjunction with intermediate work with exposure-development control. (UC, CSU)

### **PHOTO 1C Advanced Photography Units 3**

*Prerequisites: PHOTO 1B with a grade of "C" or better.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a rigorous work of the large format view camera through theory and practice of the Zone Systems exposure-development relationships. Negative and print control are emphasized for exceptional control in the medium. Advanced aesthetics, techniques, and concepts expand student awareness of the dynamics of photography. The history of large format concepts in artistic and utilitarian usage is explored. (CSU)

### **PHOTO 6A Beginning Color Units 3**

*Prerequisites: PHOTO 1A; reading level II or concurrent in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to give students necessary instruction in processing photographic color materials and achieving quality prints through the Ektacolor, Ektachrome, or Cibachrome methods. (CSU)

### **PHOTO 6B Advanced Color Units 3**

*Prerequisites: PHOTO 6A; Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to assist intermediate students to be in control of the negative-positive materials using the Ektacolor and Fuji color processes in producing quality and creative photographic color prints. Utilization and aesthetic assignments are presented. Densitometry and color analysis are explored. (CSU)

### **PHOTO 15 Selected Topics: Photography Units 1-2**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to offer instruction in one of the specialized areas of photography not already covered by existing curricula. (CSU)

### **PHOTO 34 Workshop Projects Units 2**

*Prerequisites: PHOTO 1B; reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an independent study in photography to meet individual needs. (CSU)

### **PHOTO 50H Special Studies: Photography Units 1-2**

*Prerequisites: PHOTO 1B and 4A or 6A or 12A with a grade of "B" or better or permission of instructor; reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is open to students who wish to pursue a research problem through individual laboratory work and associated studies. The proposed project must be acceptable to a member of the photography staff and approved by the division chairperson. The course may be repeated for a maximum of four units. (CSU)

### **PHOTO 75 Selected Topics: Photography Units 1-2**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to offer instruction in one of the specialized areas of photography not already covered by existing curricula.

## PHYSICAL EDUCATION & RECREATION

### **P E 1A Beginning Swimming Units 1-1.5**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a beginning course for non-swimmers. (UC, CSU)

### **P E 1B Intermediate Swimming Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading; PE 1A.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to emphasize the development of crawl, back, breast, and side strokes. (UC, CSU)

### **P E 1D Beginning Swim for Health Units 1.5-2**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to help the beginning swimmer conditioning to improve cardiovascular endurance through swimming and to teach sound individual conditioning techniques. Each student is pre-tested in various health and fitness components. (UC, CSU)

**PE 1E Intermediate Swim for Health Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading and PE 1D.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to help the intermediate swimmer improve cardiovascular endurance through swimming and to teach sound individual conditioning techniques. Each student is pre-tested in various health and fitness components. (UC, CSU)

**PE 1F Advanced Swim for Health Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading and PE 1E.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to help the advanced swimmer improve cardiovascular endurance through swimming and to teach sound individual conditioning techniques. Each student is pre-tested and post-tested in various health and fitness components. (UC, CSU)

**PE 2 Lifeguard Training Units 2**

*Prerequisites: Reading Level II or concurrent enrollment in reading and refer to the Catalog Statement for additional corequisites.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide individuals with knowledge and skills to save ones own life or the life of another in the event of a water emergency. The student must be at least 15 years old; swim 500 yards continuously using each of the following strokes for at least 50 yards each: crawl, breaststroke, elementary backstroke, sidestroke; surface diving to a minimum depth of 9 feet and bring a 10-pound diving brick to the surface; surface dive to a minimum depth of 5 feet and swim under the water for a minimum of 15 yards; tread water for one minute; possess before or during the course the American Red Cross Standard First Aid/ American Red Cross Community First Aid Certificate and either the American Red Cross or American Heart Association Adult Cardio-Pulmonary Resuscitation Certificate. The American Red Cross Certificate for lifeguard is awarded to those who successfully complete the course. This course may be repeated for credit once every three years. (UC, CSU)

**PE 4A Springboard Diving Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to introduce students to the fundamentals of springboard diving including the hurdle and required dives in the five diving categories on the one meter diving board. Students learn stretching and conditioning techniques to strengthen and enhance their abilities in springboard diving. (CSU)

**PE 4B Springboard Diving Units 1-1.5**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to allow students to practice the fundamentals of springboard diving including the hurdle and required optional dives in the five diving categories on the one and three meter diving boards. Students learn stretching and conditioning techniques to strengthen and enhance their abilities in springboard diving. (CSU)

**PE 4C Springboard Diving Units 1-1.5**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to allow students to practice the fundamentals of springboard diving, including the hurdle and required optional dives in the five diving categories on the one and three meter diving boards. Students learn stretching and conditioning techniques to strengthen and enhance their abilities in springboard diving. (CSU)

**PE 8 Self Defense Units 1.5-2**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an introduction to non-aggressive self defense. Incorporated into the course are techniques of Judo, Karate, Aikido, Wrestling, and situational escapes. The use of make-shift weapons is also covered. Lecture periods are devoted to the development of a psychological defense system to prevent attack. (UC, CSU)

**PE 9A Beginning Individual Conditioning Units 1.5-2**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to improve the individual's physical fitness level through the use of physical fitness testing, aerobic exercise, resistive exercise training, and flexibility activities. Included are lectures designed to enhance the student's life-long approach and understanding of exercise and its effect on the body. Each student is pre-tested and post-tested in various health and fitness components. (UC, CSU)

**PE 9B Intermediate Individual Conditioning Units 1-1.5**

*Prerequisites: PE 9A.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to take the information learned in beginning individual conditioning and to develop a life-long commitment to exercise. The course includes physical fitness testing, aerobic



exercise, resistive exercise training, and flexibility activities. More extensive lectures on cardiovascular health, nutrition, and elements of exercise enhance previous knowledge are included. Each student is pre-tested and post-tested in various health and fitness components. (UC, CSU)

**PE 9C Advanced Individual Conditioning Units 1-1.5**

*Prerequisites: PE 9B.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is designed to take the information learned in beginning individual conditioning and develop a life-long commitment to exercise. The course includes physical fitness testing, resistive exercise training, and flexibility activities. The overall experience culminates in students formulating an individualized program to meet their unique needs. Each student is pre-tested and post-tested in various health and fitness components. (UC, CSU)

**PE 9D Beginning Jazz Aerobics Units 1.5-2**

*Prerequisites: None.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is an introduction to a complete work-out done to music. The course includes stretching, body training, and cardiovascular work. The course content is based on a knowledge of training and conditioning techniques, heart disease and exercise, muscle physiology, and nutrition. Each student is pre-tested and post-tested in various health and fitness components. (UC, CSU)

**PE 9E Intermediate Jazz Aerobics Units 1-1.5**

*Prerequisites: PE 9D.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is a continuation of a complete work-out including stretching, body training, and cardiovascular work. Students develop life-long diet plans and learn to develop relaxation techniques to combat stress. Each student is pre-tested and post-tested in various health and fitness components. (UC, CSU)

**PE 9F Advanced Jazz Aerobics Units 1-1.5**

*Prerequisites: PE 9E.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is one that includes stretching, body training, and cardiovascular work. The course content is based on a knowledge of training and conditioning techniques, heart disease and exercise, muscle physiology, and nutrition. Students learn to apply these principles to other advanced fitness activities. Each student is pre-tested and post-tested in various health and fitness components. (UC, CSU)

**PE 9H Beginning Sports Conditioning Units 1.5-2**

*Prerequisites: Reading level II or concurrent enrollment in reading.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is designed to expose students to the various components of sport-related conditioning. Students develop a theoretical knowledge of these components and participate in activities that include jogging, running, plyometrics, as well as strength and flexibility training. This course is designed for the athlete or the student wishing to participate in a vigorous training program. (UC,

CSU)

**PE 9I Intermediate Sports Conditioning Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading; PE 9H.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is designed to take the various components of sport-related conditioning and expand upon them. Measurements of strength, endurance, and agility are included. Special emphasis is placed upon the learning of the concepts and theories of a good sports conditioning program. (UC, CSU)

**PE 9J Advanced Sports Conditioning Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading; PE 9I.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is designed to take the information learned in the previous two courses and develop a life-long commitment to exercise and participation in competitive or recreational sport activities. The overall experience culminates with students being able to formulate an individual conditioning program which enhances their ability to participate in a competitive or recreational sport. (UC, CSU)

**PE 9K Beginning Power Aerobics Units 1.5-2**

*Prerequisites: None.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is designed to develop cardiovascular fitness, strength training, and flexibility through the use of aerobic exercise and weight training. The course incorporates low and high impact aerobics and body toning through the use of weights and diet development. The course focuses on the physical development techniques for both men and women. All exercises are performed to music. Each student is pre-tested and post-tested in various health and fitness components. (UC, CSU)

**PE 9L Intermediate Power Aerobics Units 1-1.5**

*Prerequisites: PE 9K.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is designed to develop cardiovascular fitness, strength training, and flexibility through the use of aerobic exercise and weight training. The course incorporates low and high impact aerobics and body toning through the use of weights and diet development. The course focuses on the physical development techniques for both men and women. All exercises are performed to music. Each student is pre-tested and post-tested in various health and fitness components. (UC, CSU)

**PE 9M Advanced Power Aerobics Units 1-1.5**

*Prerequisites: PE 9L.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is designed to develop cardiovascular fitness, strength training, and flexibility through the use of aerobic exercise and weight training. The course incorporates low and high impact aerobics and body toning through the use of weights and diet development. The course focuses on the physical development

techniques for both men and women. All exercises are performed to music. Each student is pre-tested and post-tested in various health and fitness components. (UC, CSU)

**PE 14A Beginning Weight Training Units 2-2.5**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to give students experience in the six basic levels of lifts. Students are exposed to an individual weight training program. Prevention and rehabilitation of injuries are stressed. Each student is pre-tested and post-tested in various health and fitness components. (UC, CSU)

**PE 14B Intermediate Weight Training Units 1.5-2**

*Prerequisites: PE 14A.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to give students experience in intermediate level of lifts. Students develop an individual weight training program. Prevention and rehabilitation of injuries is stressed. Each student is pre-tested and post-tested in various health and fitness components. (UC, CSU)

**PE 14C Advanced Weight Training Units 1.5-2**

*Prerequisites: PE 14B.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to give students experience in the advanced level of lifts. Students complete an individual weight training program. Prevention and rehabilitation of injuries are stressed. Each student is pre-tested and post-tested in various health and fitness components. (UC, CSU)

**PE 15 Selected Topics: Physical Education Units 1-2**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to offer instruction in one of the specialized areas of physical education not already covered by existing curricula. (UC, CSU)

**PE 16A Beginning Modern Dance Units 1-1.5**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to condition students and to study the use of the body in rhythmic motion in some of the less complicated dances. Fundamental techniques are emphasized. Lectures and discussions are included. (UC, CSU)

**PE 16B Intermediate Modern Dance Units 1-1.5**

*Prerequisites: PE 16A.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is the study of intermediate dance technique and patterns. Creative dances are practiced with the express purpose of establishing individual and group dances for public performances. Lectures and discussions are included. (UC, CSU)

**PE 16C Advanced Modern Dance Units 1-1.5**

*Prerequisites: Dance 16C.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is the study of advanced techniques, styles, and rhythms used in creative dances which are practiced with the express purposes of establishing solo, individual, and group dances for public performances. Lectures and discussions are included. (UC, CSU)

**PE 21A Beginning Fencing Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to develop basic skills and techniques of fencing with the three combative weapons of foil, epee, and sabre. The course covers developmental exercise along with skills and techniques utilized in formal competition. Drama and dance students find it valuable for mental and body discipline on the stage. (UC, CSU)

**PE 21B Intermediate Fencing Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to develop the intermediate skills and techniques of fencing with the three combative weapons of foil, epee, and sabre. The course covers developmental exercises with skills and techniques in formal competition. Drama and dance students find it valuable for mental and body discipline on the stage. (UC, CSU)

**PE 21C Advanced Fencing Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading; PE 21B.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to develop the advanced skills and techniques of fencing with the three combative weapons of foil, epee, and sabre. The course covers developmental exercises with skills and techniques in formal competition. Drama and dance students find it valuable for mental and body discipline on the stage. (UC, CSU)

**PE 22A Beginning Tennis Units 1-1.5**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an introduction to the rules, etiquette, fundamentals, and strategy of tennis. Physical conditioning, agility and the carry-over value of the activity are stressed. (UC, CSU)

**PE 22B Intermediate Tennis Units 1-1.5**

*Prerequisites: PE 22A.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a continuation of learning the rules, etiquette, fundamentals, and strategy of tennis. Physical conditioning, agility, and the carry-over value of the activity are stressed. (UC, CSU)

**PE 22C Advanced Tennis Units 1-1.5**

*Prerequisites: PE 22B.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a continuation of learning the rules, etiquette, fundamentals, and strategy of tennis. Physical conditioning, agility, and

the carry-over value of the activity are stressed. Match play organization and play is stressed. (UC, CSU)

**PE 23A Beginning Racquetball Units 1-1.5**

*Prerequisites: None.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is an introduction to the rules, etiquette, fundamentals, and strategy of racquetball. Physical conditioning, ability, and the carry-over value of the activity are stressed. (UC, CSU)

**PE 23B Intermediate Racquetball Units 1-1.5**

*Prerequisites: PE 23A.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is a review of the rules, etiquette, fundamentals, and strategy of racquetball. Physical conditioning, ability, and the carry-over value of the activity are stressed. (UC, CSU)

**PE 23C Advanced Racquetball Units 1-1.5**

*Prerequisites: PE 23B.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is a review of the rules, etiquette, fundamentals, and strategy of racquetball. Tournament play is emphasized. (UC, CSU)

**PE 24A Beginning Power Volleyball Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is an introduction to the rules, fundamentals, and strategy of power volleyball. Carry-over value of the activity is stressed. (UC, CSU)

**PE 24B Intermediate Power Volleyball Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading; PE 24A.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is an extension of beginning volleyball. The basic fundamentals of skills of the serve, spike, forearm pass, and overhand set are reviewed. Appropriate defensive skills are introduced, the block and the dig. These skills allow the participant a higher level of competition. (UC, CSU)

**PE 24C Advanced Power Volleyball Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading; PE 24B.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is a review of the rules, fundamentals, and strategy of power volleyball. Physical conditioning, ability, and the carry-over value of the activity are stressed. Game play is emphasized. (UC, CSU)

**PE 25A Beginning Basketball Units 1-1.5**

*Prerequisites: None.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is designed to provide students the fundamentals of basketball and to develop an understanding of the basic game. (UC, CSU)

**PE 25B Intermediate Basketball Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading; PE 25A.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is designed to provide students with review of the fundamentals of basketball and basic strategy. Emphasis is placed on team play. (UC, CSU)

**PE 25C Advanced Basketball Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading; PE 25B.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is designed to provide students with the review of the fundamentals of basketball and basic strategies. Students apply the skills learned to develop a philosophy of basketball. (UC, CSU)

**PE 26A Beginning Soccer Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is designed to provide fundamental skills and techniques of soccer to the beginner. Dribbling, passing, heading, defensive skill, goal tending, and strategy are stressed. (UC, CSU)

**PE 26B Intermediate Soccer Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading; PE 26A.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is designed to give the intermediate student more practice, team play, and individual skill techniques. The emphasis is on team work. (UC, CSU)

**PE 26C Advanced Soccer Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading; PE 26B.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is for advanced soccer students. The emphasis is on tactics, team play, strategy, and individual position play. (UC, CSU)

**PE 27B Beginning Baseball Units 1-2**

*Prerequisites: Reading level II or concurrent enrollment in reading.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is designed to develop skills and techniques used in the sport of baseball. Emphasis is placed on the individual needs of students. (UC, CSU)

**PE 27C Advanced Baseball Units 1-2**

*Prerequisites: Reading level II or concurrent enrollment in reading.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is designed to develop and enhance the fundamental skills acquired in the elementary course. More detail is involved in

the approach to each individual's skill levels. (UC, CSU)

**PE 28E Beginning Softball Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed for students to improve fundamental softball skills and to educate students of current and new rules pertaining to the game of softball. Students participate in active learning with experience being given in offensive and defensive strategies including game and tournament play. (UC, CSU)

**PE 28F Intermediate Softball Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading; PE 28E.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed for students to enhance the fundamental skills required in the beginning course. More emphasis is placed on proper techniques and execution of acquired skills. Team strategies are emphasized. (UC, CSU)

**PE 28G Advanced Softball Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading; qualified performer.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a course designed for students with advanced softball skills. Emphasis is placed on conditioning, rule interpretation, and individual skill improvement. (UC, CSU)

**PE 29A Beginning Touch Football Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an introduction to the rules, fundamentals, and strategy of touch football. Physical conditioning, agility, and the carry-over value of the activity are stressed. (UC, CSU)

**PE 29B Intermediate Touch Football Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading and PE 29A.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a review of the rules, fundamentals, and strategy of touch football. Physical conditioning, agility, and the carry-over value of the activity are stressed. (UC, CSU)

**PE 29C Advanced Touch Football Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading and PE 29B.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a review of the rules, fundamentals, and strategy of touch football. Physical conditioning, agility, and the carry-over value of the activity are stressed. Game play is stressed. (UC, CSU)

**PE 31A Beginning Bowling Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to create an interest in and a carry over value for the game of bowling. (UC, CSU)

**PE 31B Intermediate Bowling Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to review the basic skills of bowling and to learn the intermediate skills of the game. (UC, CSU)

**PE 31C Advanced Bowling Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to review the basic skills of bowling. Emphasis is on tournament and league play. (UC, CSU)

**PE 32A Beginning Golf Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to emphasize the fundamentals of grip, stance, and swing. Stress is placed upon putting. Rules and etiquette are presented. Participation on the golf course is encouraged. (UC, CSU)

**PE 32B Intermediate Golf Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to emphasize the fundamentals of grip, stance, and swing. Stress is placed upon chipping and driving. Rules and etiquette are reviewed. Participation on the golf course is encouraged. (UC, CSU)

**PE 32C Advanced Golf Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to emphasize play on the golf course. Fundamentals, rules, and etiquette are reviewed. (UC, CSU)

**PE 38N Intramural Tennis: Singles Units 0.5**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is offered for tennis singles in school-wide competition. (UC, CSU)

**PE 38O Intramural Tennis: Doubles Units 0.5**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an organized school-wide competition in tennis doubles. (UC, CSU)

**PE 38T Intramural Co-Ed Volleyball Units 0.5**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an organized school-wide competition in co-ed volleyball. (UC, CSU)

**PE 38Y Intramural Badminton Units 0.5**

*Prerequisites: Reading level II or concurrent enrollment in reading.  
 Limitations on Enrollment: None.  
 Advisories: None.*

This course is an introduction to the rules, etiquette, fundamentals, and strategy of badminton. Competitive play is stressed. (UC, CSU)

**P E 39E Adapted Swimming Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading; physician authorization.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed for the physically limited student. Students work on developing their own individual programs in the swimming pool. Physical conditioning, awareness of the body's capabilities, agility, and life-long activity are stressed. (UC, CSU)

**P E 39F Adapted Conditioning Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading; physician authorization.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed for the physically limited. Students work on individual programs. Physical conditioning, awareness of the body's capabilities, agility, and life-long activity are stressed. (UC, CSU)

**P E 39I Adapted Parcourse Units 1-1.5**

*Prerequisites: Reading level II or concurrent enrollment in reading; physician authorization.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed for the physically limited. Students work on individual programs. Physical conditioning, awareness of the body's capabilities, agility, and life-long activity are stressed. (UC, CSU)

**P E 42J Theory of Track and Field Units 2**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to meet the needs of students in the community by preparing students to teach and coach track and field with a practical and effective approach. Emphasis is given to the most recent trends in training technique for each of the track and field events. (UC, CSU)

**P E 42K Theory of Baseball Offense Units 2**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to give students a practical, effective, and up-to-date approach in teaching and coaching the offensive skills of baseball. Particular attention is paid to hitting technique, hitting drills, correction of faults, mental approach, bunting, baserunning, and offensive strategy and philosophy. (UC, CSU)

**P E 42L Theory of Baseball Defense Units 2**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to give students a practical, effective, and up-to-date approach in teaching and coaching the defensive skills of baseball. Particular attention is paid to defensive technique at each position, individual defensive drills, team defensive drills, team defensive strategy, pitching, and catching. (UC, CSU)

**P E 42M Beginning Theory of Offensive Football Units 2**

*Prerequisites: Reading level II or concurrent enrollment in reading; physician authorization.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to teach elementary offensive football. Offensive overviews, establishing formation concepts, areas of attack dual system, backfield actions, cadence, line symbols and term line stance, back stance, types of blocks, recognition of defenses, and offensive kicking game are covered. Kick off return, point after touchdown, field goal, and the running game are stressed. (UC, CSU)

**P E 42N Advanced Theory of Offensive Football Units 2**

*Prerequisites: Reading level II or concurrent enrollment in reading; PE 42M.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to help students perform coaching and teaching assignments at lower levels from Pop Warner to high school football. Students learn to establish a football system of offense. (UC, CSU)

**P E 42O Beginning Theory of Defensive Football Units 2**

*Prerequisites: Reading level II or concurrent enrollment in reading; physical authorization.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an introduction to the philosophy, technology, and strategy of defensive football played at the college level. (UC, CSU)

**P E 42P Advanced Theory of Defensive Football Units 2**

*Prerequisites: Reading level II or concurrent enrollment in reading; PE 42O.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a review of the philosophy, terminology, and strategy of defensive football played at the college level. (UC, CSU)

**P E 42Q Beginning Coaching of Offensive Football Units 2**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to teach the coaching and demonstration of offensive techniques. Activities are designed for those who will coach the lower levels through Pop Warner and high school football. The fundamentals of the elementary level of running, throwing, catching, and blocking are stressed. [UC, CSU]

**P E 42R Intermediate Coaching of Units 2**

**Offensive Football**

*Prerequisites: Reading level II or concurrent enrollment in reading; PE 42Q.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to teach the coaching and demonstration of intermediate offensive techniques. Activities are designed for those who will coach the lower levels through Pop Warner and high school football. The fundamentals of the intermediate level of running, throwing, catching, and blocking are stressed. (UC, CSU)

**P E 42T Beginning Coaching of Defensive Football Units 2**

*Prerequisites: Reading level II or concurrent enrollment in reading. Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to teach the coaching and demonstration of defensive techniques. Activities are designed for those who will coach the lower levels through Pop Warner and high school football. The fundamentals of the intermediate level of running, throwing, catching, and tackling are stressed. (UC, CSU)

**P E 42U Intermediate Coaching of Defensive Football Units 2**

*Prerequisites: Reading level II or concurrent enrollment in reading; PE 42T.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to teach the coaching and demonstration of intermediate defensive techniques. Activities are designed for those who will coach the lower levels through Pop Warner and high school football. The fundamentals of the intermediate level of running, throwing, catching, and tackling are stressed. (UC, CSU)

**P E 42V Theory and Application of Weight Training Units 2**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to introduce students to past, present, and future trends in strength training and conditioning. Students learn how to set up, design, and implement a complete strength training and conditioning program for various populations. (CSU)

**P E 45 Special Projects: Physical Education Units 1-2**

*Prerequisites: Reading level II or concurrent enrollment in reading; completion of survey course with grade of "B" or better and presentation of a project acceptable to the instructor and division chairperson.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is open to all students qualified to do advanced work in the field. The course may include research, directed reading, field work, or other advanced study, and the course may be repeated for a maximum of four units. (UC, CSU)

**P E 46 Recreational Leadership Units 3**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an introduction to the field of recreation as a profession. Students are involved in leadership roles. (UC, CSU)

**P E 49 Psychology of Sports Units 3**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an introduction to the professional field of sport psychology. Classroom experiences are designed to acquaint students with individual skills and coaching techniques necessary in the area of sport psychology. (CSU)

**P E 80 Selected Topics: Physical Education Units 1-2**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to offer instruction in one of the specialized areas of physical education not already covered by existing curricula.

## PHYSICAL SCIENCE

**PHSCI 1 Matter and Energy Units 3**

*Prerequisites: MATH 80 or MATH 83A and MATH 83B or concurrent enrollment in MATH 80, MATH 83A or MATH 82.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an introduction to the physical sciences for students with a limited science background. Topics include astronomy, physics, chemistry, meteorology, and geology. Demonstrations and student involvement are stressed. (UC, CSU)

## PHYSICS

**PHYSC 2A General Physics Units 4**

*Prerequisites: MATH 31 with a grade of "C" or better.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to include geometric and physical optics with emphasis on the physics of optical instruments and thermodynamics with special attention to energy conservation and alternative energy sources. Alternative energy sources in particular, are considered in detail. The two general physics courses together parallel University of California's courses PHYSC 6A, PHYSC 6B, and PHYSC 6C. (UC, CSU, CAN PHYS 2, CAN PHYSC SEQ A with both PHYSC 2A and 2B)

**PHYSC 2B General Physics Units 4**

*Prerequisites: PHYSC 2A with a grade of "C" or better.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is divided into two parts, mechanics, electricity and magnetism. Mechanics includes the study of motion, rigid body mechanics, and simple harmonic motion. Electricity and magnetism covers direct current circuit theory, the use of the oscilloscope, frequency dependent analysis, and resonant circuits. (UC, CSU, CAN PHYS 4, CAN PHYSC SEQ A with both PHYSC 2A and 2B)

**PHYSC 4A Principles of Physics: Mechanics Units 4**

*Prerequisites: MATH 2 or concurrent enrollment in MATH 2 or equivalent.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an advanced course in the analysis of systems based upon concepts of kinematics and dynamics. The course includes linear and two dimensional motion, Newton's Laws, conservation laws of energy and momentum, rotational motion, and harmonic motion. The course is designed for engineering and physics majors. (UC, CSU, CAN PHYS 8)

**PHYSC 4B Principles of Physics: Waves, Sound, and Thermodynamics Units 4**

*Prerequisites: Completion of MATH 2 and PHYSC 4A with grades of "C" or better in each.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a continuation of principals of physics with further analysis of harmonic motion extended to wave phenomenon as exhibited by sound, light, and particles. Some atomic quantum theory is covered. Heat transfer and the first and second law of thermodynamics, as applied to heat engines, are covered also. (UC, CSU)

**PHYSC 4C Principles of Physics: Electricity and Magnetism Units 4**

*Prerequisites: Completion of or concurrent enrollment in MATH 3; PHYSC 4A and PHYSC 4B with a grade of "C" or better.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to cover topics in static electricity, Coulomb's Law, electric fields, and potential. Circuit theory is not emphasized. Laboratory topics introduce use of measuring instruments for the various circuit parameters. The electron beam tube and oscilloscope are examined as well as amplification by a triode and transistor. Magnetism includes the laws of Ampere, Faraday and Maxwell. A. C. circuits elements and their response to variable frequency signals are studied. (UC, CSU, CAN PHYS 12)

**PHYSC 10 Introduction to Physics Units 4**

*Prerequisites: MATH 80 or MATH 83A and 83B with a grade of "C" or better.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to introduce the fundamentals of physics to students with no previous background in the subject. The course content surveys selected topics in areas of mechanics, heat, optics, electricity, magnetism, and nuclear physics. It is not recommended for science and transfer engineering majors. Practical applications through laboratory work involving extensive instrumentation and measuring techniques is emphasized. (UC, CSU)

**PHYSC 50H Special Studies: Physics Units 1-2**

*Prerequisites: Reading level II and completion of survey course with a grade of "B" or better and presentation of a project acceptable to the instructor and division chairperson.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is open to all students qualified to do advanced work in the field. A course project is assigned which includes research, field work, or other advanced study, and the course may be repeated for a maximum of four units. (UC, CSU)

## PHYSIOLOGY

**PHYSI 1 Human Physiology Units 5**

*Prerequisites: ANAT 1, or ANAT 2, or BIOL 1, or BIOL 11 with a grade of "C" or better; and CHEM 3A or CHEM 1A with a grade of "C" or better.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a survey of the major facts and theories in the field of human physiology. Laboratory experiments are used to demonstrate fundamental and applied principles of cellular and systematic physiology. The design of experiments used in physiological research is emphasized using student projects. (UC, CSU, CAN BIOL 12)

## PLANT SCIENCE

**PLANT 10 Principles of Plant Science Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course in basic biological science covers fundamental botany and plant ecology. Plant genetics, structure, function, and identification are stressed. (UC, CSU, CAN AG 8)

**PLANT 10L Principles of Plant Science Laboratory Units 1**

*Prerequisites: Reading level II or concurrent enrollment in reading; PLANT 10, or concurrent enrollment in PLANT 10.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to use experiments and observations related to the principles of plant science. Students learn through numerous

hands-on experiences. (CSU)

**PLANT 12 Economic Entomology Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to cover local insects and mites of economic importance to agriculture. Their morphology, identification, life cycles, host and habitat relationships, and control methods are emphasized. Students are required to make an insect collection. (UC, CSU)

**PLANT 14 Soil Science Units 4**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to cover physical, chemical, and biological properties of soils as influenced by climate, parent material topography, and time. Field trips are included to observe specific soil formations. (UC, CSU, CAN AG 14)

**PLANT 36A Deciduous Fruit and Grape Production Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to study almonds, apricots, cherries, peaches, walnuts, wine grapes, and table grapes. Fundamentals of cultural practices including training, pruning, propagation, and rootstocks will be stressed. Use of the Delta College orchard and vineyard is emphasized. One all-day field trip required. (CSU)

**PLANT 50H Special Studies: Plant Science Units 1-2**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is offered to any student who is qualified to do advanced work and wishes to pursue a problem through reading or other advanced study, if his proposed project is acceptable and approved by instructor and the division chairperson. May be repeated for a maximum of four units. (UC, CSU)

**PLANT 74A Herbicide Mode of Action Units 1**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a study of herbicide entry into a plant and its subsequent action. Chemical actions, including factors affecting efficiency and speed of action are covered. Units earned in this course do not count toward the associate degree.

**PLANT 75 Selected Topics: Plant Science Units 1-2**

*Prerequisites: None; exempt from assessment testing.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to offer instruction in one of the specialized areas of plant science not already covered by existing curricula.

**PLANT 96V Work Experience: Plant Science Units 1-8**

*Prerequisites: None.*

*Limitations on Enrollment: The student must enroll in a course that is directly related to the plant science work experience. The student must enroll in a minimum of 7 units during the semester including work experience units. For summer session, the student must enroll in one related course in addition to work experience. The combined total number of units a student may take in internship, work experience, and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of work experience program objectives and an employer work experience agreement.*

*Advisories: GUID 30, 31, 32, 33.*

This course is designed for students employed in the area of plant science. The course objectives are developed by the students in consultation with their supervisor. Students are engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college work experience instructor. To register, complete an application form available at the Applied Science and Technology Division office, Holt 140.

## POLITICAL SCIENCE

**POLSC 1 American Government and Institutions Units 3**

*Prerequisites: Reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an introduction to the fundamentals of government and the political processes at the national, state, and local levels. Included are studies of basic issues confronted by the American people and their governing institutions. The course fulfills the Social Science (group A) requirements for the AA degree and applies toward completion of the requirement in U.S. History and California state and local government. (UC, CSU, CAN GOVT 2)

**POLSC 5 International Relations Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to study the United States in its role as a world power. Emphasis is on trouble spots and major challenges presently confronting the United States. Most of the material presented in assigned reading and in classroom presentations focuses on present-day issues. (UC, CSU)

**POLSC 10 Introduction to Political Science Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an introduction to the field of political science. The course surveys the scope and methods of the discipline, explores contemporary political theory and ideology, and compares varying types of political systems. (UC, CSU)

**POLSC 15 Selected Topics: Political Science Units 0.5-2**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to offer instruction in one of the specialized areas of political science not already covered by the existing curricula. (UC, CSU)

**POLSC 20 California State and Local Units 1**



**Government**

*Prerequisites: Reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an introduction to the fundamentals of California state and local government and the political processes. Included are studies of basic issues confronted by California state, county, city, and regional governments. (CSU)

**POLSC 50H Special Studies Units 1-2**

*Prerequisites: Reading level II; completion of survey course with grade of "B" or better and presentation of a project acceptable to the instructor and division chairperson.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is open to students qualified to do advanced work in the field. The course may include research, directed reading, field work, or other advanced study, and the course may be repeated for a maximum of four units. (UC, CSU)

**POLSC 51H Government Internship Units 3-4**

*Prerequisites: Completion of one of the following courses with a grade of "B" or better: POLSC 1, POLSC 4, BUS 18A or BUS 18B, and BUS 35A; reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to place students in local government departments or agencies where they will engage in specific research projects at a policy or administrative level. They work for 9-12 hours per week (student units will be determined at a rate of one unit for three hours in internship per week). May be repeated for credit three times. (UC, CSU)

**PRINT TECHNOLOGY**

**PRINT 50H Special Studies: Print Technology Units 1-2**

*Prerequisites: Reading level II or concurrent enrollment in reading; completion of survey course with grade of "B" or better and presentation of a project acceptable to the instructor and division chairperson.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is open to all students qualified to do advanced work in the field. The course includes research, directed reading, field work, or other advanced study, and the course may be repeated for a maximum of four units. (CSU)

**PRINT 51A Introduction to Graphic Communications Units 5**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to prepare students to enter the graphic communication industry giving technical information and developing skills in executing all basic printing steps required to produce a job. Steps include customer relations, layout and design, paste-up, typesetting, camera, stripping, plate making, offset presswork, and finishing operations. Strong emphasis is placed on work ethics, reading, and mathematical skills. (CSU)

**PRINT 51B Beginning Graphic Communications Units 5**

*Prerequisites: PRINT 51A.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to put into effect skills learned in introduction to graphic communications of advanced technical information and improving skill in applying basic printing procedures. (CSU)

**PRINT 60 Introduction to Graphic Production Units 5**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed for entry level exploration and covers fundamentals of management, creative services, electronic publishing, paste-up, pre-press, and press finishing. The course utilizes a hands-on and learn-by-doing strategy by producing the college newspaper "Impact" (Macintosh environment). (CSU)

**PRINT 61 Creative Services Units 5**

*Prerequisites: Reading level II or concurrent enrollment in reading; PRINT 60.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to cover graphic design, a system approach to production, and the preparation of single and multi-color mechanics. The course uses both the traditional and electronic composition processes (Macintosh environment). (CSU)

**PRINT 62 Pre-Press Units 5**

*Prerequisites: Reading level II or concurrent enrollment in reading; PRINT 60.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to train students to enter printing industry as pre-press specialists. Process camera, image assembly, color separation systems, and plate-making procedures are presented and performed by both electronic and traditional processes using the Macintosh platform. (CSU)

**PRINT 63 Press and Finishing Units 5**

*Prerequisites: Reading level II or concurrent enrollment in reading; PRINT 60.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an introduction to the use of sheet fed offset presses. Students investigate press systems and they learn to control press variables, operate computerized press controls, use densitometers, and use quality control procedures. Students learn production of

spot and process color, reprographics, bindery, and finishing procedures. (CSU)

**PRINT 69V Internship: Print Technology Units 1-8**

*Prerequisites: None.*

*Limitations on Enrollment: The students must enroll in a course that is directly related to the print technology internship. The student must enroll in a minimum of 7 units during the semester including internship units. For summer session, the student must enroll in one related course in addition to internship. The combined total number of units a student may take in internship, work experience, and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of internship program objectives and an employer internship agreement.*

*Advisories: GUID 30, 31, 32, 33.*

This course is designed for students participating in an occupational internship in print technology. Application of discipline-related skills and knowledge of the Secretaries' Commission on Achieving Necessary Skills (SCANS) competencies is emphasized. Each student is engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college internship instructor. To register, complete an application form available at the Applied Science and Technology Division office, Holt 140. (CSU)

**PRINT 75 Selected Topics: Units 1-2  
Printing Technology**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to offer instruction in one of the specialized areas of printing technology not already covered by existing curricula.

**PRINT 82A Metropolitan Newspaper Units 5  
Production**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide an opportunity for non-printing majors to learn printing procedures in a newspaper setting. The course is designed to give printing students basic exposure to journalism, photojournalism, advertising, and decision-making procedures that are present in the editorial part of a newspaper. Students use the college newspaper "IMPACT" as a hands-on learning experience.

**PRINT 82B Advanced Metropolitan Units 5  
Newspaper Production**

*Prerequisites: Reading level II or concurrent enrollment in reading; PRINT 82A.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide advanced training in journalism,

photojournalism, advertising, color, printing production, and decision making procedures that are present on the college newspaper "IMPACT" for both journalism and graphic communication students.

**PRINT 87A Printing Specialization Units 7**

*Prerequisites: PRINT 80C.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to assist advanced students in gaining a greater knowledge of a specialized area of the printing trade. The work covered is developed between the student and the instructor at the beginning of the course.

**PRINT 87B Printing Specialization Units 5**

*Prerequisites: PRINT 51B.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to assist advanced students in gaining a greater knowledge of a specialized area of the printing trade. The work covered is developed between the student and the instructor at the beginning of the course.

## PSYCHIATRIC TECHNOLOGY

**P T 80 Foundations of Nursing Units 8.5**

*Prerequisites: ANAT 1 or ANAT 2 or BIOL 11; H S 36; HS/FCS 19; PSYCH 1. A grade of "C" or better in each prerequisite course with a minimum GPA of 2.5 from prerequisite courses is required.*

*Limitations on Enrollment: Admission to the Psychiatric Technician Program.*

*Advisories: None.*

This course is designed to introduce students to the fundamental issues and trends in nursing, focusing on the collaborative roles of the Registered Nurse, Licensed Vocational Nurse, Psychiatric Technician and the Certified Nurse Assistant. Included in the content are the basic concepts of anatomy and physiology, the mechanisms of disease, and the sciences of nutrition and pharmacology. Wholism is introduced as the theoretical framework used by students in identification of patient needs. The clinical component of the course focuses on care of the geriatric client.

**P T 81 Introduction to Medical-Surgical Units 8.5  
Nursing**

*Prerequisites: P T 80 with a grade of "C" or better.*

*Limitations on Enrollment: Admission to the Psychiatric Technician Program.*

*Advisories: None.*

This course is designed to introduce students to the nursing care of patients with common medical-surgical disorders of the cardiovascular, respiratory, and endocrine systems, and that of the eye and ear. The clinical focus of this course is the nursing care of adult patients with an uncomplicated course of treatment utilizing the concept of wholism. Application of principles of asepsis to pre-operative and post-operative patient management is discussed. (CSU)

**P T 82 Psychiatric Technician Nursing Units 8**

*Prerequisites: P T 81 with a grade of "C" or better.*

*Limitations on Enrollment: Admission to the Psychiatric Technician Program.*

*Advisories: None.*

This course is designed to prepare students to provide care to

mentally ill clients in acute and chronic psychiatric settings. Emphasis is placed on current trends, legislation, stress adaptation, communication, diagnostic criteria, therapeutic techniques, cultural sensitivity, and the principles of wholism.

**PT 83 Advanced Psychiatric Technician Nursing Units 4.5**

*Prerequisites:* P T 82 with a grade of "C" or better.  
*Limitations on Enrollment:* Admission to the Psychiatric Technician Program.  
*Advisories:* None.  
 This course is designed to present mental health concepts of forensics, disorders of infancy, childhood, and adolescence, impulse control, eating disorders, substance abuse, personality disorders, violence, and sexual dysfunction. Emphasis is placed on treatment, prevention, and community resources.

**PT 84 Developmental Disabilities Nursing Units 6**

*Prerequisites:* P T 83 with a grade of "C" or better.  
*Limitations on Enrollment:* Admission to the Psychiatric Technician Program.  
*Advisories:* None.  
 This course is designed to prepare the Psychiatric Technician student to provide wholistic care to the developmentally disabled client. Emphasis is placed on diagnostic criteria, ethical issues, learning theories, language, behavior, and behavior modification. The student learns and practices basic leadership and supervisory techniques in the last week of this course.

**PT 85 Advanced Developmental Disabilities Nursing Units 5.5**

*Prerequisites:* P T 84 with a grade of "C" or better.  
*Limitations on Enrollment:* Admission to the Psychiatric Technician Program.  
*Advisories:* None.  
 This course is designed to broaden students' understanding and knowledge of developmental disabilities. The focus is on specific physical and medical problems of the developmentally disabled. Developmental syndromes, causes, characteristics, prevention, nursing care, interventions and treatment, including pharmacology, are included.

## PSYCHOLOGY

**PSYCH 1 Introduction to Psychology Units 3**

*Prerequisites:* Reading level II.  
*Limitations on Enrollment:* None.  
*Advisories:* None.  
 This course is an introduction to the scientific study of behavior through an exploration of the major concepts and research in the field of psychology. The course provides the basic foundation for more advanced courses in psychology. (UC, CSU, CAN PSY 2)

**PSYCH 2 Careers in Psychology Units 2**

*Prerequisites:* PSYCH 1; reading level II.  
*Limitations on Enrollment:* None.  
*Advisories:* None.  
 This course is designed to offer an examination of career opportunities in psychology and related social science fields. Industrial, engineering, research, consumer, educational, counseling, and clinical fields are reviewed. The course examines the responsibilities, duties, special interests, and methods of psychologists in these fields

as well as the requirements and qualifications of their positions. The course also includes educational and career planning for students who wish to define personal and career goals. (CSU)

**PSYCH 3 Personal and Social Psychology Units 3**

*Prerequisites:* PSYCH 1; reading level II.  
*Limitations on Enrollment:* None.  
*Advisories:* None.  
 This course is designed to explore the process of human adjustment by examining the assumption of mental health, how personality develops, the types of deviant behavior, the process of creativity, the varieties of psychotherapy, and the application of adjustment concepts to social situations. (UC, CSU)

**PSYCH 4 Introduction to Experimental Psychology Units 3**

*Prerequisites:* PSYCH 1; reading level II.  
*Limitations on Enrollment:* None.  
*Advisories:* None.  
 This course is an introduction of the application of the scientific method to the analysis of behavior. Experimental techniques, designs, examination of experimental assumptions, limitations and advantages, as well as student participation are stressed. This course is designed for behavioral and social science majors. (UC, CSU)

**PSYCH 12 Introduction to Probability and Statistics Units 3**

*Prerequisites:* MATH 82 or 84A and 84B with a grade of "C" or better.  
*Limitations on Enrollment:* None.  
*Advisories:* None.  
 This course is designed to acquaint students to statistical methods. It is designed to teach students to read research reports critically using elementary statistical techniques as in business administration, education, natural sciences, psychology, and social science. (UC, CSU, CAN STAT 2)

**PSYCH 15 Selected Topics: Psychology Units 1-2**

*Prerequisites:* Reading level II.  
*Limitations on Enrollment:* None.  
*Advisories:* None.  
 This course is designed to offer instruction in one of the specialized areas of psychology not already covered by the existing curricula. (UC, CSU)

**PSYCH 20 Stress Management Units 1**

*Prerequisites:* Reading level II or concurrent enrollment in reading.  
*Limitations on Enrollment:* None.  
*Advisories:* None.  
 This course is designed to acquaint students with the role stress plays in the lives of all individuals. The course focuses on the effects of stress and how to manage stress. (CSU)

**PSYCH 24 Psychology of Aging Units 3**

*Prerequisites:* None.  
*Limitations on Enrollment:* None.  
*Advisories:* None.  
 This course is a study of the changes that occur in sensory and motor functioning, perception, memory, emotions, intelligence, and personality of the aging person. Attention is given to social cultural, and economic factors that impinge upon aging persons and current programs that attempt to deal with these factors. (UC, CSU)

**PSYCH 30 Human Sexuality Units 3**

*Prerequisites:* None.

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a survey of the physiological, social, and behavioral aspects of human sexuality. The course is academic rather than therapeutic. (UC, CSU)

**PSYCH 38 Counseling Skills for Human Service Workers Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an introduction to the counseling process through examination of the roles and characteristics of the counselor and the client. Basic skills involved in problem identification and problem solving are discussed and practiced through simulated role situations. (CSU)

**PSYCH 39 Client Interview, Evaluation, and Referral Units 2**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a review of basic client interview skills for the counselor. The course explores establishing rapport with clients, enlisting the client in the development of treatment plans, and making appropriate client referrals. Students practice active listening and other communication skills in simulated client interview settings. (CSU)

**PSYCH 40 Case Management and Treatment Planning Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a review of basic skills for effective and efficient case work management including goal analysis, identification and specification of client objectives, case planning, client contracting, data collection and record keeping, and client progress evaluation and reporting. Skills are applied using actual client examples. Participants write case plans, client contracts and treatment goals, and demonstrate mastery of all other case work management skills. (CSU)

**PSYCH 45A Beginning Field Practicum Units 2**

*Prerequisites: Completion of or concurrent enrollment in EDUC 10, PSYCH 1, PSYCH 44, or SOCIO 1A; reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide an opportunity for students to have on-the-job learning experiences in human service agencies. Students observe professional staff working with clients in public agencies. One hour in class is required each week to integrate practical experiences with theory learned in psychology theory courses. (UC, CSU)

**PSYCH 45B Intermediate Field Practicum Units 1-2**

*Prerequisites: Completion of or concurrent enrollment in EDUC 10, PSYCH 1, PSYCH 44, or SOCIO 1A; reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide an opportunity for students to have on-the-job learning experiences in human service agencies. Students observe professional staff working with clients in public agencies. One hour in class is required each week to integrate

practical experiences with theory learned in psychology courses. (UC, CSU)

**PSYCH 46 Individual Counseling in Human Service Programs Units 3**

*Prerequisites: Completion of or concurrent enrollment in PSYCH 1; reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course stresses basic skills for effective one-to-one counseling in human service programs through discussion and simulated counseling situations. Participants examine their own counseling styles and identify needed modifications with the assistance of the instructor and peers. (CSU)

**PSYCH 47 Group Counseling in Human Services Programs Units 3**

*Prerequisites: Reading level II; completion of or concurrent enrollment in PSYCH 1.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a review of group counseling methods with an emphasis on an eclectic approach to group facilitation. Learning is derived from experiences in simulated group interaction and from subsequent analysis with the instructor and peers. Participants learn to identify personal style as group leaders and describe modifications needed in group facilitation techniques. (CSU)

**PSYCH 48 Family Counseling in Human Service Programs Units 2**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an examination of principles and methods related to understanding and working with families in human service programs. Family systems and interactions are explored through a review of current articles and demonstration of intervention methods in simulated family counseling situations. Participants identify personal styles as family counselors and describe modifications needed to improve family counseling skills. (CSU)

**PSYCH 50H Special Studies: Psychology Units 1-2**

*Prerequisites: Reading level II; completion of survey course with grade of "B" or better and presentation of a project acceptable to the instructor and division chairperson.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is open to students qualified to do advanced work in the field. The course includes research directed reading, field work, or other advanced study, and the course may be repeated for maximum of four units. (UC, CSU)

**PSYCH 52 Introduction to Substance Abuse Counseling Units 3**

*Prerequisites: Reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an overview of the field of substance abuse counseling. Emphasis is placed on career challenges and opportunities. Evaluation, assessment, and counseling methods are discussed. Legal and community resources available to provide assistance are explored. (CSU)

**PSYCH 53 Drugs and Society Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to give students a basic pharmacology of the drugs of abuse as well as some effective skills to deal with the lifestyle of the abuser. The information provided aids human services students in establishing a positive counseling relationship with drug dependent individuals and in giving those individuals life-skills. (CSU)

**PSYCH 55 Introduction to Child Abuse Counseling Units 2**

*Prerequisites: Completion of or concurrent enrollment in PSYCH 1 or SOCIO 1A.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a study of the dynamics of child abuse. Emphasis is placed on learning to understand prevention and intervention services for victims of child abuse and their families. Legal and community resources available to victims and families are explored. (CSU)

**PSYCH 56 Assisting Sexual Assault Victims Units 2**

*Prerequisites: Reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a study of the sexual assault of adults and children. Legal and community resources available to victims and families are explored. Emphasis is placed on learning to provide crisis intervention for survivors of sexual assault and their families. (CSU)

**PSYCH 57 Introduction to Gerontology Counseling Units 2**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an overview of the field of gerontology counseling. Emphasis is placed on career challenges and opportunities in the field of gerontology and as specialists working with geriatrics. Emphasis will be placed on an exploration of available resources in the areas of medical health care professionals, research findings, legal ramifications and various governmental and private agencies working in the field of gerontology. (CSU)

## RADIOLOGIC TECHNOLOGY

**RAD 10 Introduction to Radiography Units 3.5**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide an overview of the history of radiologic technology. Emphasis is placed on methods of promoting optimal patient care, and the importance of developing a professional and caring attitude. Factors required for X-Ray production are discussed including detailed instruction of the beneficial and destructive potentials of ionizing radiation. Safe radiation protection procedures for self, patients, and hospital personnel are discussed. The course includes body mechanics and infection control. (CSU)

**RAD 10A Beginning Clinical Laboratory Units 2**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide an introduction to clinical radiographic training. The course includes practical training in the functions of the darkroom, office and file rooms, and training involving patient transportation. An introduction to X-Ray equipment and technical selection is included. (CSU)

**RAD 10B Intermediate Clinical Laboratory Units 5**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide clinical radiographic training. The course includes examinations of the chest, extremities, shoulder and pelvic girdles, abdomen and the alimentary, biliary, and urinary systems, all of which are done under direct supervision. Portable and operating room radiography are included in this course. (CSU)

**RAD 11 Radiographic Positioning and Terminology Units 6**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to cover positioning techniques, medical terminology, and anatomy as they relate to the chest, extremities, shoulder and pelvic girdles, spinal column, and the alimentary system. Portable and operating room procedures, proper equipment selection, immobilization, and radiation protection procedures are stressed. Identification of anatomical structures is supported through film critique sessions of radiographs. (CSU)

**RAD 12 Radiographic Anatomy Units 2**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to teach students common anatomical terminology, cell division, the structure of skin, bones and joints, structure and the extremities, vertebral column, thorax, and the skull. Radiographic application of these structures is presented as well as common pathological conditions identified in radiography. (CSU)

**RAD 13 Principles of Radiographic Technique Units 4**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to teach students the principles involved in producing a diagnostic radiograph. The course includes detailed instruction in radiographic film, equipment, and accessories utilized in image production. The primary factors of kilo-voltage, milliamperage, time, and distance are explained and practical application of exposure calculations are performed. Also included is discussion

of the sensitometric properties of X-Ray film, patient characteristics, pathological conditions relative to technique selection, the principles and designs of radiographic technique charts, and fundamental principles of digital radiography. (CSU)

#### **RAD 14 Darkroom Chemistry and Processing Units 1**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to acquaint students with the principles associated with process room design and function, film storage and handling, manual automatic processing chemicals and techniques, automatic processor systems and functions, latent image formation, identification and causes of film artifacts, and silver recovery and fixer recycling systems. (CSU)

#### **RAD 20 Advanced Radiographic Positioning and Terminology Units 4**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to cover positioning techniques, medical terminology, related anatomy, and preparation for specialized radiographic procedures. The bony thorax, skull, facial bones, sinuses, mastoids, urinary and biliary systems, circulatory systems, female reproductive system, sialography, tomography, pediatric radiography, and arthrography are discussed. Proper equipment selection, immobilization, and radiation protection procedures are stressed. Proper demonstration and identification of required anatomical structures is supported through film critique session of radiographs. An introduction to computer tomography and magnetic resonance imaging is included. (CSU)

#### **RAD 20A Advanced Clinical Laboratory Units 6**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to emphasize positioning and technical factor calculation. An introduction to positioning of the skull, facial bones, mastoids, and the thorax is included. Students participate in specialized radiographic procedures including myelography, sialography, hystero-graphy, arthrography, arteriography and other specialized procedures requiring sterile and aseptic techniques. (CSU)

#### **RAD 21 Advanced Radiographic Anatomy Units 2**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to introduce students to complex systems of the body. The course is designed to teach students the structures of the various parts of each specialized system and to detail the anatomic structures. The systems involved are the muscular, circulatory, digestive, genitourinary, nervous, endocrine, and others.

Radiographic application of these systems is presented as well as common anomalies and pathologies related to these systems as indicated by radiographic examination. (CSU)

#### **RAD 22 Fundamentals of X-Ray and Radium Physics Units 4**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to cover the structure of the atom, the concepts of mechanics, electromagnetic radiation, electromagnetism, electro-dynamics, electrostatics, electric generators, and motors. The production and control of high voltage rectifiers and the components and principles of operation of the X-Ray circuit are included also. Properties of X-Rays, X-Ray production, and X-Ray interaction with matter are covered in detail. Methods to computing mathematical calculations utilizing the English and metric systems are covered. (CSU)

#### **RAD 23 Positioning and Technical Laboratory Units 0.5**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to cover the practical application of technical exposure calculations, accessory equipment, positioning techniques, and radiation protection procedures. (CSU)

#### **RAD 30 Intermediate Positioning: Technical Laboratory Units 0.5**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to cover the application of principles for technical exposure calculations, accessory equipment, positioning techniques, and radiation protection. Students learn how to identify and obtain radiographs of optimal quality. (CSU)

#### **RAD 30A Senior Clinical Laboratory Units 4**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide clinical training in radiographic procedures under direct or general supervision. The course includes rotation through surgery magnetic resonance imaging, ultrasound, computer tomography, nuclear medicine, special procedures, radiation therapy, and general radiography. (CSU)

#### **RAD 30B Advanced Senior Clinical Laboratory Units 9**

*Prerequisites: RAD 30 and 30A; concurrent enrollment in RAD 31; Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide advanced clinical training in radiographic procedures. Students obtain experience in surgery, axial tomography, ultrasound, computer tomography, nuclear medicine, special procedures, radiation therapy, and general radiography. (CSU)

**RAD 31 Advanced Positioning: Units 1**  
**Technical Laboratory**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to cover the application of test tools used for quality control and for determining radiation exposure doses. Emphasis is placed on the utilization of techniques which limit radiation dosage to patient. (CSU)

**RAD 32 Sectional Anatomy Units 2**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide students an understanding of anatomy in three dimensions. Transverse, sagittal, and coronal sections of anatomy are discussed along with dimensional relationships. Utilizing examination examples of magnetic resonance imaging, computer tomography, and ultrasound, each region of the body is studied. Students gain an understanding of disease process and abnormal pathology as presented in three dimensions. (CSU)

**RAD 40 Senior Review: Advanced Units 6**  
**Radiation Protection**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed for senior students qualifying for graduation from a 24-month program. The course includes formal instruction in radiation protection as governed under Title 17 of the State Department of Health and the standards of the National Council on Radiation protection. In preparation for the state and national examinations, a comprehensive review of materials covered throughout the two year period is included with additional information on imaging equipment and innovative technology. (CSU)

**RAD 40A Radiographic Laboratory Units 7**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to continue the practical training in radiographic procedures under general supervision with emphasis on perfection of all radiologic examinations. Further exposure to angiographic procedures and specialized fluoroscopic examinations are included as well as rotations through computerized tomography, ultrasound, nuclear medicine, and magnetic resonance imaging. (CSU)

**RAD 41 Radiographic Pathology and Units 3**  
**Film Critique**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide an overview of medical and surgical diseases to acquaint students with changes that occur with disease and injury and their application to radiologic technology. Students gain an understanding of these disease processes which

enables them to handle seriously ill or injured patients more intelligently and to select positions and technical factors which produce quality, diagnostic radiographs. (CSU)

## READING

**READING 69V Internship: Reading Units 1-8**

*Prerequisites: None.*

*Limitations on Enrollment: The student must enroll in a course that is directly related to the reading internship. The student must enroll in a minimum of 7 units during the fall or spring semesters including internship units. For summer session, the student must enroll in one related course in addition to internship. The combined total number of units a student may take in internship, work experience, and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of internship program objectives and an employer internship agreement.*

*Advisories: GUID 30, 31, 32, 33.*

This course is designed for students participating in an occupational internship in reading. Application of discipline-related skills and knowledge of tutoring basic skills and thinking skills (SCANS) competencies is emphasized. Each student is engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college internship instructor. (CSU)

**READING 74A Textbook Reading and Units 1**  
**Study Strategies**

*Prerequisites: Reading level II or concurrent enrollment in READ 90A-F or 98G-M.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to assist students in applying reading and study strategies to a textbook from another course.

**READING 74B College Research Strategies Units 1**

*Prerequisites: Reading level II or concurrent enrollment in READ 90A-F or 98G-M.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed as an authentic experience in college level research. Through a study of the life of a famous person, students learn the notetaking, research, and presentation skills needed for college courses.

**READING 74C The Research Paper Units 1**

*Prerequisites: Reading Level II or concurrent enrollment in READ 90A-F or 98G-M.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed for students who need assistance in applying reading and writing research techniques to an assigned research paper from another course.

**READING 74D Summary Writing Units 1**

*Prerequisites: Reading Level II or concurrent enrollment in READ*

90A-F or 98G-M.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to offer techniques and practice in writing summaries of articles from journals and other publications.

### **READING 74E Vocabulary Enrichment Units 1**

*Prerequisites: Reading level II or concurrent enrollment in READ 90A-F or 98G-M.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed for students who wish to enrich their vocabulary for career and academic purposes. A variety of strategies are taught to enhance the student's ability to understand and retain new vocabulary words.

### **READING 74F Basic Grammar for Writing and Speaking Units 1**

*Prerequisites: Reading level II or concurrent enrollment in READ 90A-F or 98G-M.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to offer practice in the basic conventions of grammar within the context of reading and writing assignments.

### **READING 74G Spelling Units 1**

*Prerequisites: Reading level II or concurrent enrollment in READ 90A-F or 98G-M.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to help students improve spelling skills by using sight words they already know to spell polysyllabic words.

### **READING 74H Reading Literature Units 1**

*Prerequisites: Reading level II or concurrent enrollment in READ 90A-F or 98G-M.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed for students who wish to expand their understanding of literature through group discussions. Students read, discuss, and analyze a broad range of literature in preparation for literature courses.

### **READING 74I Conversations about Literature for Non-Native Speakers Units 1**

*Prerequisites: Reading level II or concurrent enrollment in READ 90A-F or 98G-M.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed for non-native speakers who want practice in using American expressions. Students learn to use and understand idiomatic expressions through literature discussion groups.

### **READING 74J Reading and Writing Techniques for the Information Age Units 1**

*Prerequisites: Reading level II or concurrent enrollment in READ 90A-F or 98G-M.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed as an introduction to information age literacy. Students learn the basic reading, writing, and computer skills necessary for communicating in the information age.

### **READING 75D Reading and Writing Techniques Units 4**

*Prerequisites: Reading Level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to improve comprehension, word analysis, spelling, vocabulary, and grammatical skills.

### **READING 90A Introduction to Reading and Language Skills Units 3-4**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is the first course of a program designed to improve reading through the study of phonetic analysis, basic sight words, spelling, vocabulary development, and basic comprehension. The course meets the level I reading requirement. Units earned in this course do not count toward the associate degree.

### **READING 90B Introduction to Reading and Language Skills Units 3-4**

*Prerequisites: READING 90A or equivalent.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is the second course of a program designed to improve reading through the study of phonetic analysis, basic sight words, spelling, vocabulary development, and basic comprehension. The course meets the level I reading requirement. Units earned in this course do not count toward the associate degree.

### **READING 90C Beginning Reading and Language Skills Units 3-4**

*Prerequisites: READING 90B or equivalent.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is the third course of a program designed to improve reading through the study of structural analysis, word recognition, vocabulary development, spelling, and comprehension. The course meets the level I reading requirement. Units earned in this course do not count toward the associate degree.

### **READING 90D Beginning Reading and Language Skills Units 3-4**

*Prerequisites: READING 90C or equivalent.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is the fourth course of a program designed to improve reading through the study of structural analysis, word recognition, vocabulary development, spelling, and comprehension. The course meets the level I reading requirement. Units earned in this course do not count toward the associate degree.

### **READING 90E Intermediate Reading and Language Skills Units 3-4**

*Prerequisites: READING 90D or equivalent.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is the fifth course of a program designed to improve reading through the study of vocabulary development, word analysis, spelling, comprehension skills, and study skills. The course meets the level I reading requirement. Units earned in this course do



not count toward the associate degree.

**READING 90F Intermediate Reading and Language Skills Units 3-4**

*Prerequisites: READING 90E or equivalent.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is the sixth course of a program designed to improve reading through the study of vocabulary development, word analysis, spelling, comprehension skills, and study skills. The course meets the level I reading requirement. Units earned in this course do not count toward the associate degree.

**READING 91A Reading in Literature Units 4**

*Prerequisites: READING 90C.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to improve reading comprehension while building background knowledge in the subject area of literature. In this course students learn to use comprehension techniques and become acquainted with the basic concepts and vocabulary needed to take an introductory course in literature. Successful completion of four of the following five courses is equivalent to Reading level II: Reading in Literature, Reading in Earth and Life Sciences, Reading in Physical Science, Reading in World Geography and Culture, and Reading in History. Units earned in this course do not count toward the associate degree.

**READING 91B Reading in Earth & Life Sciences Units 4**

*Prerequisites: READING 90C.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to improve reading comprehension while building background knowledge in the subject area of earth and life sciences. In this course students learn to use comprehension techniques and become acquainted with the basic concepts and vocabulary needed to take an introductory course in earth and life sciences. Successful completion of four of the following five courses is equivalent to Reading level II: Reading in Literature, Reading in Earth and Life Sciences, Reading in Physical Science, Reading in World Geography and Culture, and Reading in History. Units earned in this course do not count toward the associate degree.

**READING 91C Reading in Physical Science Units 4**

*Prerequisites: READING 90C.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to improve reading comprehension while building background knowledge in the subject area of physical science. In this course students learn to use comprehension techniques and become acquainted with the basic concepts and vocabulary needed to take an introductory course in physical science. Successful completion of four of the following five courses is equivalent to Reading level II: Reading in Literature, Reading in Earth and Life Sciences, Reading in Physical Science, Reading in World Geography and Culture, and Reading in History. Units earned in this course do not count toward the associate degree.

**READING 91D Reading in World Geography and Culture Units 4**

*Prerequisites: READING 90C.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to improve reading comprehension while building background knowledge in the subject area of world geography and culture. In this course students learn to use comprehension techniques and become acquainted with the basic concepts and vocabulary needed to take an introductory course in world geography and culture. Successful completion of four of the following five courses is equivalent to Reading level II: Reading in Literature, Reading in Earth and Life Sciences, Reading in Physical Science, Reading in World Geography and Culture, and Reading in History. Units earned in this course do not count toward the associate degrees.

**READING 91E Reading in History Units 4**

*Prerequisites: READING 90C.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to improve reading comprehension while building background knowledge in the subject area of history. In this course students learn to use comprehension techniques and become acquainted with the basic concepts and vocabulary needed to take an introductory course in history. Successful completion of four of the following five courses is equivalent to Reading level II: Reading in Literature, Reading in Earth and Life Sciences, Reading in Physical Science, Reading in World Geography and Culture, and Reading in History. Units earned in this course do not count toward the associate degree.

**READING 98A Reading Assistance Center Units 0.5-3**

*Prerequisites: Concurrent enrollment in Reading 90A-F.*

*Limitations on Enrollment: None.*

*Advisories: None.*

Reading 98, the Reading Assistance Laboratory, provides students individualized lessons through a prescriptive program based on the diagnosis of individual reading strengths and needs. The laboratory sections, Reading 98A-F require concurrent enrollment in Reading 90A-F. Reading 98G-M are independent, individualized lab programs. Reading 98A-M meets the Level I reading requirement. Units earned in reading 98A-J do not count toward the associate degree.

**READING 98G Reading Assistance Center Units 0.5-3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide students individualized lesson through a prescriptive program based on the diagnosis of individual reading strengths and needs. The course meets the level I reading requirement. Units earned in this course do not count toward the associate degree.

**READING 98H Reading Assistance Center Units 0.5-3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide students individualized lessons through a prescriptive program based on the diagnosis of individual reading strength and needs. The course meets the level I reading requirement. Units earned in this course do not count toward the associate degree.

**READING 98I Reading Assistance Center Units 0.5-3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide students individualized lessons through a prescriptive program based on the diagnosis of individual reading strength and needs. The course meets the level I reading requirement. Units earned in this course do not count toward the associate degree.

**READING 98J Reading Assistance Center Units 0.5-3**

*Prerequisite: None. Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide students individualized lessons through a prescriptive program based on the diagnosis of individual reading strengths and needs. The course meets the level I reading requirement. Units earned in this course do not count toward the associate degree.

**READING 98K Reading Assistance Center Units 0.5-3**

*Prerequisite: None. Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide students individualized lessons through a prescriptive program based on the diagnosis of individual reading strengths and needs. The course meets the level I reading requirement. Units earned in this course do not count toward the associate degree.

**READING 98L Reading Assistance Center Units 0.5-3**

*Prerequisite: None. Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide students individualized lessons through a prescriptive program based on the diagnosis of individual reading strengths and needs. The course meets the level I reading requirement. Units earned in this course do not count toward the associate degree.

**READING 98M Reading Assistance Center Units 0.5-3**

*Prerequisite: None. Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide students individualized lessons through a prescriptive program based on the diagnosis of individual reading strengths and needs. The course meets the level I reading requirement. Units earned in this course do not count toward the associate degree.

## RELIGION

**RELGN 14A Great Religions of Man: Eastern World Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a survey of the historical development and essential beliefs of the major religions of the Eastern world. Primary emphasis is on the major phases of development and comparative insights among the great religions of the world. The course consists of readings, lectures, and discussions in Hinduism, Buddhism, Jainism, Confucianism, and Taoism. (UC, CSU)

**RELGN 14B Great Religions of Man: Western World Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a survey of the historical development and essential beliefs of the major religions of the Western world. Primary emphasis is on the major phases of development and comparative insights among the great religions of the world. The course consists of readings, lectures, and discussions in ancient near Eastern religious beliefs, Judaism, Christianity, Zoroastrianism and Islam. (UC, CSU)

## RUSSIAN

**RUSS 38A Special Assignment: Listening Units 2**

*Prerequisites: Concurrent enrollment in or completion of RUSSIAN 1 or 51.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a skill-building course with an emphasis on listening. It is adjusted to meet the special needs of students. It may be offered for individual or group study. (CSU)

**RUSS 38B Special Assignment: Pronunciation Units 2**

*Prerequisites: Concurrent enrollment in or completion of Russian 1 or 51.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a skill-building course with an emphasis on pronunciation. It is adjusted to meet the special needs of students. It may be offered for individual or group study. (CSU)

**RUSS 38C Special Assignment: Reading Units 2**

*Prerequisites: Concurrent enrollment in or completion of RUSSIAN 1 or 51.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a skill-building course with an emphasis on reading. It is adjusted to meet the special needs of students. It may be offered for individual or group study. (CSU)

**RUSS 38D Special Assignment: Writing Units 2**

*Prerequisites: Concurrent enrollment in or completion of RUSSIAN 1 or 51.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a skill-building course with an emphasis on writing. It is adjusted to meet the special needs of students. It may be offered for individual or group study. (CSU)

**RUSS 51 Elementary Russian Units 2.5**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a study and practice in speaking, listening, reading, and writing the Russian language. Emphasis is placed on culture and civilization. The combined five units of RUSS 51 and RUSS 52 are equivalent to Russian 1. (UC, CSU)

**RUSS 52 Elementary Russian Units 2.5**

*Prerequisites: Reading level II; RUSS 51.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a study and practice in speaking, listening, reading, and writing the Russian language. Emphasis is placed on culture and civilization. The combined five units of RUSS 51 and RUSS 52 are equivalent to Russian 1. (UC, CSU)

**RUSS 53 Elementary Russian Units 2.5**

*Prerequisites: Reading level II; RUSS 52.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a study and practice in speaking, listening, reading, and writing the Russian language. Emphasis is placed on language speech patterns, culture, and civilization. The combined five units of RUSS 53 and RUSS 54 are equivalent to Russian 2. (UC, CSU)

**RUSS 54 Elementary Russian Units 2.5**

*Prerequisites: Reading level II; RUSS 53.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a continued practice in speaking, listening, reading, and writing the Russian language. Emphasis is placed on language speech patterns, culture, and civilization. The combined five units of RUSS 53 and RUSS 54 are equivalent to Russian 2. (UC, CSU)

**SMALL ENGINE MECHANICS**

**SM ENG 30A Introduction to Compact Engines Units 5**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to introduce students to the basic theory, maintenance, construction, and repair of two-stroke and four-stroke commercial, recreational, marine, motorcycle, and lawn and garden engines and their applications. (CSU)

**SM ENG 30B Beginning Compact Engines Units 5**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to prepare students to analyze, troubleshoot, repair, and overhaul both two-stroke and four-stroke engines and their applications. (CSU)

**SM ENG 30C Intermediate Compact Engines Units 5**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to prepare students to analyze electrical problems found on compact engine equipment and to service and repair the powertrain. (CSU)

**SM ENG 30D Advanced Compact Engines Units 5**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to prepare students in specialized applications, drive trains, clutches, transmissions, electrical systems, and compact diesel systems. Students write work orders, develop parts lists, and work with customers. (CSU)

**SM ENG 87A Compact Engines Specialization Units 3**

*Prerequisites: SM ENG 30D.*

*Limitations on Enrollment: This course requires instructor approval to enroll.*

*Advisories: None.*

This course is designed for advanced students in compact engines. Students complete an advanced specialized project developed in consultation with the instructor.

**SOCIAL SCIENCE**

**SOCSC 15 Selected Topics: Social Science Units 1-2**

*Prerequisites: Reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to offer instruction in one of the specialized areas of social science not already covered by the existing curricula. (UC, CSU)

**SOCSC 30 American Immigrant Experience Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an introduction to the immigrant experience in the United States. The course examines the racial, religious, and cultural values of ethnic groups which sustain the groups while perpetuating a pluralistic society in America, and it demonstrates that ethnic diversity is a major theme in the history of the United States. (UC, CSU)

**SOCSC 99V Work Experience: Social Science Units 1**

*Prerequisites: Reading level II; students must be enrolled in at least three units of class work, of which at least one course and also employment, must be related to major field of study.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to give students college credit for on-the-job experience related to the major study field. Students must demonstrate new and expanded learning experiences before being permitted to repeat. To register, contact work experience staff in the work experience office. This course may be repeated three times in sequence except for summer school alternate plan.

**SOCIOLOGY**

**SOCIO 1A Introduction to Sociology Units 3**

*Prerequisites: Reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to examine how social forces affect human behavior. Students classify, discuss, and analyze the major social forces such as socialization, culture, class inequality and differences, ethnic and racial relations, economic and political institutions, education, family, religion, and social change. (UC, CSU, CAN SOC 2)

### **SOCIO 1B Problems of a Changing Society Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to focus attention on the social problems which grow out of rapid social and cultural change. Among topics considered are family disorganization, economic insecurity, juvenile delinquency and adult criminality, physical and mental ill health, racial discrimination, international tensions, and education. (UC, CSU, CAN SOC 4)

### **SOCIO 15 Selected Topics: Sociology Units 0.5-2**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to offer instruction in one of the specialized areas of sociology not already covered by existing curricula. (UC, CSU)

### **SOCIO 24 Social Welfare Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to explore the origin and development of the religious, political, economic, social, and historical forces which have contributed to the emergence of social welfare as an institution in America. It is recommended for social worker majors or those with particular interest in social welfare. (UC, CSU)

### **SOCIO 27 Gender in Contemporary Society Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to examine changing sex roles in contemporary society with a special emphasis on gender in the United States which will be put in the context of a historical and comparative analysis of men and women's varying roles, statutes, and life chances. Social problems such as domestic violence and economic and social discrimination are examined. The course also addresses the feminist movement, the men's movement, and the recent backlash to feminism. (UC, CSU)

### **SOCIO 33 Social Inequality in the United States Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to examine social inequality and stratifica-

tion from a theoretical and comparative perspective, with an emphasis on the United States. Included in the course is a discussion and analysis of types of inequality such as age and gender, inequality types of stratification including racial, ethnic, and class stratification. The experiences of many racial and ethnic groups are addressed including African-Americans, Asian-Americans, Latinos, Native Americans, and Americans of European descent. (UC, CSU)

### **SOCIO 45A Beginning Field Practicum Units 2**

*Prerequisites: Reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide an opportunity for students to have on-the-job learning experiences in human service agencies. Students observe professional staff working with clients in public agencies. One hour in class is required each week to integrate practical experiences with theory learned in sociology courses. (UC, CSU)

### **SOCIO 45B Intermediate Field Practicum Units 2**

*Prerequisites: Completion of or concurrent enrollment in EDUC 10, PSYCH 1, PSYCH 44, or SOCIO 1A; reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to provide an opportunity for students to have on-the-job learning experiences in human service agencies. Students observe professional staff working with clients in public agencies. One hour in class is required each week to integrate practical experiences with theory learned in sociology courses. (UC, CSU)

### **SOCIO 50H Special Studies: Sociology Units 1-2**

*Prerequisites: Reading level II; completion of survey course with grade of 'B' or better and presentation of a project acceptable to the instructor and division chairperson.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is open to students qualified to do advanced work in the field. The course includes research, directed reading, field work, or other advanced study, and the course may be repeated for a maximum of four units. (UC, CSU)

## **SPANISH**

### **SPAN 1 Elementary Spanish Units 5**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an introduction to the Spanish language and the Spanish culture. Emphasis is placed on listening, speaking, reading, and writing. (UC, CSU, CAN SPAN 2, CAN SPAN SEQ A with both SPAN 1 and 2)

### **SPAN 2 Elementary Spanish Units 5**

*Prerequisites: SPAN 1 or 52.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an introduction to the Spanish language and the Spanish culture. Emphasis is placed on listening, speaking, reading,

and writing. (UC, CSU, CAN SPAN 4, CAN SPAN SEQ A with both SPAN 1 and 2)

**SPAN 3 Intermediate Spanish Units 5**

*Prerequisites: SPAN 2 or 54; reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a continued study of the Spanish language and the Spanish culture. Efforts to improve reading and composition skills are based on both contemporary and traditional selections. (UC, CSU, CAN SPAN 8, CAN SPAN SEQ B with both SPAN 3 and 4)

**SPAN 4 Intermediate Spanish Units 5**

*Prerequisites: SPAN 3; reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a continued study of the Spanish language and the Spanish culture. Efforts to improve reading and composition skills are based on both contemporary and traditional selections. (UC, CSU, CAN SPAN 10, CAN SPAN SEQ B with both SPAN 3 and 4)

**SPAN 36A Introductory Spanish Conversation Units 2**

*Prerequisites: SPAN 51 or SPAN 52 or SPAN 1; reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a skill-building course designed to strengthen fundamental communication patterns based on typical daily situations. (CSU)

**SPAN 36B Beginning Spanish Conversation Units 2**

*Prerequisites: Concurrent enrollment in or completion of SPAN 53 or 54 or SPAN 2; reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a skill-building course designed to achieve conversational ability based on typical daily situations. (CSU)

**SPAN 36C Intermediate Spanish Conversation Units 2**

*Prerequisites: Concurrent enrollment in or completion of SPAN 3; reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a skill-building course designed to refine conversational ability based on typical daily situations. (UC, CSU)

**SPAN 36D Advanced Spanish Conversation Units 2**

*Prerequisites: Concurrent enrollment in or completion of SPAN 4; reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a skill-building course designed to produce proficiency in oral rhetoric based on typical daily situations. (UC, CSU)

**SPAN 38A Special Assignment: Listening Units 2**

*Prerequisites: Concurrent enrollment in or completion of SPAN 1 or 51; reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a skill-building course with an emphasis on listening. The course is adjusted to meet the special needs of students, and it may be offered for individual or group study. (CSU)

**SPAN 38B Special Assignment: Pronunciation Units 2**

*Prerequisites: Concurrent enrollment in or completion of SPAN 1 or 51; reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a skill-building course with an emphasis on pronunciation. The course is adjusted to meet the special needs of students, and it may be offered for individual or group study. (CSU)

**SPAN 38C Special Assignment: Reading Units 2**

*Prerequisites: Concurrent enrollment in or completion of SPAN 1 or SPAN 51; reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a skill-building course with an emphasis on reading. The course is adjusted to meet the special needs of students, and it may be offered for individual or group study. (CSU)

**SPAN 38D Special Assignment: Writing Units 2**

*Prerequisites: Concurrent enrollment in or completion of SPAN 1 or 51; reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a skill-building course with an emphasis on writing. The course is adjusted to meet the special needs of students, and it may be offered for individual or group study. (CSU)

**SPAN 50H Special Studies: Spanish Units 1-2**

*Prerequisites: Reading level II; completion of survey course with grade of "B" or better and presentation of a project acceptable to the instructor and division chairperson.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is open to students qualified to do advanced work in the field. The course includes research, directed reading, field work, or other advanced study, and the course may be repeated for a maximum of four units.

**SPAN 51 Elementary Spanish Units 2.5**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a study and practice in speaking, listening, reading, and writing the Spanish language. Emphasis is placed on culture and civilization. The combined five units of SPAN 51 and SPAN 52 are equivalent to Spanish 1. (UC, CSU, CAN SPAN 2 with both SPAN 51 and 52, CAN SPAN SEQ A with SPAN 51, 52, 53, and 54)

**SPAN 52 Elementary Spanish Units 2.5**

*Prerequisites: Reading level II; SPAN 51.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a study and practice in speaking, listening, reading, and writing the Spanish language. Emphasis is placed on culture and civilization. The combined five units of SPAN 51 and SPAN 52 are equivalent to Spanish 1. (UC, CSU, CAN SPAN 2 with both SPAN 51 and 52, CAN SPAN SEQ A with SPAN 51, 52, 53, and 54)

**SPAN 53 Elementary Spanish Units 2.5**

*Prerequisites: Reading level II; SPAN 52.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a continued practice in speaking, listening, reading, and writing the Spanish language. Emphasis is placed on language

speech patterns, culture, and civilization. The combined five units of SPAN 53 and SPAN 54 are equivalent to Spanish 2. (UC, CSU, CAN SPAN 4, CAN SPAN SEQ A with SPAN 51, 52, 53, and 54)

### **SPAN 54 Elementary Spanish Units 2.5**

*Prerequisites: Reading level II; SPAN 53.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a continued practice in speaking, listening, reading, and writing the Spanish language. Emphasis is placed on language speech patterns, culture, and civilization. The combined five units of SPAN 53 and SPAN 54 are equivalent to Spanish 2. (UC, CSU, CAN SPAN 4 with both SPAN 53 and 54, CAN SPAN SEQ A with SPAN 51, 52, 53, and 54)

## **SPECIAL EDUCATION**

### **SP ED 7 Introduction to Communication Disorders Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an introduction to speech and language therapy which addresses speech and language disorders in children and adults including stuttering and voice disorders as well as trends in legislation and education. Community resources are reviewed. The course provides excellent information to students exploring careers related to speech and language therapy. (CSU)

### **SP ED 15 Selected Topics: Special Education Units 1-2**

*Prerequisites: Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to present selected topics dealing with various aspects of special education which are not addressed by the existing college curricula. Topics include such areas as careers in special education, concepts related to reasonable accommodation, and the implications of disability in various work and educational environments. (CSU)

### **SP ED 22 Beginning American Sign Language Units 3**

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is an introduction to communication with the deaf through American Sign Language AMESLAN. AMESLAN, sometimes referred to as the language of the deaf, is particularly useful to persons with interest in more effective communications with deaf adults and for those interested in eventual interpreting. (CSU)

### **SP ED 23 Intermediate American Sign Language Units 3**

*Prerequisites: SP ED 22 with a grade of "C" or better.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a course in manual communication in American Sign

Language at an intermediate level of study. It is assumed that students have achieved a basic understanding of AMESLAN words and concepts and will emphasize an expansion of the American Sign Language repertoire. (UC, CSU)

### **SP ED 24 Advanced American Sign Language Units 3**

*Prerequisites: SP ED 23 with a grade of "C" or better.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a course in manual communication in American Sign Language at an advanced level of study. It is reasonable to expect that students taking this course have a working knowledge of AMESLAN and have developed respectable communication skills using the language. The course works on expanding language repertoire and refining communication abilities through accurate use of idioms. (CSU)

### **SP ED 78A Introductory Sign Language Laboratory Units 1**

*Prerequisites: Concurrent enrollment in SP ED 18; reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to reinforce and expand the sign language skills acquired in SP ED 18. Emphasis is placed on finger spelling, number, conversational regulators, basic American Sign Language vocabulary, and basic American Sign Language communication skills.

### **SP ED 78B Beginning Sign Language Laboratory Units 1**

*Prerequisites: Concurrent enrollment in SP ED 22; reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to reinforce and expand the sign language skills acquired in SP ED 22. Emphasis is placed on finger spelling, numbers, regulators, American Sign Language vocabulary, and the specific American Sign Language grammatical structures learned in SP ED 22.

### **SP ED 78C Intermediate Sign Language Laboratory Units 1**

*Prerequisites: Concurrent enrollment in SP ED 23; reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to reinforce and expand the sign language skills acquired in SP ED 23. Emphasis is placed on finger spelling, numbers, the specific vocabulary and grammatical structures learned in SP ED 23.

### **SP ED 78D Advanced Sign Language Laboratory Units 1**

*Prerequisites: Concurrent enrollment in SP ED 24; reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to reinforce and expand the sign language skills acquired in SP ED 24. Emphasis is placed on finger spelling, numbers, total communication, specialized American Sign Language vocabulary, advanced American Sign Language grammatical structures and sign language idioms.

## SPEECH

### **SPCH 1A Fundamentals of Speech** Units 3

*Prerequisites: Reading level II.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is designed to emphasize current theories of communication, audience analysis, and development and organization of information for public speaking. (CAN SPCH 4)

### **SPCH 1B Advanced Speech** Units 3

*Prerequisites: Grade of "C" or better in SPCH 1A.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is concerned with refinement in delivery, style, and choice of materials and methods of organization for persuasion. The course is of special value to pre-legal, theology, radio, speech, drama, and teaching credential students. (UC, CSU)

### **SPCH 3 Interpersonal Communication** Units 3

*Prerequisites: None.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is designed to place emphasis on discovering communication problems and finding solutions. Speech is approached as an extension of the personality to include: listening, nonverbal language, self-esteem, and interpersonal conflicts. (CSU)

### **SPCH 5 Argumentation and Debate** Units 3

*Prerequisites: Reading level II or concurrent enrollment in reading level I.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is designed to focus on the study of theory, methods, and application of the principles of argumentation and debate including the analysis of propositions, issues, evidence, and reasoning through debates and persuasive speeches. (UC, CSU, CAN SPCH 6)

### **SPCH 6 Business and Professional Speaking** Units 3

*Prerequisites: Reading level II or concurrent enrollment in reading.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is designed to focus on practical communication skills as applied in a variety of speech settings selected from small group discussion, interpersonal communications, industrial, and professional speaking. Special emphasis is placed on the development of self confidence and ease in communication in those situations most commonly encountered in everyday life. (CSU)

### **SPCH 7 Intercultural Communication** Units 3

*Prerequisites: None.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is designed as an overview of the study of intercultural communication which includes analysis and comparisons of mes-

sage perception and transmission in interactions between people from different cultures. Practical application of skills for effective communication between people of different domestic and international cultures is emphasized. Optional field trip(s) may be offered as an informal ethnographic study. (CSU)

### **SPCH 9 Introduction to Communication Theory** Units 3

*Prerequisites: None.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is designed to assist students in understanding the elements of communication. The course provides a solid foundation in basic communication theory and practice. Students apply communication theory through simulated activities. (UC, CSU)

### **SPCH 15 Selected Topics: Speech** Units 1-2

*Prerequisites: None.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is designed to enable the College to offer instruction in one of the specialized areas of speech not already covered by the existing curricula. (UC, CSU)

### **SPCH 50H Special Studies: Speech** Units 1-2

*Prerequisites: Reading level II or concurrent enrollment in reading; completion of survey course with grade of "B" or better and presentation of a project acceptable to the instructor and division chairperson.*

*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is open to students qualified to do advanced work in the field. The course includes research, directed reading, field work, or other advanced study, and the course may be repeated for a maximum of four units. (UC, CSU)

### **SPCH 52A Introductory Speech Activities** Units 1-3

*Prerequisites: Reading level II or concurrent enrollment in reading level I.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is designed to provide students academic credit for supervised participation in intercollegiate speech tournaments, workshops, and speaking assignments. Students research, write, and deliver public speaking assignments including but not limited to debates, public speaking activities, oral interpretation of literature, and readers' theater. (CSU)

### **SPCH 52B Beginning Speech Activities** Units 1-3

*Prerequisites: SPCH 52A; Reading level II or concurrent enrollment in reading.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is a continuation of introductory speech activities. (CSU)

### **SPCH 52C Intermediate Speech Activities** Units 1-3

*Prerequisites: SPCH 52B.*  
*Limitations on Enrollment: None.*  
*Advisories: None.*

This course is a continuation of beginning speech activities. (CSU)

### **SPCH 52D Advanced Speech Activities** Units 1-3

*Prerequisites: SPCH 52C; Reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a continuation of intermediate speech activities. (CSU)

## VIETNAMESE

### VIET 36A Introductory Vietnamese Conversation Units 2

*Prerequisites: VIET 51 or 52 or VIET 1; reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a skill-building course designed to strengthen fundamental communication patterns based on typical daily situations. (CSU)

### VIET 36B Beginning Vietnamese Conversation Units 2

*Prerequisites: VIET 36A or concurrent enrollment in or completion of VIET 53 or 54 or VIET 2; reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a skill-building course designed to achieve conversational ability based on typical daily situations. (CSU)

### VIET 36C Intermediate Vietnamese Conversation Units 2

*Prerequisites: VIET 36B or concurrent enrollment in or completion of VIET 3; reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a skill-building course designed to refine conversational ability based on typical daily situations. (UC, CSU)

### VIET 36D Advanced Vietnamese Conversation Units 2

*Prerequisites: VIET 36C or concurrent enrollment in or completion of VIET 4; reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a skill-building course designed to produce proficiency in oral rhetoric based on typical daily situations. (UC, CSU)

### VIET 38A Special Assignment: Listening Units 2

*Prerequisites: Concurrent enrollment in or completion of VIET 1 or 51; reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a skill-building course with an emphasis on listening. It is adjusted to meet the special needs of students, and it may be offered for individual or group study. (CSU)

### VIET 38B Special Assignment: Pronunciation Units 2

*Prerequisites: Concurrent enrollment in or completion of VIET 1 or 51; reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a skill-building course with an emphasis on pronunciation. It is adjusted to meet the special needs of students, and it may be offered for individual or group study. (CSU)

### VIET 38C Special Assignment: Reading Units 2

*Prerequisites: Concurrent enrollment in or completion of VIET 1 or 51; reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a skill-building course with an emphasis on reading. It is adjusted to meet the special needs of students, and it may be offered for individual or group study. (CSU)

### VIET 38D Special Assignment: Writing Units 2

*Prerequisites: Concurrent enrollment in or completion of VIET 1 or 51; reading level II.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is a skill-building course with an emphasis on writing. It is adjusted to meet the special needs of students, and it may be offered for individual or group study. (CSU)

### VIET 51 Elementary Vietnamese Units 2.5

*Prerequisites: None.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to offer study and practice in speaking, listening, reading, and writing the Vietnamese language. Emphasis is placed on culture and civilization. The combined five units of VIET 51 and VIET 52 are equivalent to Vietnamese 1. (UC, CSU)

### VIET 52 Elementary Vietnamese Units 2.5

*Prerequisites: Reading level II; VIET 51.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to offer study and practice in speaking, listening, reading, and writing the Vietnamese language. Emphasis is placed on culture and civilization. The combined five units of VIET 51 and VIET 52 are equivalent to Vietnamese 1. (UC, CSU)

### VIET 53 Elementary Vietnamese Units 2.5

*Prerequisites: Reading level II; VIET 52.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to offer continued practice in speaking, listening, reading, and writing the Vietnamese language. Emphasis is placed on language speech patterns, culture, and civilization. The combined five units of VIET 53 and VIET 54 are equivalent to Vietnamese 2. (UC, CSU)

### VIET 54 Elementary Vietnamese Units 2.5

*Prerequisites: Reading level II; VIET 53 and 54 are equivalent to VIET 2.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to offer continued practice in speaking, listening, reading, and writing the language. Emphasis is placed on language speech patterns, culture, and civilization. The combined five units of VIET 53 and VIET 54 are equivalent to Vietnamese 2. (UC, CSU)

## VOCATIONAL EDUCATION

### VO-ED 69V Internship: Vocational Education Units 1-8



*Prerequisites: None.*

*Limitation on Enrollment: The student must enroll in a course that is directly related to the vocational education technology internship. The student must enroll in a minimum of 7 units during the semester including internship units. For summer session, the student must enroll in one related course in addition to internship. The combined total number of units a student may take in internship, work experience, and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of internship program objectives and an employer internship agreement.*

*Advisories: GUID 30, 31, 32, 33.*

This course is designed for students participating in an occupational internship in vocational education technology. Application of discipline-related skills and knowledge of the Secretaries' Commission on Achieving Necessary Skills (SCANS) competencies is emphasized. Each student is engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college internship instructor. To register, complete an application form available at the Applied Science and Technology Division office, Holt 140. (CSU)

**VO-ED 80V Work Experience: Units 1-8  
Apprenticeship**

*Prerequisites: None.*

*Limitation on Enrollment: The student must enroll in a course that is directly related to the vocational education experience. The student must enroll in a minimum of 7 units during the semester including work experience units. For summer session, the student must enroll in one related course in addition to work experience. The combined total number of units a student may take in internship, work experience, and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of work experience program objectives and an employer work experience agreement.*

*Advisories: GUID 30, 31, 32, 33.*

This course is designed for indentured apprentices. The course objectives are developed by the students in consultation with their supervisor. Students are engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college work experience instructor. To register, complete an application form available at the Applied Science and Technology Division office, Holt 140.

**VO-ED 90V Work Experience: Units 1-8  
Vocational Education**

*Prerequisites: None.*

*Limitation on Enrollment: The student must enroll in a course that is directly related to the vocational education experience. The student must enroll in a minimum of 7 units during the semester including work experience units. For summer session, the student must enroll in one related course in addition to work experience. The combined total number of units a student may take in internship, work experience, and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of work experience program objectives and an employer work experience agreement.*

*Advisories: GUID 30, 31, 32, 33.*

This course is designed for students employed in a career area. The course objectives are developed by the students in consultation with their supervisor. Students are engaged in a specific research project

or on-the-job learning activities under the supervision of a worksite supervisor and a college work experience instructor. To register, complete an application form available at the Applied Science and Technology Division office, Holt 140.

**VO-ED 96V Work Experience: General Units 1-3**

*Prerequisites: None.*

*Limitation on Enrollment: The student must enroll in a course that is directly related to the ornamental horticulture work experience. The student must enroll in a minimum of 7 units during the semester including work experience units. For summer session, the student must enroll in one related course in addition to work experience. The combined total number of units a student may take in internship, work experience, and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of work experience program objectives and an employer work experience agreement.*

*Advisories: GUID 30, 31, 32, 33.*

This course is designed to award college credit for students working on campus and enrolled in a course that directly relates to their job. Students work for faculty members in offices, the library, laboratories, shops, or gymnasiums. To register, complete an application form available at the Applied Science and Technology Division office, Holt 140.

## VOCATIONAL NURSING

**VOC NUR 1 Foundations of Nursing Units 8.5**

*Prerequisites: Admission to Vocational Nursing Program.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to introduce students to the fundamental issues and trends in nursing focusing on the role of the Licensed Vocational Nurse (LVN). The basic concepts of anatomy and physiology and the mechanisms of disease, nutrition, and pharmacology are included. Wholism is introduced as the theoretical framework used to identify patient needs. The clinical component of this course emphasizes care of the geriatric patient. Certified Nurse Assistant's (CNA) and psychiatric technicians may be able to have this course waived. (CSU)

**VOC NUR 2 Introduction to Medical and Surgical Nursing Units 8.5**

*Prerequisites: Admission to Vocational Nursing Program; VOC NUR 1 and reading level II or concurrent enrollment in reading.*

*Limitations on Enrollment: None.*

*Advisories: None.*

This course is designed to introduce students to the nursing care of patients with common medical-surgical disorders of the cardiovascular, respiratory, and endocrine systems and that of the special senses. The clinical focus of this course is nursing care of adult patients with an uncomplicated course of treatment utilizing the concept of wholism. Students are introduced to principles of asepsis as applied to pre-operative and post-operative patient management. Psychiatric technicians may be able to have this course waived. (CSU)

**VOC NUR 3 Obstetrical Nursing Units 3.5**

*Prerequisites:* VOC NUR 2; Reading level II or concurrent enrollment in reading.

*Limitations on Enrollment:* None.

*Advisories:* None.

This course is designed to prepare vocational nursing students for the role of providing care to low-risk and high-risk childbearing families. The theoretical framework of wholism is utilized for identification of biological, psychological, sociological, cultural, and spiritual family needs. The nursing process is utilized for the planning and implementation of care. Fundamental issues, trends and the role of the vocational nurse in childbearing nursing are addressed. (CSU)

#### **VOC NUR 4 Pediatric Nursing Units 3.5**

*Prerequisites:* VOC NUR 2; Reading level II or concurrent enrollment in reading.

*Limitations on Enrollment:* None.

*Advisories:* None.

This course is designed to introduce vocational nursing students to the fundamental issues and trends in pediatric nursing. The theoretical framework of wholism is applied in analyzing patient and family needs and the biological, psychological, sociological, cultural, and spiritual factors that may affect their interaction with the environment. Threaded throughout the course is a strong emphasis on growth and developmental changes that occur in the pediatric population. In addition to the maintenance of the well child, students are introduced to familial influences on child health promotion, the mechanisms of disease, nutrition, and pharmacology. (CSU)

#### **VOC NUR 5 Intermediate Medical/Surgical Nursing Units 9**

*Prerequisites:* VOC NUR 2; Reading level II or concurrent enrollment in reading.

*Limitations on Enrollment:* None.

*Advisories:* None.

This course is designed to introduce students to the care of common disorders affecting the neurological, musculoskeletal, genitourinary, and gynecological systems. Concepts related to psychopathology and oncology are included. Concurrent clinical practice in the care of patients with specific dysfunctions builds upon the theoretical framework of wholism presented in lecture. The course includes a specialized clinical rotation in mental health nursing. (CSU)

#### **VOC NUR 6 Advanced Medical/Surgical Nursing Units 9**

*Prerequisites:* VOC NUR 2; reading level II or concurrent enroll-

ment in reading.

*Limitations on Enrollment:* None.

*Advisories:* None.

This course is designed to broaden student exposure to and perceptions of the biological, psychological, sociological, cultural, and spiritual aspects of health care. Students are introduced to concepts of illness and wellness states as related to immunology and communicable diseases. Trauma and emergency nursing care procedures are presented. Ethical and legal issues and relevant pharmacology content are integrated. Rehabilitation programs are included to emphasize the community aspects of nursing care. Leadership and supervision content are presented to help students relate to the various roles within the health care organization. (CSU)

## **ZOOLOGY**

#### **ZOOL 1 General Zoology Units 5**

*Prerequisites:* Reading level II or concurrent enrollment in reading; BIOL 1.

*Limitations on Enrollment:* None.

*Advisories:* None.

This course is a survey of the major animal groups based upon their structural and chemical similarities. The course fulfills the lower division preparation for advanced courses in zoology and satisfies the elementary zoology requirements for medicine, pharmacy, dentistry, game specialists, teachers of biology, and majors in the biological sciences. Off-campus and on-campus field trips are taken. (UC, CSU, CAN BIOL 4)

