Nursing, Registered (RN)
Announcement of Curriculum

Degree Curriculum

The Associate in Science curriculum in Nursing is accredited by the California Board of Registered Nursing (BRN). Students who complete the course of study in accordance with City College requirements are eligible to take the National Council Licensure Examination of Registered Nurses (NCLEX-RN). Those who pass the NCLEX-RN are qualified for entry-level positions of R.N. in health facilities and agencies.

NOTE: The licensing process for becoming a registered nurse in California is under the jurisdiction of the BRN. The BRN requires disclosure of all misdemeanor and felony convictions for all license applicants and disclosure of all disciplinary actions taken against a license applicant who already has a practical nurse, vocational nurse or other professional license. Fingerprinting is also required. Persons considering enrollment in the Nursing Department may contact the BRN in advance of considering the Nursing program to learn whether a previous conviction or disciplinary record will prevent licensing to practice nursing.

Course of Study. The Nursing course of study includes instruction in applied science and related life sciences, and clinical experience in San Francisco Bay Area cooperating clinical settings. The required course of study for Nursing includes courses that may also satisfy certain general education requirements.

Associate in Science Degree. The Nursing curriculum, supplemented by general education courses, is designed so that students may satisfy the requirements for graduation from City College with the degree of Associate in Science. It is required that all students who wish to enroll in the Nursing Program take the CCSF placement tests before enrolling.

Enrollment. Enrollment in the Nursing Program follows the City College policy of equal educational opportunity. Because of facility and staffing limitations, as well as health and safety requirements, not all students who wish to enroll in the Nursing Program can be accommodated. Selection from among students who are eligible to enroll is made each semester for the following program cycle.

Requests for information regarding enrollment should be addressed to:
Enrollment Committee
Nursing Department
City College of San Francisco
50 Phelan Avenue
San Francisco, CA 94112

Dates for Filing Required Enrollment Forms. For the fall semester, enrollment forms must be received by the Nursing Department no later than March 15 and for the spring semester, no later than September 15. If either date falls on a weekend or a holiday, the receipt date is moved to the next calendar day.

Expenses. Students should expect to incur expenses of approximately $2500 covering the two years of nursing curriculum. This does not include expenses that may relate to non-nursing classes. The expenses related to nursing classes include the cost of required books, uniforms, and individual equipment.

Enrollment to the Program. Because of facilities and staff limitations, 50 new students may be enrolled in the Nursing Program each semester. To be considered for enrollment, students must satisfy certain academic prerequisites as well as health and safety prerequisites. The following is a summary of the requirements for enrollment in the Nursing Program. Please contact the Nursing Department directly for an enrollment form and information package which includes more complete information.

1. File with the Office of Admissions and Records a completed application for admission to City College. No person may attend nursing classes unless he/she is properly admitted to the College.
2. Take the Placement Test in Math and English.
3. Complete the following prerequisite courses within 7 years prior to enrollment with a C or higher in each class:
   Anatomy 25
   Physiology 1 or 12
   Microbiology 12
4. Complete the following courses prior to enrollment with credit or a grade of C or higher: English 1A, 94, 96, or ESL 82 Math E or BSMA G, H or J
   Students may satisfy the above course prerequisites at other institutions, but the courses and grades must be verified prior to consideration for enrollment.
5. File a completed enrollment form for the Nursing Program for the fall semester between November 15 and March 15 and for the spring semester, between May 15 and September 15 with the Nursing Department.
6. Submit official transcripts to verify the completion of prerequisite courses to the Office of Admissions and Records and to the Nursing Department. Transcripts must be in the Nursing Office by April 15 for the fall and October 15 for the spring.
7. Health and safety requirements. Nursing courses require students to practice nursing skills in the classroom and in cooperating clinical settings. For health and safety reasons, enrollees must demonstrate through a recent, complete medical examination that they are able to participate in the program, have been tested for tuberculosis, and that they have received the following immunizations: rubella, rubella, varicella titer, and hepatitis B. Enrollees must also provide verification of cardiopulmonary resuscitation basic life support, health care provider certification. Verification of these requirements must be received by the Nursing Department prior to the first day of class.

If the number of prospective enrollees who have met all the program prerequisites exceeds the number of available spaces in the program, the new enrollees will be selected through nonevaluative measures.
Admission of LVNs, psychiatric technicians, transfer nursing students and RN requirements for BRN of California:

1. LVNs and psychiatric technicians with current, valid California licenses who have been accepted into the Nursing Program through the usual enrollment process may be given advance placement based on space availability. Please contact the Department Chairperson for further information.

2. LVN nurses who wish to take the 30-unit provisional program must have a current, valid California LVN license and must have completed Microbiology 12 and Physiology 1 or 12 with a grade of C or higher. Students who qualify for this option should make an appointment with the Nursing Department Chairperson for additional information. Advanced placement is on a space available basis only.

3. Transfer students from other accredited RN nursing programs are considered for enrollment in the Nursing Program. Acceptance is based on equivalent professional nursing education, general education courses and space availability. Transfer students must meet the same enrollment requirements and nursing policies as all students entering the program.

4. RNs who need specific courses required for the BRN for the NCLEX-RN examination should contact the Department Chairperson for additional information. Enrollment is on a space available basis only.

Credit by Examination. All nursing courses are challengeable. Consideration for challenge will be based on previous education and/or experience on an individual basis.

Academic Probation and Dismissal. The failure of a nursing student to satisfactorily demonstrate mastery of required knowledge, skills, or abilities can jeopardize the safety or welfare of others. Depending on the nature of the performance that demonstrates the lack of necessary knowledge, skills, or abilities, students may be placed on academic probation or may be subject to academic dismissal prior to the end of the semester.

All City College students, including Nursing students, are subject to the Rules of Student Conduct, and must conform their behavior to appropriate standards, both during theory classes and during clinical experiences at cooperating clinical settings.

Courses Required for the Award of Achievement in Nursing

A. NURSING COURSES

First Semester

Course Units
NURS 50 Fundamentals of Nursing ............... 6
NURS 50B Pharmacology in Nursing Part 1 .......... 2
NURS 50L Nursing Skills Lab ................. 1
HETH 10 Aging ............................. 3

Second Semester

Course Units
NURS 50B Pharmacology in Nursing Part II ........ 2
NURS 51 Basic Med Surgical Nursing .............. 6

Third Semester

Course Units
NURS 53 Maternal and Newborn Care ............. 6
NURS 55 Psychosocial Nursing .................. 6

Fourth Semester

Course Units
NURS 54 Nursing of Children ............... 6
NURS 56 Adv Med & Surg Nursing .......... 6
NURS 58 Trends & Issues in Nursing .......... 1

B. GENERAL EDUCATION COURSES

Course Units
*ANAT 25 Gen Human Anat .................. 4
*PHYS 1 or 12 Human Physiology ............ 4
*M 12 Intro to Microbiology ............ 4
*ENGL 1A, 94, or 96, or ESL 82 Read & Comp, Inter or Adv. Inter Reading and Comp or Adv Comp ................. 3
*PSYC 1 Gen Psychology ................ 3
*SOC 1 Intro Sociology .................. 3
*SPCH 1A, 4, 11, 12, or ESL 79 Elem of Publ Speak or Group Discuss ......................... 3

*These courses meet the California Board of Registered Nursing requirement for licensure and must be completed with a grade of C or higher prior to taking the R.N. Licensure Examination (NCLEX-RN).

In addition to the above, students must also complete General Education courses in Humanities (Area E), U.S. History and Government (Area F), Physical Skills and Health Knowledge (Area G), and Ethnic/Women's/Gay and Lesbian Studies (Area H).

Please see the course descriptions for Nursing and general education courses in other parts of this catalog.

Board of Registered Nursing. All students should familiarize themselves with all requirements for taking the NCLEX-RN. Completion of the Nursing Department curriculum does not guarantee passage of the NCLEX-RN or eligibility for a California State RN license.

Nursing, Registered (RN) Announcement of Courses

CREDIT, DEGREE APPLICABLE COURSES:

NURS 50. Fundamentals of Nursing (6)
Lec-3, lab-18
Prereq.: Admission to the RN Nursing Program with successful completion of all Prerequisites listed on the Application and in the Catalog
Introduction to nursing fundamentals, principles of care common to all patients, and basic medical-surgical concepts with application of theory and practice of skills in the clinical area. This course lays the foundation for successive nursing courses. The clinical experience is designed to be concurrent with theory. CSU
NURS 50A. Pharmacology in Nursing Part I (2)
Lec-2
Coreq.: NURS 50
Provides an overview of drug classification and then a focus on specific drug therapies related to the integumentary, endocrine, and central nervous systems, sensory organ inflammation, immunity and cancer. Emphasis on nursing implications of drugs, i.e. administration, pharmacologic effects, clinical uses and adverse effects. CSU

NURS 50B. Pharmacology in Nursing Part II (2)
Lec-2
Coreq.: NURS 51
Focuses on specific drugs used in the management of cardiovascular, respiratory, gastrointestinal, neurological, urinary, reproductive, psychiatric and peripheral nervous system disorder. Emphasis on nursing implications of drugs, i.e. administration, pharmacologic effects, clinical uses, and adverse effects. CSU

NURS 50L. Nursing Skills Laboratory (1)
Lab-3
Coreq.: NURS 50
CR/NC only
Designed to assist students in the development of psychomotor and cognitive skills involved in the performance of selected nursing procedures. The use of the modular approach provides an opportunity for the student to work independently and/or in small groups. CSU

NURS 51. Basic Medical-Surgical Nursing (6)
Lec-3, lab-18
Prereq.: NURS 50, 50L, and 50A
Coreq.: NURS 50B
Designed to acquaint students with individuals experiencing dysfunction of the cardiac, vascular, respiratory, digestive, liver pancreas, biliary tract, kidney, urinary tract and male reproductive organs. Emphasis on nursing process and integrating principles of nutrition, pharmacology, pathophysiology, psychosocial and biological sciences. Students are assigned to care for patients in acute and nursing home units at the Veteran Administration Medical Center, San Francisco, and at Kaiser Hospital, South San Francisco. CSU

NURS 53. Maternal and Newborn Care (6)
Lec-6, lab-18 (8/9 wks)
Prereq.: NURS 51
NURS 53 and 55 are half-semester courses required in the third semester of students enrolled in the curriculum in Nursing. The sequence in which students will take these courses will be determined by the Nursing Department.
Principles of and practices in maternal health and care of the newborn. Covers the complete maternity cycle and the growth and development of the newborn from the embryonic stage to neonatal life. Nursing experience in the cooperating hospitals augmented by observations in clinics and community agencies contributing to the welfare of mothers and children. CSU

NURS 54. Nursing of Children (6)
Lec-6, lab-18 (8/9 wks)
Prereq.: NURS 53, 55 (and 56 if taken first in the sequence of fourth semester Nursing courses)
NURS 54 and 56 are half-semester courses required in the fourth semester of students enrolled in the curriculum in Nursing. The sequence in which students will take these courses will be determined by the Nursing Department.
Developmental and physical process of children from birth through adolescence. Health maintenance needs of children, prevention, and treatment of common disease conditions and injuries that affect children. Clinical experience is designed to be concurrent with theory and will incorporate the preschool, elementary school, hospital inpatient, home care, and outpatient settings. CSU

NURS 55. Psychosocial Nursing (6)
Lec-6, lab-18 (8/9 wks)
Prereq.: NURS 51
NURS 55 and 53 are half-semester courses required in the third semester of students enrolled in the curriculum in Nursing. The sequence in which students will take these courses will be determined by the Nursing Department.
The study and investigation of the etiology, dynamics, nursing care and therapeutic modalities for persons with psychological dysfunctions, and the understanding of mental health in relation to patient education, growth and development. Emphasis is placed on the interpersonal and problem-solving processes used in the care of all patients. CSU

NURS 56. Advanced Medical-Surgical Nursing (6)
Lec-6, lab-18 (8/9 wks)
Prereq.: NURS 51 and 55 (and 54 if taken first in the sequence of fourth semester Nursing Courses)
NURS 56 and 54 are half-semester courses required in the fourth semester of students enrolled in the curriculum in Nursing. The sequence in which students will take these courses will be determined by the Nursing Department.
Introduction of advanced theories from nutrition, pharmacology, psychosocial and biological sciences, with the integration of cultural diversity essential to prepare the student nurse to apply the nursing process, utilizing Maslow's Hierarchy of Needs theory to provide care for the adult patient experiencing major health alterations in the acute care settings and community environments. Care of the older adult in acute and non-acute care settings. Emphasis on the application of leadership and management theory to clinical practice. Instruction is augmented by supervised clinical experience in cooperating hospitals and selected agencies. CSU

NURS 58. Trends and Issues in Nursing (1)
Lec-1
CR/NC only
Coreq.: Enrollment in the RN Program; NURS 54 or 56
The historical and present trends and issues in nursing. The legal and ethical aspects of nursing and an introduction to the responsibilities of the new graduate nurse. CSU
Nursing, Licensed Vocational (LVN)
The programs offered in this department include credit courses with certificates issued in Home Health Aide/Nurse Assistant and Vocational Nursing. Additionally, a noncredit course with a certificate issued is Geriatric Home Aide. A variety of courses for care of the elderly may be taken for certified nursing assistant and home health aide continuing education credit.

Announcement of Curricula

Home Health Aide/Nurse Assistant (CNA)
Graduates of this 18 week full time program will be highly qualified for entry level positions as health care providers. They are qualified for positions in acute care and convalescent facilities as well as home care agencies and out-patient clinics. Critical thinking concepts and principles will serve as a framework for studying the nursing and behavioral sciences within a health promotion/risk reduction, multicultural based curriculum.

Program Authorization: This program is approved by the California State Department of Health Services. Successful completion qualifies the graduate to: 1) take the Nurse Assistant Competency Examination to obtain State Certification for practice; 2) obtain Home Health Aide Certification without further examination.

NOTE: The Department of Health Services, Nurse Assistant Certification Division requires fingerprinting and disclosure of misdemeanor and felony convictions for all applicants.

Enrollment Procedure: Applicants must take a placement test, attend a program orientation, and meet all program prerequisites. Enrollees must be in good physical and mental health and be over 18 years of age.

Admission Requirements:
1. Recommended placement in ENGL 92 or ESL 82, or successful completion of ENGL 90 or ESL 72 with a grade of “C” or higher.
2. Business Math G, H, or J
3. A physical examination
4. Immunizations: Hepatitis B, Rubella, Varicella, Mumps, and T.B.
5. Current CPR certification
6. Department of Health Services Applications ($15 Fee)
7. DHS Application for Criminal Background Check ($32 Fee)

Requirements for a Certificate of Completion: Successful completion of the following courses require an average final grade of “C” or higher (2.00 grade point average) to qualify for a Certificate of Completion.

Course Units
VOCN 20 Fundamentals/Home Health Aide ............ 6
VOCN 21 Nurse Assistant/Convalescent .............. 3
VOCN 22 Nurse Assistant/Acute Care ............... 3
VOCN 23 Nurse Assistant: Convalescent Care ...... 6
VOCN 24 Home Health Aide ......................... 3

Vocational Nursing Certificate Curriculum
The program of study for the certificate of completion in Vocational Nursing is designed to prepare students for employment in acute care facilities, clinics, long-term care facilities, physician offices, home care, and health centers.

Admission. Enrollment is open to all interested students who are in good physical and mental health, and over 17 years of age.

TO BE ADMITTED TO THE CURRICULUM APPLICANTS MUST:
1. Be graduates of an accredited high school or have passed the General Education Development Test (G.E.D.) or have passed the High School Proficiency Examination. Course completion of Anatomy, Physiology, Nutrition, and Pharmacology or one year as a nurse assistant preferred. (For the weekend program applicants, anatomy and physiology, nutrition and pharmacology are prerequisites.)
2. File with the Vocational Nursing Department a completed application for admission to City College (for dates, see “Calendar of Instruction”).
3. Apply for admission to the curriculum for the Fall semester between February 15 and May 1, and for the Spring semester, between September 15 to November 15.
4. Take the City College placement tests in English and Mathematics.
5. On the basis of the placement tests and counseling or course work, demonstrate eligibility for ENGL 94 and MATH 840.
6. Applicants must submit official transcripts.
   a. High school transcripts showing proof completion of the 12th grade. Transcripts must be submitted in keeping with the application deadline.
   b. Applicants who are accepted in Vocational Nursing and who wish to receive credit for prior nursing education courses completed.
7. Admission of Certified Nurse Assistant, Board Challenge students transfer.
   a. C.N.A. certificate from the State of California and must have completed a credit granting, college based CNA program are eligible for at least 4 units. Students who qualify and are interested should make an appointment with the department head for additional information and requirements.
   b. Transfer students from other accredited L.V.N. or R.N. programs are accepted in the CSF Vocational Nursing Program. Acceptance is based on equivalent nursing education and availability of space.
   c. Board challenge applicants who need required courses for state boards should contact the vocational nursing office.
   d. Credit may not be given toward satisfying the Vocational Nursing course requirement, for courses completed 5 or more years prior to application for admission.

Credit by Examination. Applicants who qualify for admission into the Vocational Program and who have had health training courses in the military, psychiatric technician and certified nurse assistants graduates from noncredit programs who
wish to receive credit, or advanced placement should contact
the vocational nursing office for additional information. Admis-
sion is based on space available.

Requirements for Certificate of Completion. Students
may obtain the Certificate of Completion in Vocational Nursing
by completing the following courses with a grade of C or higher.

First Semester
Course                                             Units
VOCN 33A Voc Nursing/Pharmacology .................... 3
VOCN 33B Voc Nursing/Nutrition ......................... 3
VOCN 33C Voc Nursing/Basic Skills ....................... 2
VOCN 33D Voc Nursing/Basic Skills Lab ................. 1
VOCN 33E Voc Nursing/Fundamentals .................... 7

Second semester
VOCN 34A Voc Nursing/Anatomy & Physiology ............ 3
VOCN 34B Voc Nursing/Medical Surgical Nursing ....... 6
VOCN 34C Voc Nursing/Maternity Nursing ............... 3
VOCN 34D Voc Nursing/Pediatrics ....................... 3
VOCN 34E Voc Nursing/Skills Laboratory ................. 1
VOCN 34F Voc Nursing/Child Development ............... 1

Third semester
VOCN 35A Psychology/Soc Concepts .................... 2
VOCN 35B Voc Nursing/Advanced Med/Surg ............... 12
VOCN 35C Voc Nursing/Community Health ............... 2
VOCN 35D Voc Nursing/Advanced Skills ................. 1

Geriatric Home Aide
Noncredit Program

Program Goal. The Geriatric Home Aide program has been
designed to prepare students to enter the home care field by
providing job specific training for assistance to elderly persons
in their own homes.

Admission Requirements. Placement test score of 6.0 in
reading and math; good physical and mental health. For more
information call 561-1912.

Length of Program. 4 Weeks, 26 hours per week.

Core Courses                                      Hours/Weeks
VOCN 9981 Geriatric Home Aide (Nutr) ................. 11/4
VOCN 9982 Geriatric Home Aide .......................... 15/4
Total ......................................................... 104

Requirements for Completion. Completion of required
courses with C grade or higher in each course; 95% attendance.

Nursing, Licensed Vocational
Announcement of Courses

CREDIT, DEGREE APPLICABLE COURSES:

VOCN 20. Fundamentals/Home Health Aide (6)
Lec-15, lab-15 (6 wks)
Critical thinking concepts and principles serve as a framework
for studying the nursing and behavioral sciences within a
health promotion/risk reduction, multicultural based curric-
ulum. The laboratory component emphasizes fundamental
nursing skills and procedures essential to meeting the physical,
psychological, and social needs of the hospitalized patient as
well as those of the home bound client. CSU
Qualifies the student for state certification as a Home Health
Aide and meets the prerequisites for the Nursing Assistant.

VOCN 21. Nurse Assistant/Convalescent (3)
Lec-4, lab-20 (6 wks)
Prereq.: VOCN 20, physical examination, and CPR
Certification
Critical thinking concepts and principles serve as a framework
for the application of fundamental nursing skills and proced-
ures essential to meeting the physical, psychological, and
social needs of geriatric and/or the adult patient. A heavy
emphasis is placed upon utilizing: 1) principles of prevention
and rehabilitation; 2) principles of therapeutic communication;
and 3) therapeutic techniques/approaches, in dealing with the
emotionally disturbed or mentally incompetent clients. CSU
Successful completion qualifies the student to sit for the Califor-
nia State Nurse Assistant Testing Examination (Written and
Practical)

VOCN 22. Nurse Assistant/Acute Care (3)
Lec-4, lab-16 (6 wks)
Prereq.: VOCN 21 or a California Certified Nurse Assistant
with one year experience, physical examination, and CPR
Certification
Critical thinking concepts and principles serve as the framework
for the work of advanced nursing skills and procedures
essential to meeting the physical, psychological, and
social needs of the medical/surgical patient. The student will
be introduced to the causes of disease, the body's response to
disease; and the diagnosis, treatment, and prevention of
disease. The nursing process will be utilized to develop: 1) as-
seessment, decision- making, and problem-solving skills; 2)
effective interview techniques; and 3) time management and
prioritizing strategies. CSU

VOCN 23. Nurse Assistant: Convalescent Care (6)
Lec-5, lab-7
Integration of basic nursing concepts and skills the nursing
assistant must master in order to give safe and competent
patient care. Communication and interpersonal skills, infection
control, safety and emergency procedures, promoting patient
independence, patient/resident rights, basic nursing skills,
personal care skills, mental health and social service needs,
care of the cognitively impaired, basic restorative services,
Clinical experience in long term care nursing facilities. CSU
VOCN 24. Home Health Aide (3)
Lec-3 (40 hour State Approved course)
Prereq.: VOCR 23 or a current CA Nurse Assistant Certificate
Duties of the nursing assistant in the home setting including liability, safety, infection control, housekeeping chores, food
management, laundry, and record keeping. Successful comple-
tion leads to State Certification as a Home Health Aide. CSU

VOCN 33A. Vocational Nursing/Pharmacology (3)
Lec-3
Pharmacological principles of patient care with emphasis on
body systems and medication dosage calculation, preparation,
administration and storage. Instruction includes didactic and
laboratory simulations. Fulfills the pharmacology requirements
for the Board of Vocational Nurse and Psychiatric Technician.
CSU

VOCN 33B. Vocational Nursing/Nutrition (3)
Lec-3
Basic concepts of nutrition for Vocational Nurses. Provides
knowledge of normal and therapeutic nutrition to serve as a
basis for decision-making in nursing care. Nutrition is inte-
grated into patient care with emphasis on aspects of disease
prevention. CSU

VOCN 33C. Vocational Nursing/Basic Skills (2)
Lec-1, lab-4
Prepares the student for administering basic patient care in the
hospital setting. The course focuses on the following com-
ponents of Vocational Nursing: medical terminology, basic
nursing skills, effective communication, documentation, report-
ing, and ethics & the law. CSU

VOCN 33D. Vocational Nursing/Basic Skills Lab (1)
Lec-1, lab-2
Prereq.: VOCR 33C
Students will practice, perform and master basic nursing pro-
cedures in the clinical laboratory with supervision. CSU

VOCN 33E. Vocational Nursing/Fundamentals (7)
Lec-5.25, lab-15
Prereq.: VOCR 33C
Coreq.: VOCR 33D
Introduction of Vocational Nursing theory and practice.
Didactic include gerontology and principles of nursing care for
Musculoskeletal and Integumentary systems with an intro-
duction to nursing care of the gastrointestinal system. Clinical
education has both a acute and a chronic care focus. The
content meets the long-term care requirement for State certifi-
cation as a nursing assisting the patient in meeting his basic
needs. CSU

VOCN 34A. Vocational Nursing/Anatomy and
Physiology (3)
Lec-3
Prereq.: VOCR 33A-33E
A study of the structure and function of the human body with
practical applications for the Vocational Nurse. Emphasis
placed on aiding the student in understanding the 10 body
systems utilizing an applied approach. CSU

VOCN 34B. Vocational Nursing/Medical-Surgical (6)
Lec-3, lab-7
Prereq.: VOCR 33A-33E
Individual health care needs of adult patients with gastrointes-
tinal, urinary, reproductive and respiratory disorders. CSU

VOCN 34C. Vocational Nursing/Maternity (3)
Lec-2, lab-5
Prereq.: VOCR 33A-33E
Principles and practice of obstetrical nursing care for voca-
tional nursing. The role of the Vocational Nurse in neonatal,
labor, delivery, prenatal and postpartum care are examined. CSU

VOCN 34D. Vocational Nursing/Pediatrics (3)
Lec-2, lab-4
Prereq.: VOCR 33A-33E
Nursing care of children ages 0-18 years old. Health mainte-
nance, disease prevention and common childhood abnormali-
ties are emphasized. CSU

VOCN 34E. Vocational Nursing/Medical/Surgical Skills
(1)
Lec-1, lab-2
Prereq.: VOCR 33A-33E
Demonstration and return demonstrations of medical/surgical,
pediatric and maternal child health nursing skills. CSU

VOCN 34F. Vocational Nursing/Child Growth and
Development (1)
Lec-1, lab-1, field trips
Prereq.: VOCR 33A-33E
Provides students with didactic growth and development
knowledge from newborn through adolescence. Clinical expe-
rience in pre-school areas. CSU

VOCN 35A. Vocational Nursing/Psych-Social (2)
Lec-2
Prereq.: VOCR 34A-34F
Introduction to principles of psycho-social nursing. CSU

VOCN 35B. Vocational Nursing/Advanced Medical-
Surgical (12)
Lec-4, lab-17
Prereq.: VOCR 34A-34F
Advanced concepts of health care needs of Adult patients with
conditions of the cardiovascular, respiratory and nervous
systems. Patient assessment skills and the application of
nursing process in managing patient needs in the adult
medical/surgical environments. Includes clinical experience in
an acute setting. CSU

VOCN 35C. Vocational Nursing/Community Health (2)
Lec-1, lab-3
Prereq.: VOCR 34A-34E
Introduction to concepts of community health. Includes
clinical experience in community care facilities. CSU

VOCN 35D. Vocational Nursing/Advanced Skills (1)
Lec-1, lab-2
Prereq.: VOCR 34A-34E
Demonstrate proficiency with advanced skills in medical/
surgical nursing. CSU
NONCREDIT COURSES:

VOCN 9120. Care of Developmentally Disabled (21 hrs)
Prepares students to care for developmentally disabled clients living at or in a home. Familiarization with the special needs of developmentally disabled clients. Training in skills at meeting those needs.

VOCN 9174. Care of the Alzheimer Patient (21 hrs)
Prepares students to care for Alzheimer clients and other adults with brain disorders in their homes. Students learn about (1) behavioral changes, (2) how to manage problem behavior, and (3) planning for long term care.

VOCN 9189. Care Of The AIDS Patient (24 hrs)
Prepares certified nursing assistants and other caregivers for provision of appropriate care for AIDS patients in institutional settings, community-based hospices and private homes.

VOCN 9194. Home Health Aide-Theory/Special (120 hrs)
Advises: ESLN 3500 or ABE 2073
Principles of personal care for the adult and geriatric client requiring home care. Emphasis for students re-entering the job market and those with Cantonese/Mandarin bilingual skills. Certification by the State of California upon successful completion of theory and clinical components.

VOCN 9195. Home Health Aide-Clinical/Special (50 hrs)
Advises: ESLN 3800 or ABE 2073
Clinical application of theory prepares the individual to render home care to the adult and geriatric client. Designed for re-entry students and those with Cantonese/Mandarin bilingual skills. Certification by the State of California upon successful completion of theory and clinical components.

VOCN 9200. Licensed Vocational Nurse Refresher (455 hrs)
Prereq.: Eligibility for ENGL 94 or ESL 82; LVN License or RN License
A comprehensive review of the principles and practices of Licensed Vocational Nursing including a State Board Review Program.

VOCN 9981. Geriatric Home Aide (Nutrition) (44 hrs)
Prepares graduates to provide cooking, shopping and cleaning services for ambulatory elderly clients in their own home setting. Includes dietary needs of geriatric and AIDS patients, cultural foods, cooking demonstrations, and safe sanitation practices.

VOCN 9982. Geriatric Home Aide (60 hrs)
Prepares graduates to care for ambulatory elderly clients in their own home setting. Includes the needs of the clientele and the skills necessary to meet these needs. Information essential to secure employment in the home care field.

Older Adults
Announcement of Courses

NONCREDIT COURSES:

General Classes
OLAD 7000. Senior Adventures (90 hrs)
A full-day program of diverse activities that may include lectures, crafts, music, exercise, discussions, service projects, field trips, holiday celebrations, and opportunities to learn various new skills.

OLAD 7006. Understanding Changing Times (36 hrs)
Activities focus on personal, social, political, and wellness issues; field trips may be included.

Health
OLAD 7200. Exercise and Relaxation Techniques (36 hrs)
Some of these classes offer Tai Chi Chuan instruction in the thirty-seven-posture Yang form that promotes relaxation, balance, coordination, and good health. Other classes present modified hatha yoga, body mechanics, back care, breathing, meditation and flexibility exercises.

OLAD 7205. Wellness Exercises (18 hrs)
Moderate exercises designed for either older adults with limited physical abilities or those who are re-introducing themselves into a physical fitness program. The Tai Chi Chuan sections of this class emphasize proper body alignment, stances, and coordination, using the principles of the art to promote relaxation and health.

OLAD 7209. Mind-Body Health (36 hrs)
A discussion and practice class for improving one’s health through an understanding of the impact of thoughts, emotions, and attitudes on the body. Practice sessions involve gentle exercises based on Tai Chi.

OLAD 7210. Medical Options for Older Adults (45 hrs)
A survey of western and alternative medical models incorporating exercises in breathing and stretching and journal keeping, as well as a peer support group. There are guest lecturers in acupuncture, massage, chiropractic, and hypnotherapy. The objective is to enable students to become more active and knowledgeable participants in their own health care.

Personal Enrichment
OLAD 7300. Art for Older Adults (45 hrs)
Open to beginning and advanced students. Using oil paints or watercolors, students will study and work to develop different painting techniques through a series of exercises. Students will receive individual instruction on how to mix colors, work from still life materials, work from landscapes and eventually work from live models. Students provide their own materials.

Oceanography
See Earth Sciences listings
OLAD 7301. Arts and Crafts for Older Adults (45 hrs)
A general survey of arts and crafts with an emphasis on exercises and experiments with methods and materials, including: painting, drawing, color theory, composition rendering, batik, tie-dye, macrame, block printing, ceramics, metal crafts, leather, and weaving.

OLAD 7303. Figure Drawing - Older Adults (54 hrs)
Studio class in drawing the human figure from a live model. For beginners to professionals. Pencil, charcoal, ink, and watercolors. Field trips will be included in the program to study and evaluate other artists' works.

OLAD 7307. Music Appreciation for Older Adults (36 hrs)
Study of and familiarization with the music of western civilization. Students are introduced to a sampling of music from ballets, operas, and symphonies.

OLAD 7309. Theater Appreciation for Older Adults (45 hrs)
Students read plays, attend performances, and develop critical skills in review discussions. The history of theater, elements of dramatic literature, and production techniques.

OLAD 7310. Stitchery for Older Adults (45 hrs)
Patchwork, Hawaiian quilting, trapunto, cross stitch, embroidery stitches. Projects include two pillows, a small quilt, embroidering on a garment, a purse, and construction of a bound book.

OLAD 7313. Art Appreciation - Older Adults (36 hrs)
Introduction to art, painting, and sculpturing from the Lascaux cave paintings to modern day artists. Topics include: biographies and personalities of various artists; different art styles; the basic elements of art; the basic periods of art history and their characteristic styles along with the reasons such styles were developed.

OLAD 7316. Life Sculpture for Older Adults (72 hrs)
Older adults learn sculpture in a supportive studio atmosphere. Students work primarily in clay from a live model. Writing

OLAD 7400. Journal Writing for Older Adults (36 hrs)
Development of writing skills through journal keeping. Students acquire insight and awareness by the practice of writing techniques such as creative exercises, dialogues and monologues, stories, description, dreams, letters, memoirs, and poetry.

OLAD 7401. Writers' Workshop for Older Adults (45 hrs)
Develop writing skills in a peer support group. Students may choose to work on prose and/or poetry and read their work in class. Learning how to respond to writing, guided creative exercises and assignments, sentence and story structure.

OLAD 7402. English - Women's Literature (54 hrs)
Survey of works by and about women, including novels, short stories, essays, biography, and poetry. Development of reading and critical thinking skills. Each semester focuses on either American or international authors.

OLAD 7403. Modern Literature - Older Adults (45 hrs)
Survey of modern literature, including novels, short stories, essays, biography, and poetry. Development of reading and critical thinking skills. Each semester focuses on different cultures and themes.

Computers
OLAD 7501. Introduction to Computers (54 hrs)
An introduction, for older adults, to the basic concepts and techniques of personal computers, presented in an unhurried, non-competitive environment with guided practice. Topics include microcomputer concepts of word processors, spreadsheets, databases, and the Internet, with the opportunity to pursue special projects.

OLAD 7502. The Internet for Older Adults (54 hrs)
Adviser: OLAD 7501
A survey of the concepts and techniques of the Internet, presented in an unhurried, non-competitive environment with guided practice. Students learn how to acquire access to the web, as well as how to use e-mail, surf the web using various browsers, access forums, newsgroups, and chat rooms, conduct research with search engines, and create a web page. Course will concentrate on web sites of particular interest to older adults.

OLAD 7503. Art and Computers - Older Adults (36 hrs)
Adviser: OLAD 7501
An introduction to the concepts and techniques of computer graphics for the beginner, presented in an unhurried, non-competitive environment with guided practice, this course explores basic computer graphics programs designed to produce works similar to those produced in traditional artists' or designers' studios. Strategies for enhancing and manipulating a digital image. Class content includes scanners, color printers, and graphics on the Internet. IBM compatible computers will be used.

Paleontology
See Earth Sciences listings

Philippine Studies
Announcement of Courses

CREDIT, DEGREE APPLICABLE COURSES:

PIST 10. Independent Study (3)
Ind st-15 CR/NC avail.
Independent reading and research in Philippines Studies. The student is required to submit an essay or project on a topic that the instructor has approved in advance. This project must have strong relevancy within the area of Philippine Studies and meets the student's own educational resources and needs. CSU/UC
PHST 20. The Filipino Family (3)
Lec-3
A survey of adaptation to internal and external forces of change that have buffeted and changed the modern Filipino family. Description and analysis of traditional and contemporary Filipino family systems as they respond to the nature and changes within the larger Philippine society and culture. CSU/UC

PHST 30. Philippine Society and Culture Through Film (3)
Lec-3
An examination of Filipino/Philippine films for expressions of various cultural themes and socio-political influences on the Filipino experience; includes: the use and meaning of language for Filipinos, images of Filipinos, interpersonal relations, isolation, sex roles, "The Filipino Dream," immigration, and bicultural alienation. CSU/UC

ANTH 15. Philippine Culture and Society (3)
Lec-3
The development of Philippine culture and the impact of Western civilization on the people: emphasis on the ways of life in Philippine cities and barrios. Tribal cultures. CSU/UC

ASAM 8. Filipino American Community (3)
Lec-3
Description and analysis of Filipino American community problems from a sociological viewpoint. Cultural shock and other problems of adaptation of Filipino immigrants considered in light of the carryover from Filipino culture and psychology. CSU/UC

GLST 50. Gay/Lesbian/Bisexual/Transgender Communities of Color in the U.S. (3)
Lec-3
Examination of the formation of lesbian/gay/bisexual and transgender identities and communities among people of color in the United States. Included are African Americans, Native Americans, Asian Americans, Pacific Islanders, and Chicano/Latinos. CSU/UC

HIST 36. History of Southeast Asia (3)
Lec-3
A survey of the history of southeast Asia, with emphasis on the role of the United States in Southeast Asia. CSU

HIST 37. History of the Philippines (3)
Lec-3
The historical and cultural growth of the Philippines, including the development of national culture, political and social institutions, and foreign relations. CSU/UC

HIST 39. The United States Presence in the Western Pacific Rim: An Introduction (3)
Lec-3
A survey course on the evolution of US interests, expansion and foreign policies in the Western Pacific Rim area, specifically the countries in East Asia and Southeast Asia. CSU/UC

PILIPINO LANGUAGE COURSES:
See Pilipino in this section of the catalog.

POLS 47. Government and Politics of Southeast Asia (3)
Lec-3
A survey of political developments and changes in Southeast Asian states (the Philippines, Indonesia, Malaysia, Thailand, and Singapore) and such other states as Viet Nam, Laos, Cambodia, and Burma. Internal politics and international relations. CSU/UC

PSYC 22. Psychology of Race and Ethnic Relations (3)
Lec-3
CR/NC avail.
Not open to students who are enrolled in or who have completed PSYC 23.
Critical evaluation of the concept of race as a biological, social and cultural construct and examination of psychological aspects of race and ethnic relations. Psychohistorical analysis of the treatment of African Americans, Asian Americans, Mexican/Latino Americans, and Native Americans in the USA. Emphasis on the strengths and unique contributions of these and other groups to the USA. CSU
PHIL 25A. Ancient Philosophy (3)
Lec-3
The origins of the philosophical-scientific tradition. Early attempts at rational explanations of the natural world. Socrates and the foundations of moral criticism. Plato: his articulation of the problems of knowledge, and contributions to moral and political theory. Aristotle: his organization of scientific inquiry, formulation of ethical theory, and development of the science of logic. The philosophic tradition after Aristotle. CSU/UC/CAN

PHIL 25C. Modern Philosophy through Kant (3)
Lec-3
The philosophical tradition from the Renaissance to the nineteenth century. Emphasis on new models of human knowledge and human nature formulated in reaction to scientific and social revolutions. Positions of thinkers such as Descartes, Hume and Kant on basic questions such as "Can anything be known with certainty?", "Are there any justifiable moral principles", "Is there any purpose to existence". CSU/UC/CAN

PHIL 40. Logic: An Introduction to Critical Thinking (3)
Lec-3
CR/NC avail.
A course in practical reasoning. How to distinguish between reasons that are rational and those that are not. Methods of evaluating arguments that will lead to the truth. CSU/UC

PHIL 51-52-53. Selected Topics in Philosophy (1-2-3)
Lec-1,2,3
Repeat: if no topic repeat
Investigation of a broad range of ideas, issues, figures, and movements. CSU

Photography
Announcement of Curricula

General Information
The Program provides conceptual, aesthetic, and practical skills training for the beginning through advanced photography student. An emphasis on technical skills is fundamental to the program. This, along with training in design, aesthetics, and concepts in photographic imagery, produces graduates who can realize their creative aspirations and be competitive in today's job market. The program of study provides a core curriculum of required courses that cover all key areas of commercial and creative photography. Elective classes offer the opportunity for specialized or individualized study and cover a range of traditional and emerging approaches in photography including advanced studio or location lighting; advanced digital imaging, expressive alternatives, and a guest lecture series.
The program is designed to prepare students for a wide range of careers in photography or for transfer to institutions of higher education for advanced study. The practicing photographers on our faculty bring their professional experience, interests, and specializations to the program adding breadth and depth.

**Career Opportunities.** Students in the curriculum in Photography are trained in the major branches of photographic work. Positions for which graduates may qualify, depending upon their interests, abilities, and achievement, include those of industrial, commercial, portrait, illustrative, advertising, freelance, editorial, and public-relations photographer, photographic-laboratory technician; photographic salesperson; and operator of a photographic business. The curriculum includes training in specialized fields such as digital imaging. The course of study requires two years.

**Work Experience Training.** Students majoring in photography may obtain practical experience in the photographic industry by enrolling in a work-experience course. To receive credit, students must work at least ten hours weekly in an approved position. The College helps students in the course find salaried employment. Placement depends upon students’ abilities and records, employers’ requirements, and economic conditions. Students are supervised by both employers and instructors. Students may receive a maximum of four semester units in approved work experience course work.

**Associate of Science Degree and Award of Achievement.** The program is designed so that students may satisfy the requirements for graduation from the College. Students who satisfy these requirements receive the Award of Achievement in Photography if they complete the required program of study with a B minus (2.75 grade-point average) or higher. The program adviser of the Photography Department will help students who desire to plan special programs of study.

**Courses Required for the Award of Achievement in Photography**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHOT 50A or 50B History &amp; Aesthetics of Photo</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PHOT 51 Beginning Black &amp; White Photo</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHOT 53 Photographic Design and Concepts</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>PHOT 150 Photographic Lab</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Additional graduation requirements</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHOT 55 Beginning Color Photography</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHOT 81A Inter Black &amp; White Photo</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHOT 83 View Camera Techniques</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>PHOT 85A Beginning Lighting Techniques</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PHOT 150 Photographic Lab</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Additional graduation requirements</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Semester</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHOT 60A Beginning Computer Imaging</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>PHOT 85B Adv Studio Lighting Techniques</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PHOT 93 Editorial Photography</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>PHOT 95A Beginning Color Printing</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PHOT 150 Photographic Lab</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Additional graduation requirements</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Fourth Semester**

| PHOT 81B Adv. Black and White Darkroom Tech. | 4 |
| PHOT 90 Portraiture | 4 |
| PHOT 99 Business Practices of Photography | 3 |
| PHOT 150 Photographic Lab | 0 |
| Photography elective | 2 |
| Additional graduation requirements | |

**Elective Courses:** In choosing electives, students should take at least two units from the following list of courses. Students should select electives in consultation with their program adviser. PHOT 52, 57, 60B, 82, 86, 89, 95B, 101-104, 117, 118, 130.

**Photography Announcement of Courses**

**Credit, Degree Applicable Courses:**

**PHOT 50A. History and Aesthetics of Photography (4)**

Lec-4, field trips
Illustrated lectures on the achievements of important photographers. Designed to stimulate visual thinking and creative problem solving. Visits to museums, films and slide lectures. CSU/UC

**PHOT 50B. History and Aesthetics of Photography Since 1945 (4)**

Lec-4, field trips
History of photography since 1945, highlighting achievements of important photographers. Designed to stimulate visual thinking and creative problem solving. Topics covered are: avant garde, surrealism, symbolism, fictional photographers, structuralists, post-modernism, pop art, current uses of landscape images, contemporary color, and photography's interactions with modern painting, video, performance and computer. Visits to museums and galleries. CSU/UC

**PHOT 51. Beginning Black & White Photography (3)**

Lec-3, lab-3, field trips
A basic course introducing black and white photography and processing practices. Introduction to the small format cameras (35 mm), exposure calculations, negative processing, enlarging and mounting techniques. Topics covered include camera filters and black and white films, night photography, flash usage, elementary lighting, and introduction to the aesthetics of photography. CSU/UC/CAN

**PHOT 52. Photographers and Their Images (1)**

Lec-1
Repeat: max. 2 units
Professional photographers present and discuss their work in both technical and aesthetic terms. This is a unique opportunity for photography students to meet world renowned photographers and discuss topics in a question and answer format. CSU

**PHOT 53. Photographic Design and Concepts (2)**

Lec-3, lab-1, field trips
Prereq.: PHOT 51 or demonstration of exit skills
Design and concept elements necessary for the formulation of photographic images; communication and expression of photographic ideas; exploration of conceptual and formal design of photography. CSU
PHOT 55. Beginning Color Photography (3)
Lec-3, field trips CR/NC avail.
Prereq.: Completion/concurrent enrollment in PHOT 51
Advice: Completion/concurrent enrollment in PHOT 53
Basic principles of photographing with slide film; special
demands of color technique; color relationships; light qualities;
kinds of films; class demonstrations; critiques of color trans-
parencies. CSU

PHOT 57. Photography and Multimedia (3)
Lec-3, lab-1 CR/NC avail.
Prereq.: PHOT 51 and IDST 120
Coreq.: IDST 130
Introduction to the role of photography in multimedia. Begin-
ning digital imaging, image acquisition, and the production
process. Emphasis on the application of these skills integrated
with other digital media. Using these techniques, students will
explore conceptually the use of photographic images in multi-
media. Includes lab assignments and demonstrations of
hardware and software necessary for the contemporary photog-
rapher to succeed in the electronic age. CSU

PHOT 60A. Beginning Computer Imaging (2)
Lec-2, lab-1, field trips CR/NC avail.
Prereq.: GRPH 25 or CIS 100M or demonstration of
equivalent Macintosh computer skills
Advice: PHOT 51
A beginning level lecture/lab course introducing students to
the field of computerized electronic imaging. Emphasis on the
technical aspects of digital photography including demonstra-
tion of the software and hardware necessary for a photog-
rapher to succeed in the contemporary photographic market-
place. Students will complete lab exercises in class as well as
assignments to be completed outside of class time. CSU

PHOT 60B. Advanced Computer Imaging (3)
Lec-2, lab-3, field trips CR/NC avail.
Prereq.: PHOT 60A
Advice: GRPH 21 or PHOT 55
An advanced level lecture/lab course for students to expand
their capabilities in computerized electronic imaging. Emphasis
on the advanced techniques in the manipulation, alteration
and enhancement of digital photography. In-depth exploration
of the digital photograph will provide students with skills to
create their own expressive images and explore the various
electronic methods of output. Students will integrate the tech-
nical resources which are available to them in preparation for a
rapidly changing field. Students will complete lab exercises in
class. CSU

PHOT 81A. Intermediate Black and White
Photography (3)
Lec-3, lab-3, field trips CR/NC avail.
Prereq.: PHOT 51 or demonstration of exit skills
Advice: PHOT 53
Emphasis on black and white exposure control and darkroom
technique using small and medium format cameras. Includes
camera filters, push processing, more advanced darkroom
controls, greater speed and responsiveness to subject matter,
and a deeper understanding of photographic theory and its
application. CSU

PHOT 81B. Advanced Black and White Darkroom
Techniques (4)
Lec-3, lab-3, field trips CR/NC avail.
Prereq.: PHOT 81A or demonstration of exit skills
Repeat: max. 8 units
An intensive exploration of the controls and materials of the
black and white photographic process. Emphasis on fine
printing, optimization of the negative and archival processing
procedures, and an analysis of films, papers and developer
combinations. CSU

PHOT 82. Zone System Techniques (3)
Lec-2, lab-4, field trips CR/NC avail.
Prereq.: PHOT 81A or demonstration of exit skills
Repeat: max. 6 units
An exploration of the Photographic Zone System through use
of special light metering, processing, and fine printing tech-
niques. A study of the integration of aesthetics, calibration of
camera and exposure meter to film, calibration of film to pho-
tographic printing papers, development of film for specific
lighting conditions, printing and other techniques associated
with the Photographic Zone System required for assignments.
The production of a fine portfolio of images using the Zone
System for presentation to clients or galleries and museums. CSU

PHOT 83. View Camera Techniques (2)
Lec-2, lab-1, field trips CR/NC avail.
Prereq.: PHOT 51 or demonstration of exit skills
An exploration of the 4x5 view camera through hands-on expe-
rience. Investigation of perspective control, camera move-
ments, film, processing, and printing as applied to studio, archi-
tectural and fine art photography. The department will provide
students with 4x5 cameras. CSU

PHOT 85A. Beginning Lighting Techniques (4)
Lec-3, lab-3, field trips CR/NC avail.
Prereq.: PHOT 51 or demonstration of exit skills
Advice: PHOT 53, 55, and 83 (concur.)
Through demonstration and hands-on experience students
explore the basic and technical use of ambient, tungsten
and electronic flash illumination as it is used with color and black
and white film. Students will work with a variety of lighting
equipment and accessories. CSU

PHOT 85B. Advanced Studio Lighting Techniques (4)
Lec-4, lab-2, field trips
Prereq.: PHOT 55 and 85A or demonstration of exit skills
Advice: PHOT 83
Advanced lighting techniques with an emphasis on electronic
strobe and mixed lighting techniques as used in advertising
and product photography. Emphasis on client-photographer re-
lationships, solving photographic problems imaginatively, and
building a quality portfolio. CSU
PHOT 86. Mixed Media and the Photographic Image (3)
Lec-2, lab-3, field trips CR/NC avail.
Prereq.: PHOT 81A or demonstration of exit skills
Advise: PHOT 53
Repeat: max. 6 units
An exploration of the photographic image, exposing students to the concept of manipulation of the original to reveal forms of expression which are unattainable through straight photography. Emphasis will be given not only to established nonsilver processes, but also to the integration of more contemporary mediums. CSU

PHOT 89. Large Format Transparency (3)
Lec-1, lab-3
Prereq.: PHOT 83 and 85A or demonstration of exit skills
Advise: PHOT 55
Repeat: max. 6 units
An advanced, large format transparency (4x5) course with emphasis on color principles carried to further refinement and practical applications in studio and location photography. Special emphasis on product, interior and exterior photography, solving mixed lighting problems, utilization of special effects, and the building of a professional portfolio for job applications and presentations. CSU

PHOT 90. Portraiture (4)
Lec-3, lab-3 CR/NC avail.
Prereq.: PHOT 85A or demonstration of PHOT 85A exit skills
Advise: PHOT 83
Introduction to photographing people utilizing tungsten, strobe, and daylight, with an emphasis on creating as well as interpreting the personality. Use of multiple lighting techniques in the studio and on location. Working successfully with subjects. Analysis and application of lighting techniques for social portraiture, including wedding, school, yearbook, family, and executive portraiture. CSU

PHOT 93. Editorial Photography (2)
Lec-2, lab-1, field trips CR/NC avail.
Prereq.: PHOT 81A or demonstration of PHOT 81A exit skills
Techniques leading to a creative treatment of typical editorial assignments, including use of several format cameras, variable lenses, multiple electronic flash and typical effects essential to quality storytelling pictures. Students produce a portfolio including feature news, publicity, public relations, and feature story photographs. CSU

PHOT 95A. Beginning Color Printing (4)
Lec-3, lab-3, field trips CR/NC avail.
Prereq.: PHOT 55 or demonstration of exit skills
Exploration of color negative printing through an understanding of exposure, color films and papers, processing, color temperature and color theory. Sensitometry and densitometry as they apply to color negative printing. Emphasis on the aesthetics of color photography. CSU

PHOT 95B. Intermediate Color Printing (4)
Lec-3, lab-3 CR/NC avail.
Prereq.: PHOT 95A or demonstration of exit skills
Repeat: max. 8 units
Refinement of techniques learned in PHOT 95A emphasizing professional color output. Students produce color prints from color transparencies, negatives and internegatives. Methods include masking techniques when necessary. Explorative techniques such as combination printing, instant print material, collage, and painting with light. A specific color project will be completed that should be of the quality to be included in the students' portfolio for employment. CSU

PHOT 99. Business Practices of Photography (3)
Lec-3 CR/NC avail.
A course for both commercial and fine art photographers who want to run successful businesses. Topics include writing a business plan, marketing and self-promotion, freelance skills, using computers, legal issues, pricing and estimating, taxes, insurance, and copyright. CSU

PHOT 101-102-103-104. Selected Topics in Photography (1-2-3-4)
Lec-1,2,3,4 and/or lab-2,3,6, field trips CR/NC avail.
Prereq.: as required for Topic
Selected topics in photography will be explored through lectures, laboratory or studio demonstrations and exercises, field trips, class discussions, film, video, and/or television leading to a critical analysis and/or practical understanding and application of the topic or skill set under consideration. CSU

PHOT 102A. Basic Architectural Photography
PHOT 102B. Documentary/News Photography

PHOT 117A. Photographic Work Experience (2)
Conf-1, work-10
Repeat: max. 8 units
Work experience is supervised off-campus work in photography or closely allied fields. Students can be employed in any area including but not limited to laboratory technicians, camera operators, or salespersons. These include, but are not limited to newspaper internships, assistant internships, museum internships, gallery internships, and laboratory printing internships. CSU

PHOT 117B. Internship and Work Experience (2)
Conf-1, work-10
Repeat: max. 8 units
Work experience and internships are supervised off-campus work in photography or closely allied fields. Work experience students will supply their own employment. Internship positions are supplied by the photography department when possible to students who have the required skills. CSU

PHOT 118. Independent Study (2)
Ind st-10 CR/NC avail.
Prereq.: PHOT 85B and either 81B or 95A or demonstration of exit skills
Repeat: max. 4 units
Work on an independent photographic project having significant learning value in photography and acceptable to both the student and the instructor. Projects may be in photographic research, photographic criticism, computer imagery, or any other photographic performance area. CSU
PHOT 130. Portfolio Production (2)
Lec-2 CR/NC avail.
Prereq.: PHOT 93, 81B or 95A, 85B or 90 or demonstration of exit skills
Repeat: max. 4 units
Student production of a professional portfolio that can be used for job applications. The student is advised by the instructor while producing photographs, professionally mounted, which demonstrate depth in a particular area of interest and/or proficiency in several areas of professional photography. GSU

PHOT 150. Photographic Laboratory (0)
Coreq.: Enrollment in a Laboratory course in Photography
An open laboratory in which students may complete their photographic assignments. GSU

Physical Education and Dance
Announcement of Curricula

Certificate in Dance
The curriculum for the Dance Certificate will allow students to develop the skills required to pursue careers in dance performance and dance education.

The Dance Department provides studies including history and theory, choreography, and technique and performance with emphasis on modern, ballet, and jazz dance technique. Supporting technique course work is offered in Yoga and dance conditioning. Additional electives include anatomy, health science, community internships, stage production, and music appreciation.

Requirements for the Certification of Completion.
The certificate requires completion of 17 units, which can be completed in two semesters. Each course must be completed with a final grade of C or higher or credit.

Courses in Workshop and Theory (7 units)
Course Units
P E 3 Dance Composition ................................. 3
P E 30 Dance History - Western Culture ............ 3
P E 564 Dance Conditioning ............................ 1

Required Electives (4 units)
ANAT 14 Intro to Human Anat & Physiology ...... 4
TH A 200 Theatre Production .......................... 3
TH A 101 Beginning Acting ............................ 3
TH A 1 Introduction to Theatre ......................... 3
MUS 4 Music Fundamentals ............................ 2
P E 567 Dance Aerobics ................................. 1
P E 554A-B Yoga ........................................ 1-1

Option 1 - Classical Dance Performance Technique (4 units)
P E 523A-B Jazz Dance .................................. 1-1
P E 526B-C Modern Dance ............................. 1-1
P E 626B Intensive Modern Dance .................. 1
P E 504B-C Ballet ......................................... 1-2
P E 604B Intensive Ballet ................................ 2
P E 569 Pointe Technique ............................... 1
One unit from Option 2 or 3 ........................... 1

Performance and Production (2 units)
P E 17A-B Dance Production ............................ 1-2
P E 18A-B Dance Repertory ............................. 1-2

Option 2 - African Heritage Performance Technique (4 units)
P E 523A-B Jazz Dance .................................. 1-1
P E 500A-B African Haitian Dance .................. 1-1
P E 541A-B Tap Dance .................................. 1-1
P E 573A-B Hip-Hop Dance ............................. 1-1
One unit from option 1 or 3 ......................... 1

Performance and Production (2 units)
P E 17A-B Dance Production ............................ 1-2
P E 18A-B Dance Repertory ............................. 1-2

Option 3 - Social Dance Performance Technique (4 units)
P E 518A-B International Folk Dance ................. 1-1
P E 535A-B Ballroom Dance ............................ 1-1
P E 560A-B Latin American Social Folk Dance .... 1-1
P E 570A Swing Dance Forms .......................... 1
One unit from option 1 or 3 ......................... 1

Performance and Production (2 units)
P E 5A-B Folk Dance Production ......................... 1-2
P E 25A-B Ballroom Dance Prod & Comp ........... 1-2

Physical Education and Dance
Announcement of Courses

The following physical education courses are activity courses:
3, 4, 5, and all courses 400 through 599.

CREDIT, DEGREE APPLICABLE COURSES:

P E 3. Dance Composition (3)
Lab-10 CR/NC avail.
Repeat: max. 9 units
A dance class that expands and explores movement techniques. Improvisation and choreographic structures are presented for student study. Culminates with a studio demonstration or theatre performance. CSU/UC

P E 4. Basic Movement (2)
Lec-1, lab-3 CR/NC avail.
Repeat: max. 8 units
Defines general movement vocabulary and employs movement studies that develop skills needed for successful participation in physical activities, particularly dance. CSU/UC

P E 5A-5B-5C. Folk Dance Production (1-2-3)
Lab-2, 4, 6 CR/NC only
Repeat: combination max. 3 times
Courses may be taken in any sequence.
Performance of intermediate-advanced level folk dance arrangements for theatrical production. CSU/UC
P E 6. Prevention and Care of Athletic Injuries (3)
Lec-2, lab-2 CR/NC avail.
Introduces injuries commonly experienced by competitive athletes, discusses conditioning and evaluation methods used to identify and prevent injuries, and the basic management approaches used to treat injuries. Includes clinical experience and laboratory learning. CSU/UC

P E 7. Coaching and Officiating (3)
Lab-3 CR/NC avail.
Develops and augments student's knowledge of coaching and officiating in three selected sports. CSU/UC

P E 8. Introduction to Fitness, Training and Human Performance (3)
Lec-3
Overview of fitness, fitness assessment, training and human performance, including cellular adaptations to exercise, the physiological basis and scope of training, principles of training and training factors, components of training, training states, recovery methods and philosophy of training. CSU

P E 9A. Fit or Fat: Exercise and Diet (2)
Lec-2 CR/NC avail.
Comparison of obesity theories, current weight loss methods and associated technology. Determine and track change in fitness levels, plan a fitness program, and participate in a variety of exercises to promote an active lifestyle, emphasizing weight loss. CSU

P E 10. Appreciation and Analysis of Individual and Team Sports (2)
Lec-2 CR/NC avail.
Emphasis on systems of play, strategy, rules, training programs, organizational procedures, and background for both spectators and participants. CSU/UC
10A. Aquatics - sp
10B. Baseball - sp
10C. Basketball - fa
10D. Football - fa
10E. Individual sports; badminton, bowling, fencing, golf, and tennis - sp
10F. Soccer - fa
10G. Track and Field - sp

P E 11. Analysis of Fastpitch Softball (2)
Lec-1, lab-3 CR/NC avail.
Repeat: max. 8 units
Demonstrates and analyzes the individual offensive and defensive skills required in fastpitch softball, as well as identifying offensive and defensive team strategies necessary for successful game play. CSU

P E 12. Folk, Ballroom, and Square Dance Activities Analysis (2)
Lec-2 CR/NC avail.
Advis: P E 518A and/or P E 535A
Repeat: max. 8 units
Analysis and performance of past and present ballroom, folk and square dances. Dance notations and directions will be compiled and employed. CSU/UC

P E 13. Sport and Society (3)
Lec-3
An introduction to the sociology of sport, to discuss and analyze issues about sports as a part of society. The history of sport, competition, children's programs, deviance, aggression, coaches in the sport experience, gender, ethnicity, social mobility, the economy, the media, and politics in sports. CSU

P E 17A-17B-17C. Dance Production (1-2-3)
Lab-2,5,7 CR/NC only
Repeat: combination max. 3 times
Courses may be taken in any sequence.
Participation in theatre disciplines such as lighting, sound, stage management, set design and costuming; development of choreographing and performing skills to be used in a theatre or studio dance production. CSU/UC

P E 18A-18B-18C. CCSF Repertory Dance Company (1-2-3)
Lab-3,6,9, field trips CR/NC avail.
Repeat: combination max. 3 times
This course is designed as a touring dance company. Students will learn dance works from faculty and guest choreographers. Touring venues include CCSF, San Francisco high schools, San Francisco Bay Area colleges, local theatres, and public events. Includes workshops on performance techniques and lectures on choreographic theory. CSU/UC

Lab-3,6,9 CR/NC only
Advise: PE 535B
Repeat: combination max. 3 times
Courses may be taken in any sequence.
Performance of past and present ballroom dance choreographies in a theatrical or competitive setting. CSU/UC

P E 30. Dance History - Western Culture (3)
Lec-3 CR/NC avail.
Lectures, readings, films and discussions on theory and development of dance from its evolution in anthropological sources to 20th century contemporary dance. This survey history course will touch on the historical basis of dance and will emphasize the history of classical ballet, American/European modern dance, African-Haitian dance and the American idioms of tap and jazz. CSU/UC

P E 50A. Fitness Center Super Circuit (2)
Lab-4 CR/NC only
Repeat: max. 8 units
The super circuit located in the Fitness/Wellness Center utilizes an interactive fitness network system providing feedback to the user with an emphasis on proper use of free weights, strength equipment and interval training (use of the stair master, treadmill and life cycle) and individualized fitness programs to promote strength, muscle toning and cardiac fitness. CSU/UC

P E 70. Intramural Competition (0)
Competition in individual and team sports under game conditions; emphasis on coeducational participation. Students may compete individually or as members of teams representing clubs or special interest groups, but always subject to supervision and to the approval of the instructor. CSU
Intercollegiate Athletics for Men (3)
Lab-10  CR/NC avail.
Prereq.: Athletic clearance (eligible by rules of the CACC and medical clearance verified by a physician).
Repeat: max. 12 units Course numbers, activities and semesters as indicated below
Instruction for competition and participation in the Coast Conference of the California Association of Community Colleges (CACC). CSU/UC

P E 400. Baseball sp
P E 401. Basketball fa, sp
P E 402. Cross-country fa
P E 403. Football fa
P E 405. Soccer fa
P E 407. Tennis sp
P E 408. Track and Field sp

P E 504B. Intermediate Ballet (1)
Lab-2  CR/NC avail.
Repeat: P E 504A-504B-504C combination max. 3 times
A continuation of the theory and practice of classical ballet with an emphasis on intermediate ballet technique and vocabulary. Application of intermediate ballet vocabulary at the barre and in center practice. CSU/UC

P E 504C. Advanced Ballet (2)
Lab-4  CR/NC avail.
Repeat: P E 504A-504B-504C combination max. 3 times
A continuation of the theory and practice of classical ballet with an emphasis on advanced ballet technique and vocabulary. Application of advanced ballet vocabulary at the barre and in center practice. CSU/UC

P E 505A-505B-505C. Baseball (1-1-1)
Lab-2  CR/NC avail.
Repeat: combination max. 4 units
Beginning, intermediate and advanced baseball. Analysis and practice of the fundamental skills, techniques, and theories of baseball through active participation. Lessons and drills designed to improve and increase awareness of the skills involved in playing baseball. CSU/UC

P E 506A-506B-506C. Basketball (1-1-1)
Lab-2  CR/NC avail.
Repeat: combination max. 4 units
Beginning, intermediate, and advanced basketball; emphasis on skill, agility, body conditioning and endurance. CSU/UC

P E 509. Body Building (1)
Lab-2  CR/NC avail.
Repeat: max. 4 units
Physical development and muscle toning through weight training. CSU/UC

P E 512. Corrective Physical Education (1)
Lab-2  CR/NC avail.
Repeat: max. 4 units
An adaptive exercise class designed to meet specific rehabilitative needs for people with chronic or temporary disabilities, especially those with muscular/skeletal and/or mild/moderate neurological conditions. Body awareness and conditioning techniques are presented to improve body alignment, increase muscle strength and flexibility, and release muscular tension. CSU/UC

P E 513A-513B-513C. Fencing (1-1-1) fa
Lab-2
Repeat: combination max. 4 units
Beginning, intermediate, and advanced fencing; emphasis on bouting, judging, directing, scoring, parries, ripostes, and fencing with electrical equipment. CSU/UC

P E 518A-518B International Folk Dance (1-1)
Lab-2  CR/NC avail.
Repeat: combination max. 4 units
In 518A, performance of beginning partner and non-partner folk dances from around the world; 518B continues with intermediate level material. CSU/UC
P E 519A-519B-519C. Football (1-1-1)
Lab-2 CR/NC avail.
Repeat: combination max. 4 units
Introduces the fundamentals of touch football, emphasizes skills, ability, conditioning, endurance, technique, schematics and emphasizes drills which will augment the teaching of technical skills. CSU/UC

P E 520A-520B-520C. Golf (1-1-1)
Lab-2 CR/NC avail.
Repeat: combination max. 4 units
Beginning, intermediate, and advanced golf. Demonstrates basic skills needed to play a round of golf; emphasizes principles of the full swing, the chip, the putt, basic rules of play, golf etiquette and golf terminology. CSU/UC

P E 523A-523B-523C. Jazz Dance (1-1-1)
Lab-2 CR/NC avail.
Repeat: combination max. 4 units
Beginning, intermediate, and advanced jazz dance techniques, patterns, routines, choreography, and improvisation. CSU/UC

P E 524A-524B-524C. Judo (1-1-1)
Lab-2 CR/NC avail.
Repeat: combination max. 4 units
Beginning, intermediate, and advanced judo. Instruction and practice in the basic skills of the sport of Judo. Terminology, etiquette along with throwing and grappling techniques, with integration of various Katas (forms) and Randori (free exercise). CSU/UC

P E 525. Lifeguard Training (1)
Lab-2 CR/NC avail.
Prereq.: P E 540C or demonstration of P E 540C exit skills
Repeat: max. 4 units
Training in life guarding (no beach) situations; recognizing and preventing life threatening situations. American Red Cross Life Guarding Certificate granted upon successful completion. CSU/UC

P E 526A-526B-526C. Modern Dance (1-1-2)
Lab-2 CR/NC avail.
Advisory for P E 526B: P E 526A
Advisory for P E 526C: P E 526B
Repeat: combination max. 3 times
Beginning, intermediate and advanced dance techniques. Emphasis on body movement through modern dance, improving alignment, muscular endurance, flexibility, coordination, musicality, performance technique, and dance vocabulary appropriate to training. Includes improvisation and choreography. Techniques explored: Graham, Hawkins, Cunningham, Limon, Horton, and Dunham. CSU/UC

P E 527A-527B-527C. Physical Fitness (1-1-1)
Lab-2 CR/NC avail.
Repeat: max. combination 4 units
Physical fitness classes at all levels are scheduled to help students fit a vigorous and satisfying period of exercise into a pattern for future use. The aim is to help students gain insight into their own personal aptitudes and abilities and also motivate students to explore their own range of movement in terms of agility, flexibility, strength, and endurance. CSU/UC

P E 528. Running and Conditioning (1)
Lab-2 CR/NC avail.
Repeat: max. 4 units
Principles and practices of conditioning the body with emphasis on aerobic (cardiovascular) fitness by increasing endurance through running, increasing the body's range of motion through stretching and flexibility activities. CSU/UC

P E 529. Saber Fencing (1) sp
Lab-2 CR/NC avail.
Repeat: max. 4 units
An entry-level course that surveys the sport of saber fencing, the general rules and regulations for governing a bout. CSU/UC

P E 530A-530B-530C. Self Defense (1-1-1)
Lab-2 CR/NC avail.
Repeat: combination max. 4 units
Beginning, intermediate, and advanced methods of self-defense. Instruction and practice in the basic techniques of anticipation, avoiding, and when necessary, protecting oneself from attack. Emphasis is on the avoidance of physical confrontation and the discouragement of an attack. CSU/UC

P E 534A-534B-534C. Soccer (1-1-1)
Lab-2 CR/NC avail.
Repeat: combination max. 4 units
Beginning, intermediate, and advanced soccer. Emphasis on systems of play, strategy, rules, and training program. CSU/UC

P E 535A-535B. Ballroom Dance (1-1)
Lab-2 CR/NC avail.
Repeat: combination max. 4 units
Beginning and intermediate ballroom dance; emphasis on step patterns and dance positions for a complete range of dances. CSU/UC

P E 536. Softball (1)
Lab-2 CR/NC avail.
Repeat: max. 4 units
Fundamentals of elementary softball; emphasis on development of team offense and defense. CSU/UC

P E 540A-540B-540C. Swimming (1-1-1)
Lab-2 CR/NC avail.
Repeat: combination max. 4 units
Beginning, intermediate, and advanced skills of swimming. Emphasis on the progression from the basics of water maneuvering to more advanced swimming techniques. CSU/UC

P E 541A. Beginning Tap Dance (1)
Lab-2 CR/NC avail.
Repeat: max. 4 units
Introduces the elements of tap vocabulary, explores technique through performance of rhythmic patterns and briefly reviews the history of tap. CSU/UC

P E 541B. Intermediate Tap Dance (1)
Lab-2 CR/NC avail.
Repeat: max. 4 units
Develops more complex tap dance skills, based on the refinement of fundamental technique, vocabulary, rhythmic sensibility and knowledge of tap history. CSU/UC
P E 542A-542B-542C. Tennis (1-1-1)
Lab-2
Repeat: combination max. 4 units
CR/NC avail.
Beginning, intermediate, and advanced tennis. Emphasis on rules, etiquette, basic skills, strokes and footwork, scoring, and strategy. CSU/UC

P E 543. Track and Field (1)
Lab-2
Repeat: max. 4 units
CR/NC avail.
Instruction for competition and participation in the coast conference of the California Association of Community Colleges (CACC). CSU/UC

P E 545A-545B-545C. Volleyball (1-1-1)
Lab-2
Repeat: combination max. 4 units
CR/NC avail.
Beginning, intermediate, and advanced volleyball. Emphasis on passing, serving, spiking, and blocking. CSU/UC

P E 549. Karate (1)
Lab-2
Repeat: max. 4 units
CR/NC avail.
Instruction and training in modern sport karate involving recreational and/or competitive applications of the various empty hand systems. Emphasis on the development of self-control, positive human interaction and the redirection and avoidance of aggression. CSU/UC

P E 550. Self Defense For Women (1)
Lab-2
Repeat: max. 4 units
CR/NC avail.
Learn physical, psychological and preventive skills to prevent assault and reduce your risk to personal safety. Emphasis on the development of personal power and self-esteem. Physical defense skills are learned and mastered. CSU/UC

P E 552. Racquetball (1)
Lab-2
Repeat: max. 4 units
CR/NC avail.
Fundamentals and principals of racquetball which include the essential skills of the game, the racquetball games (singles, double, "cutthroat"), rules, strategies, training, conditioning and injury prevention. CSU/UC

P E 554A. Beginning Yoga (1)
Lab-2
Repeat: max. 4 units
An introduction to the principles and practice of yoga as a physical discipline of asanas and breathing exercises which achieves integration of body and mind. A presentation of yoga histories, cultural influences, and current yoga trends. CSU/UC

P E 554B. Intermediate Yoga (1)
Lab-2
Repeat: max. 4 units
CR/NC avail.
A continuation of yoga at the intermediate level as a physical discipline of asanas and breathing exercises which achieves integration of body and mind. A continuation of material on yoga histories, cultural influences, and current yoga trends. CSU/UC

P E 554C. Senior and Restorative Yoga (1)
Lab-2
Repeat: max. 4 units
CR/NC avail.
An introduction, especially for senior citizens and people with special needs, to the principles and practices of yoga as a physical discipline of poses and breathing exercises which achieves integration of the body and mind. A presentation of yoga histories, culture and current trends, with an emphasis on the role of the senior citizen in Indian and yoga cultures. CSU/UC

P E 555A-555B. Strength and Circuit Training (1-1)
Lab-2
Repeat: combination max. 4 units
CR/NC avail.
Beginning and intermediate class in weight conditioning and circuit training with an emphasis on proper use of free weights and interval training (use of the stair master, treadmill and life cycle) to promote strengthening, toning and cardiac fitness. CSU/UC

P E 557. Walking for Fitness (1)
Lab-2
Repeat: max. 4 units
CR/NC avail.
Principles and practices of conditioning the body with emphasis on aerobic (cardiovascular) fitness by increasing endurance through aerobic walking, and by increasing the body’s range of motion through stretching and flexibility activities. CSU/UC

P E 558A-558B-558C. Aerobic Fitness (1-1-1)
Lab-2
Repeat: combination max. 4 units
CR/NC avail.
Beginning, intermediate and advanced techniques with emphasis on cardiovascular endurance utilizing physical activity which increase the heart rate to each individual’s target zone. CSU/UC

P E 559. Water Aerobics (1)
Lab-2
Repeat: max. 4 units
CR/NC avail.
A physical activity performed in the water with emphasis on the achievement and improvement of cardiovascular endurance, encompassing the special advantages of movement in water. CSU/UC

P E 560A-560B. Latin American Social and Folk Dance Forms (1-1)
Lab-2
Repeat: combination max. 4 units
CR/NC avail.
Developing skill in such dances as Merengue, Tango, and Salsa, while exploring historical and cultural influences. Recognizing musical styles and development. CSU/UC

P E 561. Stretching and Flexibility Development (1)
Lab-2
Repeat: max. 4 units
CR/NC avail.
A physical activity to develop the body, with emphasis on increasing the overall flexibility and strength of the major muscle groups. CSU
P E 562. Body Sculpting (1)
Lab-2 CR/NC avail.
Repeat: max. 4 units
Introduction to the principles and practices of body sculpting through weight training with hand held weights, dynabands and individual body weight. CSU/UC

P E 564. Dance Conditioning (1)
Lab-2 CR/NC avail.
Repeat: max. 4 units
An introduction to conditioning techniques which promote body awareness, improve body alignment, enhance and expedite dance skills and prevent injury. CSU/UC

P E 565. Step Aerobics (1)
Lab-2 CR/NC avail.
Repeat: max. 4 units
Introduction to the principles and practices of step aerobics through aerobic training: stepping up and down on adjustable platforms, performing in a routine at about 120 steps per minute. CSU/UC

P E 566. Personal Defense and Safety Awareness (1)
Lab-2 CR/NC avail.
Repeat: max. 4 units
Assault prevention and personal defense skills designed to increase safety awareness. Basic physical defense skills are taught with an emphasis on streetwise safety strategies and the psychology of assault prevention. CSU/UC

P E 567. Dance Aerobics (1)
Lab-2 CR/NC avail.
Repeat: max. 4 units
This course is designed to use the dance vocabulary of contemporary street funk, jazz, ballet, modern and traditional African dance to develop, increase and maintain cardiovascular ability, strength, muscular coordination, agility and postural awareness. CSU/UC

P E 568. Walking for Fitness in San Francisco (1)
Lab-2 CR/NC avail.
Repeat: max. 4 units
Principles and practices of walking for fitness by participation in weekly walks throughout the city of San Francisco. CSU/UC

P E 569. Beginning Pointe Technique (1)
Lab-2 CR/NC avail.
Prereq.: P E 504B or 504C and/or a screening test evaluating technique
Repeat: max. 4 units
Theory and practice of basic pointe technique which includes a historical review, relevant foot anatomy, selection, preparation, and care of pointe shoes, pre-pointe exercises, elementary pointe vocabulary, and safety guidelines to prevent injury. CSU/UC

P E 570A. Swing Dance Forms (1)
Lab-2 CR/NC avail.
Repeat: P E 570-570B-570C combination max. 4 units
An introductory experience of the popular American social dances known as Swing, and an exploration of the cultural scene that created them. Surveys historical dance varieties and East Coast/West Coast regional differences, as well as the latest trends and styles. CSU/UC

P E 570B-570C. Intermediate/Advanced Swing Dance Forms (1-1)
Lab-2 CR/NC avail.
Repeat: P E 570-570B-570C combination max. 4 units
Intermediate and advanced skills in the popular American dances known as “Swing,” while exploring the cultural scene that created them. CSU/UC

P E 572. Jujitsu (1)
Lab-2 CR/NC avail.
Repeat: max. 4 units
Instruction and practice in the basic skills of Jujitsu. Course will cover the terminology, etiquette along with throwing, grappling, and submission techniques with an emphasis on self-defense techniques. CSU/UC

P E 573A-573B. Hip-Hop Dance (1)
Lab-2 CR/NC avail.
Repeat: combination max. 4 units
Beginning and intermediate hip-hop dance techniques, patterns, choreography and improvisational group projects/presentations. CSU/UC

P E 574. Culinary and Fitness Walks in San Francisco (1)
Lab-4, field trips CR/NC avail.
Repeat: max. 4 units
Principles and practices of walking for fitness in local neighborhoods as well as the importance of nutrition and diets as it relates to one’s general health and well-being. CSU

P E 575A-575B-575C. Kung Fu (1-1-1)
Lab-2 CR/NC avail.
Repeat: combination max. 4 units
An introduction to the basic, intermediate and advanced skills and physical training methods derived from the unarmed martial arts of China (Chuan Fa). CSU/UC

P E 604B. Intensive Ballet (2)
Lab-4 CR/NC avail.
Repeat: max. 8 units
A continuation of the theory and practice of classical ballet with an emphasis on intermediate ballet technique and vocabulary. Application of intermediate ballet vocabulary at the barre and in center practice will be explored. CSU/UC

P E 626B. Intensive Modern Dance (2)
Lab-4 CR/NC avail.
Repeat: max. 8 units
Emphasis on body movement through modern dance improving alignment, muscular endurance, flexibility, coordination, musicality, performance technique, and dance vocabulary appropriate to intermediate training. Improvisation and choreography. Techniques explored include Graham, Hawkins, Cunningham, Limon, Horton and Dunham. CSU/UC
BCST 117. Sports Announcing and Production (3)
Lec-3, lab-3
Repeat: max. 6 units
Prereq.: BCST 115 and 131 or 140 or equivalent skills
All aspects of sports announcing and production for radio, television, cable, satellite, and the Internet. An exploration of sports coverage history, issues, technology, production, play-by-play announcing, color announcing, and career opportunities. Students will announce and produce live and live-on-tape broadcasts of City College sports events. CSU

---

Physical Science
Announcement of Courses

CREDIT, DEGREE APPLICABLE COURSE:

PSC 11. Physical Science (3)
Lec-3, conf-1
Not open to students who have completed a college-level course in physics, physical science, chemistry, geology, or astronomy with a final grade of C or higher
A conceptual, almost non-mathematical, introduction to the physical sciences. Topics from physics, chemistry, geology, astronomy, oceanography, and meteorology. Emphasis on topics which lead to a better understanding of our technological society and physical environment. CSU/UC

PSC 88. Physical Science for Automotive Technology (4)
Lec-3, lab-3, field trips
Physical science course integrating concepts from physics, chemistry, and environmental science into current and future trends in automotive technology such as automotive design, diagnostics, alternative fuels, batteries and electrical systems. CSU

---

Physics
Announcement of Courses

CREDIT, DEGREE APPLICABLE COURSES:

PHYC 2A-2B. Introductory Physics (3-3)
Lec-3, conf-1
Required of premedical, biology, and some architecture students
Prereq.: PHYC 2A: HS Physics or PHYC 4A, and HS
Trigonometry or MATH 95
PHYC 2B: PHYC 2A
Coreq.: PHYC 2A: PHYC 2AL PHYC 2B: PHYC 2BL
Lectures illustrating principles of physics. CSU/UC/CAN

PHYC 2A. Mechanics, fluids, heat, and sound.

PHYC 2B. Electricity, magnetism, light, and selected topics in modern physics.

PHYC 2AC-2BC. Introductory Physics-Calculus Supplement (0.5-0.5)
Lec-1, conf-0.5 (9 wks)
Required of some premedical, biology, and architecture students. CSU/UC
Prereq.: PHYC 2AC: MATH 110A or 100A; completion/concurrent enrollment in PHYC 2A
PHYC 2BC: MATH 110B or 100B; completion/concurrent enrollment in PHYC 2B

PHYC 2AC. The application of calculus to topics in mechanics, fluids, heat and sound.

PHYC 2BC. The application of calculus to topics in electricity, magnetism, light, and modern physics. (spring semester only)

PHYC 2AL-2BL. Introductory Physics Laboratory (1-1)
Lab-3
Required of premedical, biology, and some architecture students
Prereq.: For PHYC 2AL: Completion/concurrent enrollment in PHYC 2A
PHYC 2BL: Completion/concurrent enrollment in PHYC 2B
Laboratory experiments. CSU/UC/CAN

PHYC 2AL. Mechanics, fluids, heat, and sound.

PHYC 2BL. Electricity, magnetism, and light.

PHYC 4A-4B-4C-4D. Physics for Scientists and Engineers (3-3-3-3)
Lec-3, conf-1
Required of physics, chemistry, and engineering majors planning to transfer to the University of California, Berkeley, or into other engineering or physical science Transfer programs.
Prereq.: PHYC 4A: HS Physics or PHYC 41, and completion/concurrent enrollment in MATH 110B
PHYC 4B: PHYC 4A, and MATH 110B;
PHYC 4C: PHYC 4B; PHYC 4D: Completion/concurrent enrollment in PHYC 4C and MATH 110C
Coreq.: PHYC 4A: PHYC 4AL; PHYC 4B: PHYC 4BL; PHYC 4C: PHYC 4CL; PHYC 4D: PHYC 4DL
Advise: PHYC 4D/4DL and Completion/concurrent enrollment in PHYC 4C/4CL
Mathematical development of physics. CSU/UC/CAN

PHYC 4A. Mechanics.

PHYC 4B. Electricity and magnetism, and AC circuit theory.

PHYC 4C. Waves, geometrical and physical optics, and thermodynamics.

PHYC 4D. Relativity and quantum mechanics.
PHYC 4AL-4BL-4CL-4DL. Physics Laboratory for Scientists and Engineers (1-1-1-1)
Lab-3
Required of physics, chemistry, and engineering majors planning to transfer to the University of California, Berkeley, or into other engineering or physical science transfer programs.
Prereq.: PHYC 4AL: completion/concurrent enrollment in PHYC 4A
Coreq.: PHYC 4BL: PHYC 4B; PHYC 4CL: PHYC 4C; PHYC 4DL: PHYC 4D Laboratory experiments. CSU/UC/CAN
PHYC 4AL. Mechanics, measurements, fluids.
PHYC 4BL. Electricity and magnetism; emphasis on oscilloscope measurement techniques.
PHYC 4CL. Experiments in sound, Fourier analysis, electrical oscillations and waves, geometrical and physical optics.
PHYC 4DL. Laboratory experiments in modern physics.

PHYC 10. Conceptual Physics (3)
Lec-3
A conceptual, almost non-mathematical, introduction to physics with demonstrations. Topics from mechanics, properties of matter, heat, sound, electricity, magnetism, light, nuclear physics, and relativity. Emphasis on topics that lead to a better understanding of our technological society and physical environment. CSU/UC

PHYC 10L. Conceptual Physics Laboratory (1)
Lab-3
Required for students enrolled in the curriculum in RADL.
Prereq.: Completion/concurrent enrollment in PHYC 10 Laboratory experiments involving basic physics concepts. Emphasis on concept development, data handling, and laboratory skills. CSU/UC

PHYC 40. Elementary Physics (3)
Lec-3, conf-1
Prereq.: Trigonometry or completion/concurrent enrollment in MATH 95
Elementary physics, emphasizing problem solving in kinematics, forces, energy, momentum, fluids, and electricity. CSU/UC

PHYC 41. Preparatory Physics (3)
Lec-3, conf-1
Prereq.: Completion/concurrent enrollment in MATH 110A
Elementary physics, emphasizing concepts and problem solving in kinematics, forces, energy, momentum, electricity, magnetism, vibrations and wave phenomena. CSU/UC

Pilipino Announcement of Courses

CREDIT, DEGREE APPLICABLE COURSES:

PIL 1. Elementary Pilipino (5)
Lec-5, lab-2
Advertise: ENGL 94 or ESL 82 or completion of any City College or university foreign language course.
Beginner's course. Grammar, composition, and reading. Practice in speaking and understanding simple Pilipino. CSU/UC

PIL 2. Continuation of Elementary Pilipino (5)
Lec-5, lab-2
CR/NC avail.
Prereq.: PIL 1
Second semester course. Completion of elementary grammar, composition, and reading; continued practice in speaking and understanding Pilipino. CSU/UC

The 9 unit sequence of Pilipino 10A-10B-10C permits three repeats for a total of 18 units. It is the student's prerogative to choose which courses will be repeated.

PIL 10A-10B-10C. Conversational Pilipino (3-3-3)
Lec-3, lab-2
CR/NC avail.
Prereq.: For PIL 10B: 10A
Prereq.: For PIL 10C: 10B
Intensive instruction and practice in spoken Pilipino. CSU

PIL 39A-39B. Pilipino Literature in Translation (3-3)
Lec-3
CR/NC avail.
Advertise: Eligible for ENGL 1A
Reading and discussion of important works of Philippine literature in English translation. CSU/UC
PIL 39A. Philippine literature to 1940
PIL 39B. Philippine literature from 1940 to the present

Political Science Announcement of Courses

CREDIT, DEGREE APPLICABLE COURSES:

POLS 1. American Government (3)
Lec-3
An introduction to the institutions, operations, policies, and problems of American government today. Examination of such issues as U.S. Constitutional development; the impact of the President, the Congress, the bureaucracy, and the courts on daily life; civil rights and liberties; the press and the mass media; political parties, lobbies, and citizen action groups; voting and elections; the domestic and foreign policies of the federal government; the problems of state and local government; public administration of and the theories, values, and behavior underlying the American political system. CSU/UC/CAN

POLS 2. Comparative Government (3)
Lec-3
CR/NC avail.
A comparative study of the constitutional principles, governmental institutions, and political problems of selected governments abroad. CSU/UC

POLS 3. Political Theory (3)
Lec-3
CR/NC avail.
Various theoretical approaches to politics and basic political problems and proposed solutions to them. An introduction to ways of thinking about politics and to the language and concepts of political theory. CSU/UC
POLS 5. International Relations (3)
Lec-3 CR/NC avail.
An introductory survey of world politics involving a historical and theoretical analysis of the relations among states and international organizations. Contemporary problem-areas and issues in an international arena of conflict and order, such as: American foreign policy; diplomacy and international bargaining; global problems of war and nuclear armament; international finance and the world economy; economic development and the world's resources; terrorism and human rights; and, on a voluntary basis, student participation in the Model United Nations. CSU/UC

POLS 6. Problems of Political Association (3)
Lec-3 CR/NC avail.
An introduction to modern Western Civilization, from a political perspective, providing an overview of politics from the origins of the nation state to super-power confrontation, with a focus on the triangular relationship of Europe, the U.S., and the U.S.S.R. The nature of government, law, ideology, revolution, and political and economic integration are discussed. CSU/UC

POLS 7. American Politics and the African American Community (3)
Lec-3 CR/NC avail.
American political institutions and their relationship to African Americans. The unique manner in which Black people have had to function both within and outside of the political system. The future of African American politics. CSU/UC

POLS 8. Political Problems of Latin Americans (3)
Lec-3 CR/NC avail.
The relationship between Latin American citizens and American political institutions. Emphasis on the political problems of Latin Americans, proposed solutions to these problems, and practical political techniques for achieving such solutions. CSU/UC

POLS 9. Campaigns and Elections (3)
Lec-3 CR/NC avail.
Offered spring and fall semesters of general election years. Survey of the theory and practice of American political campaigns and elections. Emphasis on candidates, their issue positions, strategies and experience; ballot propositions, pro's and con's, role and effect of the media, money, polls, and the changing impact of political parties and interest groups. CSU/UC

POLS 10. United States Foreign Policy (3)
Lec-3 CR/NC avail.
An introductory course emphasizing the study of current problems and issues in United States foreign policy. Major units of study include the making and carrying out of foreign policy, historical changes in American foreign relations, recent events influencing America's role as a world power, and future challenges to the United States in international affairs. CSU/UC

POLS 12. Ethnic Politics in the United States (3)
Lec-3 CR/NC avail.
This course surveys the contemporary history and role of race and ethnicity in the American political system. Theories of race, migration, and ethnic political patterns are discussed in an integrated, comparative, and multidisciplinary approach. The interplay of ethnicked and racial factors in the political process is systematically examined and analyzed in the context of at least three of the following groups: African Americans, Asian Americans, Chicano/Latino, Native Americans, and European Americans. Salient policy issues affecting all groups, such as civil rights, crime, immigration, and employment, are also examined. CSU/UC

POLS 18. Government and Politics of Latin America (3)
Lec-3 CR/NC avail.
The constitutional systems, political processes, and social problems of Latin-American nations. CSU/UC

POLS 20. The Politics and Policies of Cities (3)
Lec-3 CR/NC avail.
An analysis of the problems, politics, and policies of American city governments, with special emphasis on the San Francisco Bay Area. CSU

POLS 25. Political Action (3)
Lec-3, field trips CR/NC avail.
A practical guide to citizen political participation. Emphasis on institutional possibilities of change as well as the development of political strategies. Practical political experience encouraged. CSU

POLS 35. Government and Politics of East Asia (3)
Lec-3 CR/NC avail.
A survey of political developments and changes in East Asia, with emphasis on the governments and politics of China and Japan. The role of other world powers in this region, including the Soviet Union and the United States. CSU/UC

POLS 41. Independent Studies in Political Science (1)
Lec-1
Repeat: if no topic repeat, max. 2 units
An individualized reading or research program. CSU/UC

POLS 42A-42B-42C-42D. Discussions in Political Science (1-1-1-1)
Lec-1 CR/NC avail.
Lectures on varied subjects given by political scientists and practicing politicians (national, state and local). Seminar-type discussions and occasional field trips. CSU/UC

POLS 43. The Constitution and Individual Rights (3)
Lec-3, field trips CR/NC avail.
A citizen's civil and criminal rights under the Constitution. Analysis of leading cases and legal principles which protect individual freedom. CSU/UC

POLS 45. Government and Politics of Middle East (3)
Lec-3 CR/NC avail.
A survey of political developments and changes in the Middle East, with emphasis on the Arab states and Israel. CSU/UC
POLS 46. American Political Systems (3)
Lec-3, field trips CR/NC avail.
Not designed to satisfy the American history and institutions requirement for the University of California nor for the California State Universities and Colleges.
No credit for POLS 46 taken after completion of POLS 1
A survey of the relevant aspects of events and policies that have brought about change at all levels of government on the American scene—local, state, and national. Emphasis on basic political problems and on an analysis and evaluation of the solutions offered historically, with consideration of relationships between California and the United States, as well as consideration of local government in the San Francisco Bay Area. CSU/UC

POLS 47. Government and Politics of Southeast Asia (3)
Lec-3 CR/NC avail.
A survey of political developments and changes in Southeast Asian states (the Philippines, Indonesia, Malaysia, Thailand, and Singapore) and such other states as Viet Nam, Laos, Cambodia, and Burma. Internal politics and international relations. CSU/UC

POLS 48. Government and Politics of Africa (3)
Lec-3 CR/NC avail.
A survey of political development and change in contemporary Africa, with emphasis on Africa south of the Sahara. Major factors shaping African politics and institutions; ideology, nationalism, colonialism, political groups, and nation-building. CSU/UC

POLS 51-52-53. Selected Topics in Political Science (1-2-3)
Lec-1,2,3 CR/NC avail.
Repeat: if no subject repeat
Selected topics in political science will be explored through lectures, discussions, film, video, and/or television leading to a critical analysis and understanding of the topic under discussion. CSU

POL 53A. "Tales of the City": San Francisco Government and Politics

Psychology

Announcement of Courses

CREDIT, DEGREE APPLICABLE COURSES:

PSYC 1. General Psychology (3)
Lec-3 CR/NC avail.
Adviser: ENGL 92, ESL 82, or eligibility for ENGL 94
A scientific approach to the study of behavior and mental processes designed for both majors and non-majors. Topics include: research methods, physiology of behavior, sensory systems, learning, memory, life-span development, motivation, emotion, personality theories, social psychology, abnormal psychology and psychotherapy. CSU/UC/CAN

PSYC 1B. Introduction to Biopsychology (3)
Lec-5 CR/NC avail.
Prereq.: PSYC 1
Exploration of the interaction between behavior and biological factors. Includes heritability of behavior, the nervous system, the endocrine system, the senses, and the biological factors underlying behaviors such as learning and memory, food and sexual motivation, speech, emotions, altered states of consciousness, psychosis, and depression. CSU/UC

PSYC 2. Problems and Methods in Experimental Psychology (3)
Lec-3 CR/NC avail.
Prereq.: PSYC 1
Primarily for psychology majors, related majors, and students interested in the scientific method. Introduction to experimental method and design in behavioral science. Designed to develop an understanding of the concepts and logic of experimentation and to develop clear and concise thinking for the evaluation and criticism of information regarding human behavior. CSU/UC

PSYC 5. Introduction to Statistics for the Behavioral Sciences (4)
Lec-5 CR/NC avail.
Prereq.: MATH 92, 860, or demonstration of MATH 860 exit skills (2nd year HS Algebra)
Not open to students who have completed a course in statistics
Primarily for prospective majors and related majors. Introduction to research design, measurement, descriptive statistics (including correlation and regression), probability, sampling theory, confidence intervals, and hypothesis testing. CSU/UC

PSYC 7. The Psychology of Biofeedback (3)
Lec-3 CR/NC avail.
Basic information about psychology and its relationship to the nervous system, including classroom and laboratory experience, research methods and applications. Focuses upon sympathetic nervous system control, muscle regulation, body temperature, and brain-wave biofeedback through the use of electronic instrumentation. CSU

PSYC 9. The Psychology of Stress (3)
Lec-3 CR/NC avail.
Review of research on the causes and consequences of stress along physical, behavioral, emotional and mental dimensions. Emphasis will be placed on practical implications for better managing stress in our lives. CSU

PSYC 10. Abnormal Psychology (3)
Lec-3 CR/NC avail.
Adviser: PSYC 1
An examination of the major psychological disorders as described by the latest edition of The Diagnostic and Statistical Manual of the American Psychiatric Association. Disorders will be examined in historical perspective and from relevant theoretical models including: biological, psychodynamic, behavioral, cognitive, humanistic-existential, and sociocultural. Diagnostic criteria will be described and explicated, and research will be reviewed to improve understanding of the etiology and most promising treatments of the various disorders. CSU/UC
PSYC 11. Theories of Personality (3)
Lec-3 CR/NC avail.
Advisors: PSYC 1
An introduction to the theoretical constructs describing personality, including the ways in which personality is explained, the dynamics that govern human behavior, and the ways in which personality develops. Current research and approaches to understanding personality and consideration of the contributions and limitations of each theory will also be a focus. CSU

PSYC 12. Sport Psychology (3)
Lec-3 CR/NC avail.
Introductory survey of psychological factors that affect participation, effort, skill development and performance level in sport, and how these psychological factors interact with genetic predispositions and social influences. CSU

PSYC 14. Psychology of Shyness and Self Esteem (1)
Lec-1 CR/NC avail.
An examination of psychological theories and research on the development of shyness and self esteem. Techniques for reducing shyness and raising self esteem. CSU

PSYC 15. Assertive Behavior (1)
Lec-1 CR/NC avail.
Emphasis on cognitive-behavioral theories and their application to assertive behavior. Assertiveness techniques in a variety of situations, including communication with family, friends and work associates. CSU

PSYC 16. Psychology of Successful People (3)
Lec-3 CR/NC avail.
Critical exploration of how success is defined, and what makes people successful. Reviews research on skills, traits and habits that predict and underlie multiple dimensions of success, as well as how they intertwine with each other and with environmental and biological influences. Emphasis on helping students acquire insights and tools they can apply toward achieving success in areas such as careers, relationships, health, longevity, stress management, resilience, college, life-satisfaction and self-satisfaction. CSU

PSYC 17. Psychology of Eating, Food, and Weight (1)
Lec-18 (total hrs) CR/NC avail.
Not open to students who have completed PSYC 41A.
An examination of psychological theories and research on eating, weight and food. Includes examination of eating disorders, dieting, the diet industry, and weight management. CSU

PSYC 21. Lifespan Development (3)
Lec-3 CR/NC avail.
Advisors: PSYC 1
Examination of psychological theories and research to describe, understand, and explain human development from conception to death. Exploration of the lifelong interaction between nature and nurture. Emphasis on the specific issues we face as we progress through life, such as acquisition of emotional, physical, cognitive and moral skills and the changing balance between dependence and interdependence as we move from infancy to adolescence, adulthood and later life. CSU

PSYC 22. Psychology of Race and Ethnic Relations (3)
Lec-3 CR/NC avail.
Not open to students who are enrolled in or who have completed PSYC 23.
Critical evaluation of the concept of race as a biological, social and cultural construct and examination of psychological aspects of race and ethnic relations. Psychohistorical analysis of the treatment of African Americans, Asian Americans, Mexican/Latino Americans, and Native Americans in the USA. Emphasis on the strengths and unique contributions of these and other groups to the USA. CSU

PSYC 23. Psychology of Race and Ethnic Relations (3)
Lec-3 CR/NC avail.
Prerequisites: PSYC 1
Not open to students who are enrolled in or who have completed PSYC 22.
Critical evaluation of the concept of race as a biological, social and cultural construct and examination of psychological aspects of race and ethnic relations. Psychohistorical analysis of the treatment of African Americans, Asian Americans, Mexican/Latino Americans, and Native Americans in the USA. Emphasis on the strengths and unique contributions of these and other groups to the USA. Relevant psychological theories and research are applied to a required research paper on psychological and social problems related to discrimination. CSU/UC

PSYC 25. Psychology of Sex Differences (3)
Lec-3 CR/NC avail.
Analysis of sex differences from physiological, psychological, and social perspectives; exploration of areas such as abilities, achievement, aggression, attitudes, including the study of concepts of femininity, masculinity, and androgyny. Designed to increase understandings of personal and professional relationships. CSU/UC

PSYC 26. Human Relations (3)
Lec-3 CR/NC avail.
An introduction to the understanding of human behavior, to enhance development of social skills and attitudes for more effective interpersonal relations and social behavior as related to family, group, and vocational contexts. CSU

PSYC 40. Child and Adolescent Psychology (3)
Lec-3 CR/NC avail.
Advisors: PSYC 1
Introduction to the psychology of child development from conception through adolescence. Examination of research, theories, and practical information for parents, caretakers, teachers, mental health workers, physicians, and concerned adults. Emphasis on how a child's development is enhanced, restricted, or distorted; emotional, social and cognitive development at different age/stage levels. Role of heredity and environment on maturation and learning in various areas of behavior. CSU/UC

Lec-1,2,3 CR/NC avail.
Repeat: if no subject repeat
Exploration of topics of current interest and innovations in psychology. CSU/UC
PSYC 61-62-63. Fieldwork in Psychology (1-2-3)
Conf-L, work-5,10,15 CR/NC only
Prereq.: PSYC 1 or 26
Repeat: max. 6 units
Work experience in a psychology-related campus placement or a community service agency; guided experience in the application of psychological principles and methods. Primarily for prospective majors and related majors. CSU

Public Safety
See listings at Administration of Justice and Fire Science Department.

Radiation Oncology Technology
Announcement of Curricula

Degree Curriculum
The radiation oncology technologist (radiation therapy technologist) is an essential member of the team responsible for the treatment of malignant diseases. The Option in Radiation Oncology Technology is approved by the Joint Review Committee on Education in Radiologic Technology, located at 20 N. Wacker Drive, Suite 900, Chicago, IL 60606-2901, Tel: (312) 704-5300, and by the California Department of Health, and is offered in affiliation with the Radiotherapy Department of the University of California Medical Center and several other Bay Area hospitals.

Consideration for Admission to the Curriculum: To be considered for admission to the curriculum, applicants must:
1. Have completed with final grades of C or higher:
   a. Elementary algebra or MATH 840. (Documented algebra classes completed at secondary school levels may be credited by demonstration of a score on the C.C.S.F. Algebra Skills Placement Test indicating eligibility for MATH 90 or 860);
   b. One year high school geometry or MATH 850 or 855;
   c. Chemistry 30/31, 32 or 40;
   d. One year high school physics, or PHYC 40.
2. Have at least a 2.0 cumulative grade point average in college work previously completed.
3. Be in good physical and mental health.
4. File with the Office of Admissions and Records a completed application for admission to City College (for dates, see in this catalog the “Calendar of Instruction”).
5. Take the City College of San Francisco placement tests on the date or dates stated in the notice mailed by the College. All applicants must take the City College placement tests (mathematics, English).
6. Submit an application to the Radiologic Technology Office.

For application deadline, contact Radiation Oncology Department. (Applications are available in the Radiologic Technology Office, Cloud Hall, Room 239.)

Coeducational Enrollment. Enrollment is open to both men and women.

Health Clearance Requirements. In addition to academic and orientation requirements, enrollment in the Radiation Oncology Technology Program is subject to evidence of immunizations per the San Francisco Health Department. The forms are available from the Radiologic Technology Office.

Instruction in the Major. The Option in Radiation Oncology Technology is 26 months in length, including an internship of thirteen weeks. The course of study includes instruction in the following: radiation therapy techniques, radiobiology, oncology, treatment planning, radiation protection, anatomy, physics, patient care, film processing and exposure factors, elementary positioning, and physiology. Clinical education in Radiation Oncology Technology, a course extending over an academic year, plus two summer sessions, is taught in the radiotherapy departments of the hospitals affiliated with the program. Members of the professional and technical staffs of those departments serve as instructors. Students have the opportunity to rotate to four different major cancer centers. The final summer session is thirteen weeks in length and may require attendance at a center away from San Francisco.

Scholarship Requirements. Students who receive a final grade lower than C (75%) in any of the required courses in radiologic technology, are required to repeat the course before proceeding to the next course in sequence. Students whose cumulative grade point average drops below 2.0, will not be allowed to proceed to the next course(s) until the GPA has been raised to 2.0 or higher.

Basis for Disqualification. Students who receive a final grade lower than C (75%) will be allowed to repeat that Radiation Oncology Technology (RADI) course once. Any further RADI grades lower than C (75%), or a grade point average below 2.0, will be cause for dismissal from the Radiologic Oncology Technology Program. Students may be disqualified prior to the end of the semester should they receive a grade lower than C in their clinical performance. Students may be suspended or dismissed for excessive absences either on campus or at the clinical affiliate, according to the attendance policy, or for other reasons consistent with College policy, as set forth in the Catalogue under General Information.

Readmission of Students Disqualified Because of Unsatisfactory Scholarship. Students who have been disqualified from continuing in the curriculum because they received a final grade lower than C and who desire to be re-admitted must submit a new application to the Radiology Department Review Committee. As of the procedure, the Committee will meet with the applicant prior to making a decision. The Committee will base its recommendations on the current policy of the Radiation Oncology Technology Program, which is available from the department office.

Associate in Science Degree and Award of Achievement. The course of study is designed so that students may satisfy the requirements for graduation from the College. Students who satisfy these requirements, complete the required courses in the curriculum with final grades of C or higher, and complete the internship, receive the Award of Achievement in Radiation Oncology Technology.
State and National Certification. Graduates of the Option in Radiation Oncology Technology are eligible to take the certification examination administered by the California Department of Health. State certification is required for employment in California. Graduates are eligible for and are encouraged to take the certification examination given by the American Registry of Radiologic Technologists, a national certification board recognized by the Joint Review Committee for Education in Radiologic Technology. Many employers require national certification.

Courses Required for the Award of Achievement in Radiation Oncology Technology
The following sequence of courses is for students starting in the fall. The sequence changes for students starting in the spring. Contact the Radiology Technology office for further information.

First Semester
Course Units
ANAT 25 Gen Human Anat .................. 4
DMI 49 Intro to Radl ........................ 3
DMI 50A Intro to Med Radiography ......... 3
RADL 52 Patient Care and Staff Relationships .... 2
HLTH 14* CPR Adv First Aid Emerg Care ...... 2

* This course is strongly recommended, but may be replaced by a current Adult/Pediatrics Red Cross CPR card. Evidence must be furnished to the Radiology Department office prior to the start of RADL 80.

Second Semester
ANAT 26 Sectional Anat........................ 1
PHYS 1 or 12 Hum Phys or Intro to Hum Phys ...... 4
DMI 50B Radiologic Physics and Equipment ...... 2
RADL 70 Radiat Protect ........................ 2
RADL 80 Intro to Radiat Onc & Clinic Observ (spring only) ......................... 3

Additional graduation requirements

Summer Session (Eight weeks)
RADL 71 Elem Radiat Therapy Tech ........... 2
RADL 81 Conf to Clinic Exper in Radiat Therapy ... 2
RADL 82 Clinical Work Exp in Therapeutic Radl .... 2

Third Semester (Fall)
DMI 56 Pathalogy ................................ 2
RADL 72 Physics of Radl Ther .................. 2
RADL 74 Oncology ................................ 3
RADL 83 Clin Wk Exper in Ther Radl .......... 4

Additional graduation requirements

Fourth Semester (Spring)
RADL 73 Radiation Bio .......................... 2
RADL 75 Adv Radiat Therapy Tech .............. 2
RADL 84 Clinic Wk Exp Ther Radl ............ 4

Additional graduation requirements

Summer Session (Thirteen weeks)
RADL 85 Conf to Clinic Exper in Therapeutic Radl 1
RADL 86 Clinic Wk Exper in Therapeutic Radl .... 2

Recommended electives: Courses in Computer Science; PSYC 1, 26; SOC 28; Speech 11, 12 or 1A; classes in typing and/or keyboarding.

Radiation Oncology Technology
Announcement of Courses

CREDIT, DEGREE APPLICABLE COURSES:

RADL 52. Patient Care and Staff Relationships (2)
Lec-3
Coreq.: DMI 50A
Students with prior clinical experience admitted to the Diagnostic Medical Imaging or Radiation Oncology Technology program may challenge this course.
Introduction to the organization of health care in this country, the ethical and interpersonal responsibilities of radiographers, the meaning of illness and therapies to the patient, and theory and practice in assessing patient situations and in meeting basic patient needs at various clinical sites. CSU

RADL 70. Radiation Protection (2)
Lec-2, lab-1
Prereq.: DMI 50A
Coreq.: Clinical placement for Diagnostic students; enrollment in RADL 80 for Oncology students
Methods of reducing dose per exposure to patients, and safe practices for protection of personnel. Emphasis is placed on learning State regulations applying to: radiography, fluoroscopy, radiation therapy and nuclear medicine. CSU

RADL 71. Elementary Radiation Therapy Technique (2) su
Lec-4, lab-2 (6 wks)
Prereq.: ANAT 25; DMI 50A and 50B; RADL 70 and 80
Coreq.: RADL 81 and 82

RADL 72. The Physics of Radiation Therapy and Radium Therapy (2) fa
Lec-2, lab-var, field trips
Prereq.: RADL 71
Coreq.: RADL 74 and 83
Advanced radiation physics as applied to radiation therapy. Radium usage, handling, and dose calculations. A detailed review of the production of X-rays and gamma sources, the absorption and modification of X-rays, and dose measurement. Machine calibration. CSU
RADL 73. Radiation Biology (2) sp
Lec-2, field trips
Prereq.: RADL 70
Coreq.: RADL 75 and 84
Basic radiation biology with applications to radiation therapy. Radiation chemistry, target theory, mechanisms of cell killing, tissue and whole-body effect, radiation botany, and the action of radiations on tumors. Genetic effects and the hazards of radiations. Combined chemotherapy and radiation therapy techniques. CSU

RADL 74. Oncology (3) fa
Lec-3, field trips
Prereq.: RADL 80
Coreq.: RADL 72 and 83
An introduction for therapeutic radiologic technologists to the basis of medical and nursing practice used in the treatment of cancer patients. Description of tumors of each primary site, their histology and routes of spread. The study of each site with photographs of patients, radiographs, pathology specimens, and microscopic slides. The methods of treatment of cancer of each area, including surgery, drugs, and radiation therapy, with emphasis on radiation-therapy techniques. Associated medical problems in cancer patients and their common management, including pharmacology. CSU

RADL 75. Advanced Radiation Therapy Techniques (2) sp
Lec-2, lab-2
Prereq.: RADL 72
Coreq.: RADL 73 and 84
Advanced methods of patient immobilization and positioning. Techniques in the manufacturing of casts, molds, special shields and shaping devices. Design and manufacture of compensating filters. Advanced treatment planning and isodose plotting, including computer applications. Experience in entering data into computer programs. CSU

RADL 80. Introduction to Radiation Oncology and Clinical Observations (3) sp
Lec-3, lab-3
Prereq.: ANAT 25; RADL 52 and DMI 50A
Introduction to basic concepts of cancer and its management. Basic therapeutic physics, dose calculation, positioning, and the special care of cancer patients. Supervised clinical observation. CSU

RADL 81. Conference to Accompany Clinical Experience in Radiation Therapy (2) su
Conf-5 (6 wks)
Prereq.: DMI 50B and RADL 70
Coreq.: RADL 71 and 82
Instruction in patient positioning, beam shaping and defining, dose calculation, treatment planning, operation of radiotherapy machines, machine calibration and record keeping. CSU

RADL 82. Clinical Experience in Radiation Therapy (2) su
Lab-20 (8 wks)
Coreq.: RADL 71 and 81
Practical experience in the Radiation Therapy Department of the University of California Medical Center or Bay Area hospitals. CSU

RADL 83. Clinical Experience in Radiation Therapy (4) fa
Lec-2, lab-20
Prereq.: RADL 82
Coreq.: RADL 72 and 74
Practical experience in the radiation therapy department of a hospital. Student must perform all oncology goals as stated in the course objectives. CSU

RADL 84. Clinical Experience in Radiation Therapy (4) sp
Lec-2, lab-20
Prereq.: RADL 83
Coreq.: RADL 73 and 75
Practical experience in the radiation therapy department of a hospital. Student must perform all oncology goals as stated in the course objectives. CSU

RADL 85. Conference to Accompany Clinical Experience in Radiation Therapy (1) su
Conf-2 (8 wks)
Prereq.: RADL 84
Coreq.: RADL 86
Practical experience in the radiation therapy department of a hospital. Student must perform all oncology goals as stated in the course objectives. A comprehensive examination and an evaluation of the subject matter covered in therapeutic radiologic technology. CSU

RADL 86. Clinical Experience in Radiation Therapy (2) su
Lab-40 (13 wks)
Prereq.: RADL 84
Coreq.: RADL 85
Advanced practical experience in a radiation therapy department. CSU

RADL 107. Principles and Techniques of Fluoroscopy (3)
Lec-3, lab-var
Prereq.: Student must be a California Certified Radiologic Technologist (CRT) or, course may be taken concurrently in the last two semesters of training in a Radiologic Technology Program
Fluoroscopy principles including anatomy of appropriate structures, image intensifiers, image recording systems, illumination and photometry, regulatory provisions, radiation safety and quality assurance. CSU