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
PREREQ.: FOR 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 engi-
nering 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 engi-
nering 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
bscilloscope 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 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, vibra-
tions and wave phenomena. CSU/UC

Announcement of Courses
CREDIT, DEGREE APPLICABLE COURSES:

PIL 1. Elementary Pilipino (5)
Lec-5, lab-2
CR/NC avail.
Advise: 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 OR DEMONSTRATION OF PIL 1 EXIT SKILLS
Second semester course. Completion of elementary grammar, com-
position, and reading: continued practice in speaking and understand-
ing 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 OR DEMONSTRATION OF PIL
10A EXIT SKILLS
PREREQ.: FOR PIL 10C: 10B OR DEMONSTRATION OF PIL
10B EXIT SKILLS
Intensive instruction and practice in spoken Pilipino. CSU

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

**POLS 2. Comparative Government (3)**  
Lec-3  
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  
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  
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  
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  
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  
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  
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  
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  
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 integrative, comparative, and multidisciplinary approach. The interplay of ethnic 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. Meets American Cultures requirement at UC, Berkeley. CSU/UC

**POLS 18. Government and Politics of Latin America (3)**  
Lec-3  
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  
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  
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  
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 CR/NC avail.
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 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

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

POLS 53B. "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.
Advise: 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-3 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 860 or 92 or demonstration of their exit skills
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.  
Advise: 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.  
Advise: 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/UC

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.  
Advise: 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/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. Psychosocial 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.  
PREREQ.: 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. Psychosocial 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

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.  
Advise: 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 1, 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.)

Applicants who satisfy the preceding requirements will qualify to participate in an orientation session conducted by the faculty of the Radiation Oncology Program to review the requirements and expectations of the program.

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 (RADL) course once. Any further RADL 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 readmitted must submit a new application to the Radiology Department Review Committee. As part 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 Radiologic 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 apply for 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 Radiologic 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

Additional graduation requirements
* 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 Protec ............................... 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 Pathology ...................................... 2
RADL 72 Physics of Radiat Ther ........................ 2
RADL 74 Oncology ..................................... 3
RADL 83 Clin Wk Exp 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 Rad .................. 4

Additional graduation requirements

Summer Session (Thirteen weeks)
RADL 85 Conf to Clinic Exper in Therapeutic Radl . 1
RADL 86 Clinic Wk Exp in Therapeutic Rad ........ 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
COREQ.: DMI 50A

Students with prior clinical experience admitted to the Diagnostic Medical Imaging or Radiation Oncology Technology program may challenge this course.

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)

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 72. The Physics of Radiation Therapy and Radium Therapy (2) fa 
Lec-2, lab-var, field trips

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

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 74. Oncology (3) fa
Lec-3, lab-2
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) spring
Lec-3, lab-3
Prereq.: ANAT 25 and 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

Russian

Announcement of Courses
Students of beginning Russian are directed to consider RUSS 1, 1A, and 10A.

CREDIT, DEGREE APPLICABLE COURSES:

RUSS 1. Elementary Russian (5)
Lec-5, lab-2
CR/NC avail.
Advised: ENGL 94 or higher or ESL 82 or higher or any City College or university foreign language course
Not open to students who are enrolled in or who have completed RUSS 21
Beginner's course. Grammar, composition and reading. Practice in speaking and understanding Russian. CSU/UC

RUSS 1A-1B. Elementary Russian (3-3)
Lec-3, lab-2
CR/NC avail.
Advised: RUSS 1A: ENGL 94 or higher or ESL 82 or higher or any City College or university foreign language course
Prereq.: For RUSS 1B: RUSS 1A or demonstration of RUSS 1A exit skills
Not open to students who are enrolled in or who have completed RUSS 21A-21B.
Grammar, composition and reading. Practice in speaking and understanding Russian. CSU/UC
RUSS 1A+1B = RUSS 1
RUSS 2. Continuation of Elementary Russian (5)
Lec-5, lab-2
Prereq.: RUSS 1 or 1B or Demonstration of RUSS 1/1B Exit Skills
Not open to students who are enrolled in or who have completed RUSS 22
Second semester course: Continuation of elementary grammar; composition and reading; continued practice in conversation. CSU/UC

RUSS 2A-2B. Continuation of Elementary Russian (3-3)
Lec-3, lab-2
Prereq.: FOR RUSS 2A: RUSS 1 or 1B or Demonstration of RUSS 1/1B Exit Skills
Prereq.: FOR RUSS 2B: RUSS 2A or Demonstration of RUSS 2A Exit Skills
Not open to students who are enrolled in or who have completed RUSS 22A-22B
Continuation of elementary grammar, composition and reading; continued practice in conversation. CSU/UC
RUSS 2A+2B = RUSS 2

RUSS 3. Intermediate Russian (5)
Lec-5, lab-2
Prereq.: RUSS 2 or 2B or 22 or 22B or Demonstration of RUSS 2/2B or 22/22B Exit Skills
Review of grammar and composition; reading of cultural materials; continued practice in the use and comprehension of spoken Russian. CSU/UC

RUSS 3A-3B. Intermediate Russian (3-3)
Lec-3, lab-2
Prereq.: FOR RUSS 3A: RUSS 2, 2B, 22, or 22B or Demonstration of RUSS 2/2B or 22/22B Exit Skills
Prereq.: FOR RUSS 3B: RUSS 3A or Demonstration of RUSS 3A Exit Skills
Review of grammar and composition; reading of cultural materials; continued practice in the use and comprehension of spoken Russian. CSU/UC
RUSS 3A+3B = RUSS 3

Fourth Semester Russian
Available through the cross-registration policy of the San Francisco Consortium. See the department head of the Foreign Language Department.

The 12 unit sequence of Russian 10A-10B-10C-10D permits three repeats for a total of 21 units. It is the student’s prerogative to choose which courses will be repeated.

RUSS 10A. Beginning Practical Spoken Russian (3)
Lec-3, lab-2
Not open to native speakers of Russian
Beginner’s course. Extensive oral training in Russian. Emphasis on practical vocabulary and idiom rather than on formal grammar. CSU

RUSS 10B. Continuation of Beginning Practical Spoken Russian (3)
Lec-3, lab-2
Prereq.: RUSS 10A or Demonstration of RUSS 10A Exit Skills
Open to native speakers of Russian only with the consent of the instructor
Second semester course. Extensive oral training in Russian. Emphasis on practical vocabulary and idiom. CSU

RUSS 10C. Intermediate Conversational Russian (3)
Lec-3, lab-2
Prereq.: RUSS 10B or Demonstration of RUSS 10B Exit Skills
Open to native speakers of Russian only with the consent of the instructor
Third semester course. Continuation of extensive oral training in Russian. Designed for students who wish to continue acquiring advanced skills of spoken Russian with a minimum of formal grammar. CSU

RUSS 10D. Continuation of Intermediate Conversational Russian (3)
Lec-3, lab-2
Prereq.: RUSS 10C or Demonstration of RUSS 10C Exit Skills
Open to native speakers only with the consent of the instructor
Fourth semester course. Continuation of extensive oral training in Russian. Designed for students who wish to continue acquiring advanced skills of spoken Russian with a minimum of formal grammar. CSU

RUSS 15A-15B. Advanced Russian Conversation (3-3)
Lec-3, lab-2
Prereq.: RUSS 10C or 10D or 3 or 3B or Demonstration of RUSS 10C, or 10D, 3, or 3B Exit Skills
RUSS 15A not prerequisite to RUSS 15B
Advanced conversation on Russian culture and civilization. CSU/UC

RUSS 20. Independent Studies in Russian (1-3)
Ind 2-5,10,15
Prereq.: RUSS 2 or 10C or 10D or Demonstration of RUSS 2 or 10C or 10D Exit Skills
Repeat: max. 3 units
An individualized study program for improving and increasing reading and writing skills in the Russian language. CSU/UC

RUSS 21. Elementary Russian for Bilingual Students (5)
Lec-5
Prereq.: Oral fluency in Russian
Not open to students who are enrolled in or who have completed RUSS 1
Designed for students who are effective in oral communication in Russian within their communities, but who have little and/or no formal training in the written forms of the language.
Beginner’s course for bilingual students; elementary grammar, compositions and reading; special emphasis on the written aspect of the language. CSU/UC
RUSS 21A-21B. Elementary Russian for Bilingual Students (3-3)
Lec-3 CR/NC avail.
Prereq.: For RUSS 21A: Oral fluency in Russian
Prereq.: For RUSS 21B: Oral fluency in Russian or RUSS 21A
Not open to students who are enrolled in or who have completed RUSS 1A+1B.
Beginner’s courses for bilingual students; elementary grammar, composition, and reading; special emphasis on the written aspect of the language. CSU/UC
RUSS 21A+21B = RUSS 21

RUSS 22. Continuation of Elementary Russian for Bilingual Students (5)
Lec-5 CR/NC avail.
Prereq.: Oral fluency in Russian or RUSS 21 or 21B
Not open to students who are enrolled in or who have completed RUSS 2.
Designed for bilingual students who are effective in oral communication in Russian within their communities, but who have little and/or no formal training in the written forms of the language.
Second semester course for bilingual students; continuation of elementary grammar, composition and reading; special emphasis on the written aspect of the language. CSU/UC

RUSS 22A-22B. Continuation of Elementary Russian for Bilingual Students (3-3)
Lec-3 CR/NC avail.
Prereq.: For RUSS 22A: Oral fluency in Russian or RUSS 21 or 21B
Prereq.: For RUSS 22B: Oral fluency in Russian or RUSS 22A
Designed for bilingual students who are effective in oral communication in Russian within their communities, but who have little and/or no formal training in the written forms of the language.
Not open to students who are enrolled in or who have completed RUSS 2 or 2A+2B
Second level courses for bilingual students; continuation of elementary grammar, composition, and reading; special emphasis on the written aspect of the language. CSU/UC
RUSS 22A+22B = RUSS 22

RUSS 39A-39B. Russian Literature in Translation (3-3)
Lec-3 CR/NC avail.
Adviser: Eligible for ENGL 1A
RUSS 39A not prerequisite to RUSS 39B
No knowledge of Russian required.
Reading and discussion of Russian literature in English translation. CSU/UC
RUSS 39A. Russian literature and selected authors of the twelfth to nineteenth centuries, with main emphasis on the nineteenth century.
RUSS 39B. Russian literature and selected authors of the twentieth century.

RUSS 41. Russian Culture and Civilization (3)
Lec-3 CR/NC avail.
Adviser: Eligible for ENGL 1A
No knowledge of Russian required.
A consideration of the major achievements of Russian culture as reflected in language, history, literature, the arts, philosophy, religion and daily life. CSU/UC

Sociology

Announcement of Curricula

Credit Certificate Curriculum

The curriculum for the Introduction to Human Services Certificate is designed to enhance the social case work, counseling, career planning, and employment placement skills of human services workers who are responsible for providing welfare to work assistance to welfare recipients.

The program offers human services workers an opportunity to obtain theoretical and practical knowledge which will assist them in their work. The Learning Assistance courses are focused in the areas of career selection and success. The psychology and sociology courses provide a theoretical framework for social work and also provide practical information about counseling clients with diverse backgrounds, abilities and levels of motivation.

Requirements for the Certification of Completion. The certificate requires completion of 17 units. Each course must be completed with a final grade of C or higher or Credit. No more than 6 units may be transfer credits from another academic institution.

Credit Toward Graduation. Credit earned to obtain the Certificate of Completion satisfies the Area D, Area H and Area A requirements for an A.A. degree at CCSF and course work is transferable to the California State University system. SOC 1 and PSYC 1 apply to the Area 4 IGTC requirement. PSYC 1, SOC 1 and SOC 2 all transfer to the UC system, and PSYC 1 and SOC 1 are required for junior year enrollment in the B.A. social work program at San Francisco State University.

Introduction to Human Services Certificate

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>LERN 60 Career Success and Life Planning</td>
<td>3</td>
</tr>
<tr>
<td>LERN 41 Successful Job Search Techniques</td>
<td>1</td>
</tr>
<tr>
<td>PSYC 22 or 23 Psyc of Race and Ethnic Relat</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 26 Human Relations</td>
<td>3</td>
</tr>
<tr>
<td>SOC 1 Intro to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 2 Social Deviance and Social Issues or PSYC 1 General Psyc</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>PSYC 14 Psyc of Shyness and Self Esteem</td>
<td>1</td>
</tr>
<tr>
<td>or PSYC 15 Assertive Behavior</td>
<td>1</td>
</tr>
</tbody>
</table>

Sociology

Announcement of Courses

CREDIT, DEGREE APPLICABLE COURSES:

SOC 1. Introduction to Sociology (3)
Lec-3 CR/NC avail.
Designed for general education or those students majoring in one of the behavioral sciences. Introduction to human interaction from the sociological perspective and through the utilization of sociological concepts, theories and principles. Topics include culture, socialization, organizations, deviance, stratification, institutions, population, and social change. CSU/UC/CAN
SOC 1AC. Introduction to Sociology: Focus on American Cultures (3)
Lec-3 CR/NC avail.
Introduction to human interaction, the sociological perspective, social processes, social structure, and social analysis through the study of three cultures from five of the following groups: African American, Asian/Pacific Islander, Chicano/Latino, Native American, and European American. CSU/UC

SOC 2. Social Deviance and Social Issues (3)
Lec-3 CR/NC avail.
Description and analysis of deviance in the United States. Crime, drug abuse, prostitution, child abuse, rape, mental disorder and other forms of deviance are discussed in terms of socio-psychological processes and effects, changing society and the politics of deviance. CSU/UC/CAN

SOC 25. Sex and Gender in American Society (3)
Lec-3 CR/NC avail.
How social institutions such as education, family, work, law, etc. affect women and men differently; how gender roles influence self-concept as well as educational opportunities. Examines the contemporary status of all American women, including African American, Latina, and Asian American, in terms of differences and similarities. The strategies, policies, and laws necessary to eliminate sexism from society and to create alternatives for women and men. CSU/UC

SOC 28. Dying and Death in Society (3)
Lec-3 CR/NC avail.
Helpful for those in medical care, social services, counseling or for personal enrichment. Study of the various death systems common in America with special focus on San Francisco. Beliefs, attitudes, anxieties, and behaviors associated with dying, death and bereavement in terms of sociological theory. Guest speakers, film, history and literature are integrated in an interdisciplinary approach to cultural studies. CSU

SOC 30. Social Psychology (3)
Lec-3 CR/NC avail.
The dynamics of human behavior from the perspective of social psychology, emphasizing the social-psychological orientations of contemporary sociology. Investigation of interaction processes in the person-environment relationship. Topics such as communication, socialization, role taking, self-identity, personal organization, and social structure. CSU/UC

SOC 35. Sex, Marriage, and Family Relationships (3)
Lec-3 CR/NC avail.
A cross-cultural and cross-social study of family relationships, their development and diversity. Focus on family structure and on the functions of family relations, both contemporary and historical, in such areas as sex, reproduction, child-rearing, economics and social support; family problems and marital dissolution. CSU/UC

Lec-1,2,3, field trips CR/NC avail.
Repeat: if no subject repeat
Exploration of topics of current interest and innovations in sociology. CSU/UC

Spanish

Announcement of Courses

Students of beginning Spanish are directed to consider Spanish courses numbered 1, 1A, and 10A.

CREDIT, DEGREE APPLICABLE COURSES:

SPAN 1. Elementary Spanish (5)
Lec-5, lab-2 CR/NC avail.
Advise: ENGL 94 or higher or ESL 82 or higher or any City College or university foreign language course.
Beginner's course. Grammar, composition and reading. Practice in speaking and understanding Spanish. CSU/UC/CAN

SPAN 1A-1B Elementary Spanish (3-3)
Lec-3, lab-2 CR/NC avail.
Prereq.: for SPAN 1B: SPAN 1A or demonstration of SPAN 1A exit skills
Advise: ENGL 94 or higher or ESL 82 or higher or any City College or university foreign language course
Grammar, composition and reading. Practice in speaking and understanding Spanish. CSU/UC/CAN
SPAN 1A+1B = SPAN 1

SPAN 2. Continuation of Elementary Spanish (5)
Lec-5, lab-2 CR/NC avail.
Prereq.: SPAN 1 or 1B or demonstration of SPAN 1/1B exit skills
Second semester course: Completion of elementary grammar. Composition and reading. Continued practice in conversation. CSU/UC/CAN

SPAN 2A-2B. Continuation of Elementary Spanish (3-3)
Lec-3, lab-2 CR/NC avail.
Prereq.: for SPAN 2A: SPAN 1 or 1B or demonstration of SPAN 1/1B exit skills
Prereq.: for SPAN 2B: SPAN 2A or demonstration of SPAN 2A exit skills
Completion of elementary grammar. Composition and reading. Continued practice in conversation. CSU/UC/CAN
SPAN 2A+2B = SPAN 2

SPAN 3. Intermediate Spanish (5)
Lec-5, lab-2 CR/NC avail.
Prereq.: SPAN 2 or 2B or demonstration of SPAN 2/2B exit skills

SPAN 3A-3B. Intermediate Spanish (3-3)
Lec-3, lab-2 CR/NC avail.
Prereq.: SPAN 2 or 2B or demonstration of SPAN 2/2B exit skills
SPAN 3A not prerequisite to SPAN 3B
SPAN 3A+3B = SPAN 3
SPAN 4. Introduction to Literature in Spanish (3)
Lec-3, lab-1 CR/NC avail.
**PREREQ.: SPAN 2 or 2B or demonstration of SPAN 2/2B EXIT SKILLS**
SPAN 3 not prerequisite to SPAN 4.
Readings of literary and cultural selections; composition; review of selected grammar. Conducted in Spanish. CSU/UC/CAN

SPAN 5-5S. Advanced Spanish: Conversation on Hispanic Culture and Civilization (3-3)
Lec-3, lab-1 CR/NC avail.
**PREREQ.: SPAN 2 or 2B or demonstration of SPAN 2/2B EXIT SKILLS**
SPAN 5 not prerequisite to SPAN 5S.
Readings in and discussions of Hispanic Civilization: Spain and Latin America. Exclusively oral training to acquire greater command of the spoken language through building vocabulary, improving pronunciation and expressing ideas in a more natural manner. Conducted in Spanish. CSU/UC
**SPAN 5. Paleolithic Period to the Golden Age**
**SPAN 5S. Golden Age to Present**

The 12 unit sequence of Spanish 10A-10B-10C-10D permits three repeats for a total of 21 units. It is the student's prerogative to choose which courses will be repeated.

SPAN 10A. Beginning Conversational Spanish (3)
Lec-3, lab-2 CR/NC avail.
**Advising: Concurrent enrollment in SPAN 1, 1A or 1B**
Not open to native speakers of Spanish.
Beginner's course. Intensive oral practice of basic structures and vocabulary most often used in conversation. Designed for students who wish to acquire basic skills of spoken Spanish. CSU

SPAN 10B. Continuation of Beginning Conversational Spanish (3)
Lec-3, lab-2 CR/NC avail.
**PREREQ.: SPAN 10A or demonstration of SPAN 10A EXIT SKILLS**
**Advising: Concurrent enrollment in SPAN 2, 2A, or 2B**
Not open to native speakers of Spanish.
Second semester course: Extensive oral practice of basic structures and vocabulary most often used in conversation. Designed for students who wish to acquire basic skills of spoken Spanish. CSU

SPAN 10C. Intermediate Conversational Spanish (3)
Lec-3, lab-2 CR/NC avail.
**PREREQ.: SPAN 10B or demonstration of SPAN 10B EXIT SKILLS**
**Advising: Concurrent enrollment in SPAN 3 or 4**
Not open to native speakers of Spanish
Third semester course: Extensive oral practice of basic structures and vocabulary most often used in conversations. Designed for students who want to acquire more advanced skills of spoken Spanish. CSU

SPAN 10D. Continuation of Intermediate Conversational Spanish (3)
Lec-3, lab-2 CR/NC avail.
**PREREQ.: SPAN 10C or demonstration of SPAN 10C EXIT SKILLS**
Advising: Concurrent enrollment in SPAN 3, 3A, 3B, 4, or 5
Not open to native speakers of Spanish
Fourth semester course. Extensive oral practice of basic structures and vocabulary most often used in conversation. Designed for students who wish to acquire basic skills of spoken Spanish. CSU

SPAN 31-32. Intermediate Spanish for Bilingual Students (5-5)
Lec-5 CR/NC avail.
SPAN 31 not prerequisite to SPAN 32
Spans fluency in Spanish
Intensive review of grammar. Composition and translation. Designed for bilingual students who are effective in oral communication in Spanish within their communities, but have little knowledge of formal training in written forms of the Spanish language. Emphasis on increasing vocabulary, reading, and writing skills through short stories, essays, and guided compositions. CSU/UC

SPAN 31A-31B. Intermediate Spanish for Bilingual Students (3-3)
Lec-3 CR/NC avail.
**Advising: Oral fluency in Spanish**
Intensive review of grammar. Composition and translation. Designed for bilingual students who are effective in oral communication in Spanish within their communities, but have little knowledge of formal training in written forms of the Spanish language. Emphasis on increasing vocabulary, reading and writing skills through short stories, essays and guided compositions. CSU/UC
SPAN 31A-31B = SPAN 31

SPAN 39A-39B. Contemporary Spanish American Literature in Translation (3-3)
Lec-3 CR/NC avail.
**Advising: Eligible for ENGL 1A**
SPAN 39A not prerequisite to 39B
No knowledge of Spanish required
Reading and discussion of representative works in English translation. CSU/UC
**SPAN 39A. Contemporary Spanish American literature from the late 19th century to 1940.**
**SPAN 39B. Contemporary Spanish American literature from 1940 to the present.**

SPAN 39C-39D. Spanish Literature in Translation (2-3)
Lec-3 CR/NC avail.
**Advising: Eligible for ENGL 1A**
SPAN 39C not prerequisite to 39D
No knowledge of Spanish required
Reading and discussion of representative works of peninsular Spanish literature in English translation. CSU/UC
**SPAN 39C. Spanish literature from its beginnings through the Renaissance and Golden Age.**
**SPAN 39D. Spanish literature of the 19th and 20th centuries.**
SPAN 41. Culture and Civilization of Spain (3)  
Lec-3  
Advising: Eligible for ENGL 1A  
No knowledge of Spanish required  
Aspects and achievements of the culture and civilization of Spain as reflected in its geography, history, language, literature, governmental and social institutions, art, architecture, music, religion, and daily life. CSU/UC

Speech Communication

Announcement of Curricula

Certificate in Speech Communication

<table>
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<th>Course</th>
<th>Units</th>
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<tr>
<td>SPCH 12. Fund of Oral Comm</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 4. Group Comm</td>
<td>3</td>
</tr>
<tr>
<td>or SPCH 20. Interper Comm</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 1A. Elem of Public Spkng</td>
<td>3</td>
</tr>
<tr>
<td>or SPCH 11. Basic Public Spkng</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 3. Argument and Debate</td>
<td>3</td>
</tr>
<tr>
<td>or SPCH 37. Intracollegiate Sph Comp</td>
<td>3</td>
</tr>
<tr>
<td>or SPCH 38. Intercollegiate Sph Comp</td>
<td>3</td>
</tr>
</tbody>
</table>

Speech Communication

Announcement of Courses

CREDIT, DEGREE APPLICABLE COURSES:

SPCH 1A. Elements of Public Speaking (3)  
Lec-3  
Advising: ENGL 96 or placement in ENGL 1A  
Training in research, organization, and delivery of extemporaneous speeches. Focus on audience analysis, detailed speech outlining, evidence testing, delivery, and visual aids. CSU/UC/CAN

SPCH 3. Argumentation and Debate (3)  
Lec-3  
Advising: Completion of ENGL 96 or placement in IA  
Primary emphasis on argumentation as the study of analysis, evidence, reasoning, refutation, and rebuttal, etc. in oral and written communication. Significant component of instruction in oral argumentation. Critical Thinking approaches to commercial, legal, political, and academic argumentation and persuasion. CSU/UC

SPCH 4. Group Communication (3)  
Lec-3  
Advising: ENGL 96 or placement in ENGL 1A  
Training in the basic methods and principles of problem-solving, leadership, decision making, and critical thinking through group communication; methods of inquiry and advocacy for participation in group discussions and presentations. CSU/UC

SPCH 11. Basic Public Speaking (3)  
Lec-3  
Discussion of and practice in effectively organizing and presenting ideas in public speaking situations; training and practice in critical analysis and overcoming speaking anxiety. CSU

SPCH 12. Fundamentals of Oral Communication (3)  
Lec-3  
CR/NC avail.  
An introduction to the theory, basic principles, and methods of oral communication with emphasis on improving speaking and listening skills in the context of interpersonal communication, small group discussion, and public speaking. CSU

SPCH 20. Interpersonal Communication (3)  
Lec-3  
CR/NC avail.  
Focus on the impact that communication has on the interaction between individuals in settings including family, friendship, intimate and work situations. Students are expected to demonstrate and apply these skills through individual and group presentations and activities. CSU/UC

SPCH 37. Intracollegiate Speech Competition (3)  
Lec-3, lab-3  
CR/NC avail.  
Advising: SPCH IA, 3, 4, 11, 12 or ESL 79  
Repeat: max. 6 units  
Student competition in intracollegiate forensics tournaments in the following areas: persuasive, informative, or impromptu speaking, and oral interpretation of literature (prose, poetry, drama, interpreter's theater). Development of public speaking skills while being a member of a team. CSU

SPCH 38. Intercollegiate Speech Competition (3)  
Lec-3, lab-3  
CR/NC avail.  
Advising: SPCH IA, 3, 4, 11, 12 or ESL 79  
Repeat: max. 6 units  
Student competition in intercollegiate forensics tournaments in one or more of the following areas: parliamentary debate, cross-examination debate; oral interpretation; informative, persuasive, speech to entertain; communication analysis, impromptu, and extemporaneous speaking; interpretive theater. Development of public speaking skills while being a member of a team. CSU

Student Leadership

Announcement of Courses

CREDIT, DEGREE APPLICABLE COURSES:

S L 10. Student Government (1)  
Work-2  
Repeat: max. 4 units  
Training in the governance of student activities and representation/advocacy of student concerns. Learning to participate in and chair meetings, allocate funds, and implement agreed upon projects. Students will attend and participate in Associated Student Council meetings, Inter-Club Council meetings, and/or shared governance meetings to receive credit for this course. CSU

S L 12. Leadership Skills (3)  
Lec-3  
CR/NC avail.  
Examination of the principles of leadership and their application to Associated Students Council, clubs, and activities. Specific leadership skills include chairing meetings, organizing events and campaigns, communicating effectively, working collaboratively, resolving conflicts, balancing priorities, and managing one’s time. Leadership styles, functions and approaches will be discussed and evaluated. CSU
Announcement of Courses

CREDIT, DEGREE APPLICABLE COURSES:

TH A 1. Introduction to Theatre (3)
Lec-3, field trips
Repeat: max. 9 units
Designed to compare, contrast and examine the aspects of live theatre including dramatic structure, theater production, history and performance. CSU/UC

TH A 3A. Introduction to Make-up and Costume Design (3)
Lec-2, lab-4
CR/NC avail.
Introductory instruction and practical experience in the study of facial and body anatomy, facial design, make-up materials, construction and decorative materials for costumes, theory of color, study of play scripts, laboratory/shop practice and participation in theatre productions. CSU/UC

TH A 3B. Intermediate Make-up and Costume Design (3)
Lec-2, lab-4
CR/NC avail.
Intermediate instruction and practical experience in the study of facial and body anatomy, facial design, make-up materials, construction and decorative materials for costumes, theory of color, study of play scripts, laboratory/shop practice and participation in theatre productions. CSU/UC

TH A 3C. Advanced Make-up and Costume Design (3)
Lec-2, lab-4
CR/NC avail.
Advanced instruction and practical experience in the study of facial and body anatomy, facial design, make-up materials, construction and decorative materials for costumes, theory of color, study of play scripts, laboratory/shop practice and participation in theatre productions. CSU/UC

TH A 17. Multicultural Theater (3)
Lec-3
CR/NC avail.
Evaluation and demonstration of the importance of the origins of the Asian, African and Latin theatre in the development of the Asian American African American and Latin American cultures that form part of the American society of today. CSU/UC

TH A 19. Latin American Theater (3)
Lec-3, field trips
Recognize, analyze and appraise the importance of the Latin American theatre as a historical record of realities and dreams through the work of its playwrights. CSU/UC

TH A 22. Acting Shakespeare: Text Analysis and Performance (3)
Lec-3, field trips
Advise: TH A 101 or demonstration of exit skills
Repeat: Vis. & Perf. Arts repeat, max. 9 units
Use of scansion and verse techniques to perform Shakespearean material. Historical, textual, and analytic skills used in an ensemble setting to re-create characters specifically from the dramatic works of William Shakespeare. CSU

TH A 50. Play Rehearsal and Presentation (1-3)
Lec-3,6,9, field trips
Repeat: max. 12 units
The preparation and interpretive training process that goes into rehearsal and performance presentation in a Theatre Arts Department production. Students must audition for, be cast in, rehearse and perform in the plays in order to receive credit. CSU/UC

TH A 101. Beginning Acting (3)
Lec-3
Repeat: max. 9 units
Examination, practice and execution of the fundamentals of acting. Staging techniques, improvisation, theatre games, stage movement, and introduction to acting terminology. Classroom presentation of scenes and monologues. CSU/UC/CAN
Formerly TH A 10A

TH A 102. Character Development and Scene Study (3)
Lec-3
Advise: TH A 101
Repeat: max. 9 units
Analyze, develop and create believable characters, and portray them in class. Concentration in studying scene evolution from selected plays. CSU/UC
Formerly TH A 10B

TH A 103. Performance Projects (3)
Lec-3
Advise: TH A 101 and 102 or demonstration of exit skills
Repeat: max. 9 units
Development of class projects and workshops that will be performed in a studio setting. Investigation of the development of performance skills as they relate to the audience and to specific studio space. CSU/UC
Formerly TH A 10C

TH A 104. Survey of Classical Drama (3)
Lec-3
An introductory survey to the world’s great classical plays. Investigates Greek, Roman, Medieval, Renaissance, and 18th century pieces. CSU/UC

TH A 105. Survey of Modern Drama (3)
Lec-3
An introductory survey to the world’s great modern plays. Begins with Henrik Ibsen and explores world trends in playwriting and performance to the present times. CSU/UC

TH A 107. Directing for the Theatre (3)
Lec-3
Repeat: max. 9 units
Examination of the function of a stage director and the techniques of stage direction with opportunities for practical experience. CSU/UC
Formerly TH A 7

TH A 116. Acting for the Camera (3)
Lec-3, lab-4, field trips
Repeat: max. 12 units
Development of performing skills for video, film and electronic media applications with emphasis on dramatic characterization in a production context. CSU/UC
Formerly TH A 16
TH A 121. Improvisation for Actors (3)
Lec-3
Repeat: max. 9 units
An acting class focusing on the creation of original material by the
performers for presentation through the techniques of improvisation
and scenario. Actor generated narrative and playcripts developed
by the actor in an ensemble environment. CSU

TH A 123. Vocal Production and Audition (3)
Lec-3
Repeat: max. 12 units
Introduction to the anatomy and physiology of the vocal me-
chanism. Development of voice and articulation with an emphasis on
Standard American English for the stage to develop the actor’s
process in preparation for audition, selection of materials, and pre-
sentation of self in various audition settings. CSU
Formerly TH A 23

TH A 124. Physical Comedy, Masks and Clowning (3)
Lec-3, field trips
PREREQ: TH A 101
Repeat: max. 9 units
Development of the acting skills focusing on clowning; the creation
and use of masks, with special attention to the physical characteris-
tics of comic acting and an introduction to circus skills. Topics
include the origins and uses of masks, tragic and comic masks, the
foul and origin of the clown, and the performer’s historical uses of
these acting tools. CSU

TH A 129. Storytelling (3)
Lec-3, field trips
Repeat: max. 9 units
Development of the acting skill of storytelling through performance
exercises, improvisations, and uses of the literature of folklore,
myth, and monologue focusing on narrative, creation of character,
and the telling of stories. CSU

TH A 143. Character Voices: Voice-Over (3)
Lec-3
Advis: TH A 101
Repeat: max. 12 units
An acting skill class focusing on the vocal aspects of commercial
acting. Development of the actor’s voice to be used in the recorded
media for commercial and industrial purposes, selection of mate-
rials and practical application for the creation of characters. CSU

TH A 145. Performance Art New Media Workshop (3)
Lec-3, lab-3
Advis: IDST 125
Repeat: max. 12 units
Development of performance art pieces focusing on the integration
of state-of-the-art digital art, computer software and hardware used
for theatrical and electronic music productions with performers and
scripted presentation. CSU

See also IDST - Multimedia Studies - Multimedia Performance Arts
Concentration

TH A 200. Theatre Production (3)
Lec-3, lab-3
CR/NC avail.
Repeat: max. 9 units
Instruction and practical experience in stage scenery construction,
stage properties selection, lighting execution, sound design and
stage management through participation in theatre productions.
CSU/UC
Formerly TH A 2A-2B-2C

Related Courses:
MUS 44. Music Theatre Workshop (3)
BCST 115. Announcing and Performance (3)
BCST 140. Video Production (3)
IDST 38. Shakespeare: “for all time” (3)
SPCH 38. Intercollegiate Speech Competition (3)
P E courses in fencing, modern and folk dance, and ballet.

See listings for course description.

Trade Skills

Announcement of Curricula

All courses offered by the Trade Skills Department are without
college credit.

Apprenticeship courses may be found under “Apprenticeship” in
this section of the Catalog.

Subject areas in Trade Skills may require a special materials fee.
Check with the Department office at 550-4409.

Building Operation - Maintenance and Repair

Length of the program is 800 hours. Of these hours, 525 hours are
core courses and the remaining hours must be from the elective
courses listed below.

Core courses must be taken in the first two semesters of study.

<table>
<thead>
<tr>
<th>Core Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIAP 9501 Refrigeration/Air Condition I</td>
<td>105</td>
</tr>
<tr>
<td>TIAP 9502 Refrigeration/Air Condition II</td>
<td>105</td>
</tr>
<tr>
<td>TIEE 9572 DC Electricity</td>
<td>105</td>
</tr>
<tr>
<td>TIXX 9503 Boiler Theory, Oper &amp; Maint</td>
<td>105</td>
</tr>
<tr>
<td>TIXX 9571 AC Electricity</td>
<td>105</td>
</tr>
<tr>
<td>Total</td>
<td>525</td>
</tr>
</tbody>
</table>

Electives (select 3)

<table>
<thead>
<tr>
<th>Elective</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TICU 9550 Custodial Training</td>
<td>105</td>
</tr>
<tr>
<td>TIEE 9573 Electronic Basic Controls</td>
<td>105</td>
</tr>
<tr>
<td>TIEE 9574 Electrical Code and Constr Practice</td>
<td>105</td>
</tr>
<tr>
<td>TIXX 9504 Instruments for HV &amp; AC</td>
<td>105</td>
</tr>
<tr>
<td>TIXX 9505 Plumbing Applications</td>
<td>105</td>
</tr>
<tr>
<td>TIXX 9701 Haz Matls Training</td>
<td>105</td>
</tr>
<tr>
<td>LAIR 9809 Labor Rel in Select Indus</td>
<td>105</td>
</tr>
<tr>
<td>Total</td>
<td>735</td>
</tr>
</tbody>
</table>

Grade requirements: Students must have 85% of the required
hours for the certificate with a grade of C or better.
**Business Machine Technology**

**Computerized Machine Technology**

**Program Goal.** Prepares students for employment in the maintenance and servicing of business equipment including photo-copiers and computer-oriented electronics.

**Admission Requirements.** 10th grade level reading, writing and math skills. For more information call 239-3505.

**Length of Program.** Two semesters

**Core Course**  
TIIBM 9543 Computerized Mach Tech .......... 25/35

**Requirements for Completion.** Successful completion of all courses with a C average or higher and minimum of 80% attendance.

### Construction Trade

Length of the program is 800 hours. Of these hours, 601 hours are core courses and the remaining hours must be from the elective courses listed below.

Core courses must be taken in the first two semesters of study.

**Core Course**  
TI DDR 9564 Mechanical Drawing - All Levels..... 180  
TIIX 9699 Furnituremaking and Woodworking ....... 108  
TIIX 9704 Intro to Constr Trades, A .............. 72  
TIIX 9705 Intro to Constr Trades, B .............. 72  
TIIX 9706 Intro to Constr Trades, C .............. 72  
TIIX 9708 Carpentry Framing (Rough) ............. 105  
Total .............................................. 601

**Electives**  
TI DDR 9567 Intro to Comp Aided Draft ............. 180  
TIIX 9568 Blueprint Reading, Constr ............. 105  
TIIE 9574 Electrical Code and Constr Practice ... 105  
TIIX 9505 Plumbing Applications .................. 105  
TIIX 9701 Haz Mat’s Handling ..................... 105  
TIIX 9707 Ext & Int Finishes ...................... 105  
LAIR 9809 Labor Rel in Select Indus ............. 105  

**Grade requirements:** Students must have 85% of the required hours for the certificate with a grade of C or better.

### Electronics Technician

**Program Goal.** Prepares students for entry-level employment as electronics technicians or Radio-TV service or repair persons. Curriculum includes fundamentals of electricity, electronic equipment, occupational safety, electric and electronic circuits, relays, test equipment, vacuum tube circuits, television and VCR repair.

**Admission Requirements.** High school diploma, GED, or high school proficiency certificate and demonstration of 8th grade reading, math, and language level. For more information call 550-4409.

<table>
<thead>
<tr>
<th>Core Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIEE 9572 D.C. Electricity ..................</td>
<td>108</td>
</tr>
<tr>
<td>TIEE 9571 A.C. Electricity ..................</td>
<td>108</td>
</tr>
<tr>
<td>TIEL 9590 Electronic Theory &amp; Tech ..........</td>
<td>216</td>
</tr>
<tr>
<td>TIRT 9666 TV Service Repair: Fund ..........</td>
<td>108</td>
</tr>
<tr>
<td>TIRT 9667 TV Service Repair: Adv &amp; VCR ......</td>
<td>108</td>
</tr>
<tr>
<td>SECY 9356 Bus Math ................................</td>
<td>90</td>
</tr>
<tr>
<td>Total ..............................................</td>
<td>738</td>
</tr>
</tbody>
</table>

### Industrial Machinery

**Program Goal.** Preparation for entry-level employment in the mechanical trades. Curriculum includes industrial mechanics, blueprint reading, electricity, sheet metal, basic machining, welding, tool identification, precision measuring instruments, hydraulics, pneumatics, shop safety, and shop math. For more information call 239-3905.

**Admission Requirements.** None

**Core Course**  
TIIM 9641 Ind Maint Mech ...................... 4 x 270 hr  
Total .............................................. 1,080

**Elective Courses.** To be discussed with counselor.

**Requirements for Completion.** Completion of required hours with a grade of C or higher.

### Trade Skills

#### Announcement of Courses

**NONCREDIT COURSES:**

### Appliances

TIAP 9500. Gas Appliance/Valve Control  
Skills, knowledge and practices for the safe installation, maintenance, repair and operation of natural gas appliances and combustion devices.

**TIAP 9501. Refrigeration/Air Conditioning I (105 hrs)**  
Advise: GED 2105 or equivalent  
Introductory course in the theory and fundamental operations of the refrigeration system, components and electrical controls. Preparation for continuing to Refrigeration and Air Conditioning II.

**TIAP 9502 Refrigeration/Air Conditioning II (105 hrs)**  
Advise: TIAP 9501 or equivalent  
Intermediate course in the troubleshooting of the operations of commercial and automotive refrigeration systems, components and electrical controls. Preparation for employment in the Stationary Engineering Apprenticeship, HVAC maintenance helper or utility person.

### Business Machine Technology

TIIBM 9543. Computerized Machine Technology/Electronics (225 hrs)  
Advise: ABE 2070 and 2074  
DC and AC circuits, semiconductors, digital hardware, machine level programming, and a proficiency in microcomputer software.
TIBM 9550. Introduction to Office Machine Repair
Advised: ESLN 3700
An overview of the principles and fundamental concepts of electronics and mechanics, as related to office machine repair. Includes use of tools, use of scientific calculator basic math for electronics, overview of AC/DC and digital electronics, circuit building and testing, use of voltmeter and oscilloscope, and use of computers.

TIBM 9551. Introduction to Copier Repair
Advised: ESLN 3700
Introduction to the concepts, terminology, components, schematic reading, troubleshooting and repair of modern micro-processor controlled copiers. Includes hands-on labs and use of tools.

TIBM 9553. AC/DC Electronics - Introduction (105 hrs)
Advised: TIBM 9550 and ESLN 3700
A lecture/lab course in which the students learn the fundamentals of series and parallel circuits, theory of current and voltage, identification and use of resistors, capacitors and inductors. Hands on experience building circuits and taking current and voltage measurements using meters and oscilloscopes.

TIBM 9554. Solid State Electronics - Introduction
Advised: TIBM 9553
A lecture lab course exploring the operation and design of semiconductor electronics devices. Timing and control circuits with industrial applications will be designed and constructed.

TIBM 9555. Digital Electronics Introduction
Advised: TIBM 9550 and ESLN 3700
Theory and construction of basic digital circuits, including gates, counters, shift registers, encoders and decoders, arithmetic and memory elements in small scale integrated circuits. Number systems, Boolean algebra and digital troubleshooting will also be discussed.

TIBM 9556. Microprocessor Concepts
Advised: ESLN 3700
A lecture/lab course using model 6502 microprocessor trainers to demonstrate universal and practical concepts of microprocessor operation and assembly language programming. Both software and hardware elements will be introduced.

TIBM 9557. Microcomputer Repair Introduction
Advised: TIBM 9558 and ESLN 3800
The theory and operation of the IBM PC and compatibles from a technical point of view. Assembly, maintenance, troubleshooting and simple repairs of PC components and peripherals including keyboard, disk drives, and power supplies. Voltmeter, scope and software diagnostics programs will be used to troubleshoot simple repairs.

TIBM 9558. Introduction to Computers - Technical
Advised: SECY 9388 and ESLN 3700
Introduction to the operation of the IBM PC computer, including microcomputer architecture, DOS, BASIC, microprocessor differences, utilities diagnostic routines, and applications programs. Students must plan to spend additional time in the computer labs in order to gain proficiency.

TIBM 9559. Build a Clone Computer (105 hrs)
Advised: ESLN 3700
A step by step description and demonstration of all procedures necessary to select, purchase, assemble, configure, test and maintain an IBM PC compatible system built from component parts.

Construction

TIXX 9704. Introduction to the Construction Trades A (72 hrs)
Recommended for non-traditional and re-entry students
Basic knowledge and skills necessary in the construction trades. Identification of tools and building materials and how to handle them safely. Becoming acquainted with the variety of trades and apprenticeships in construction and with the roles of people on building projects and how the building team relies on project plans and specifications for information. Completion of several small projects in wood and concrete requiring use of measuring, hand, and power tools.

TIXX 9705. Introduction to the Construction Trades B (72 hrs)
Advised: ABE 2074 or ESLN 3800; TIXX 9704
Recommended for non-traditional and re-entry students
Additional basic knowledge and skills necessary for the construction trades. Further identification of tools and building materials and how to handle them safely. Completion of several small projects in carpentry, electricity, plumbing, and sheet metal requiring use of measuring, hand, and power tools.

TIXX 9706. Introduction to the Construction Trades C (72 hrs)
Advised: ABE 2074 or ESLN 3800; TIXX 9705
Recommended for non-traditional and re-entry students
Additional basic knowledge and skills for the construction trades. More identification of tools and building materials and their safe handling. The roles played by the people that build a project and how the team relies on project plans and specifications for information. Completion of several small carpentry, drywall, painting, and waterproofing projects using measuring, hand, and power tools.

TIXX 9707. Exterior and Interior Finishes (105 hrs)
Advised: ABE 2074 or ESLN 3800
Introduction to the tools, materials, and processes used in finishing exterior and interior surfaces. Projects include installation, taping, and texturing of drywall; application of plaster, installation of flashing and roofing materials, installation of ceramic and resilient tile, and the selection and application of paint and related products. Also includes safe use of ladders, scaffolding, and personal safety equipment and how to read and interpret material safety data sheets.

TIXX 9708. Carpentry Framing (Rough) (105 hrs)
Skills and modern techniques to do framing construction to industry standards. Emphasis on blueprint reading; appropriate tools, machines, and equipment; and framing techniques for floors, walls, ceilings, and roofs. Light frame construction for pre-apprentices and/or do-it-yourself persons.

Custodial

TICU 9550. Custodial Training (108 hrs)
Preparation for employment in the custodial field. Areas include floor care, custodial tools, equipment, methods, supplies, and custodial terminology.
TICU 9553. Carpet Care (108 hrs)
Advis: TICU 9550 or equivalent
Extensive discussion on carpets. Subject areas include: history of carpet, methods of carpet construction, identification of fibers, chemistry of cleaning, soiling, carpet and upholstery cleaning methods, techniques of dyeing, and topical treatment. Involves hands-on practices.

TICU 9554. Basic Custodial Skills (48 hrs)
Basics of custodial cleaning skills. Foundation in the chemistry of cleaning, cleaning supplies, material and equipment, floor cleaning machine, mopping techniques, restroom care, dusting, wall washing, commercial office cleaning, work safety, union role in custodial industry.

Drafting

TIDR 9564. Mechanical Drawing - All Levels (180 hrs)
Advis: ABE 2074; ESLN 3500
Practical skills and theory needed for drafting and their applications in industry. Includes instrumental drawing, lettering techniques, freehand sketching, multiview and pictorial projection, dimensioning techniques, development and layout, and working drawings.

TIDR 9565. Mechanical Drawing I (180 hrs)
Introduction to drafting. Emphasis on mechanical/machine applications. Topic areas include conventional lines, lettering technique, freehand sketching, instrumental drawing, orthographic projection, and dimension techniques.

TIDR 9566. Mechanical Drawing II (180 hrs)
Advis: TIDR 9565
Development of drafting skills. Emphasis on mechanical/machine applications of working drawings including details and assembly. Includes sectional and auxiliary views, graphic primary revolutions, review of dimensioning techniques, isometric, oblique, and perspective projections, intersections and development layouts. Includes use of computer-aided drafting.

TIDR 9567. Introduction to Computer Aided Drafting (CAD) (180 hrs)
Concepts and operation of visual engineering drawing preparation using a computer (CAD). Introduction to hardware and software operations applications in drafting. Common ways used for initial data entry will be studied. Common methods to retrieve programs and store drawings will be used. Assignments accomplished with conventional drafting techniques.

TIDR 9568. Blueprint Reading (Construction)
Basic print reading of construction drawings. Includes print reading basics, materials and specifications; print reading; estimating; and symbols and abbreviations.

Electricity and Energy Conservation

TIEE 9571. Electrical AC Electricity (108 hrs)
Basic knowledge and skills necessary to enter basic electronics and telecommunications programs. Introduction to the principles of AC electricity, motor theory and generators, and analysis and construction of electronic circuits using inductance, capacitors, relays, and resistors. Laboratory includes the operation of signal generators, power supplies oscilloscopes, and VTVMs.

TIEE 9572. DC Electricity (108 hrs)
Advis: ESLN 3800
Study and practice of direct current electricity including applied mathematics, recommended safety practices and a conceptual approach to direct current electricity.

TIEE 9573. Electrical Basic Controls
Further development of knowledge and skills necessary for promotion in the electrical industry. Fundamentals of controls, control of motor study, control components, pilot devices, control circuit diagrams, analysis of control equipment, DC circuit development, and static control.

TIEE 9574. Electrical Code and Construction Practices (105 hrs)
Requirements for State Licensed Contractors. Includes: electrical safety, vocabulary, terms, distributing electrical power, house services, house circuits, installing wiring, remodeling wiring, connection (hook-ups) for appliances and devices, application and procedures for permits.

TIEE 9575. Energy Conservation/Management
Recent trends and techniques in the field of energy and its management. Saving money through energy conservation, denoting changes in heating, cooling, and lighting, and setting up an energy conservation program at work.

TIEE 9576. Electrical Applications in Construction (105 hrs)
Includes: electrical safety, vocabulary, terms, distributing electrical power, house service, house circuits, installing wiring, remodeling wiring, connection (hook-ups) for appliances and devices, application and procedures for permits.

Electronics

TIEL 9590. Electronics I Theory and Technology
Presentation of solid state theory: diodes, zeners, LEDs, transistors, FETs, SCRs, and ICs. Circuit analysis using solid state theory will be applied to power supplies (half wave, full wave, regulated) and audio amplifiers. This course will include the construction of circuits and the analysis and problem-solving of their functions using laboratory test equipment.

TIEL 9592. Electronics 2
Topics include tuning, coupling, and filtering circuits; frequency response of amplifiers; modulation and demodulation; fundamentals of logic; integrated circuits and types and sources of wave forms.

TIEL 9594. Digital/Computer Electronics
Advis: ABE 2074 and 2075
An introduction to computers which make use of digital logic. Emphasis on the technical aspects of logic circuits for computers rather than programming. Simple logic gates are expanded into counters, memories, registers, and arithmetic units as utilized in computers. Units are adapted to show the structure of microcomputers and microprocessors.

Industrial Machinery

THIM 9640. Machine Shop Practices
Use of hand tools and measuring devices, shop safety, drawings, blueprints, shop mathematics, precision tools, power saws, bench work and operations, drill press, lathe, milling machine, grinders and other general machine shop tools, devices and equipment.
TIIM 9641. Industrial Maintenance Mechanics  
Advis.: ESLN 3800; ABE 2074  
Preparation for entry-level employment in the mechanical trades. Instruction includes: mechanics, blueprint reading, electricity, sheet metal, basis gas welding, tool identification, precision measuring instruments, hydraulics and pneumatics, shop safety, and shop math.

TIIM 9644. Industrial Maintenance - Introduction  
Advis.: ESLN 3800; ABE 2074  
Introduction to electro-mechanical trades, including topics such as electricity, mechanics, welding, blue print reading, machining and shop safety.

Radio and Television Repair

TIRT 9666. TV Service/Repair - Fundamentals (108 hrs)  
Television servicing and repairing including basic electronics for television, television receivers, use of test equipment and practices for troubleshooting in television servicing and repairing and the adjustment of television sets. Units of instruction include: scanning and synchronizing, video signal picture carrier signal, television receivers, picture tube, power supplies, video circuit, color and auto circuit, sound and others.

TIRT 9667. TV Service/Repair - Advanced and VCR (108 hrs)  
Study of and practice in the advanced theory of checking, analyzing, servicing and repairing TVs and VCRs, troubleshooting methods, analyzing circuits and voltages, transistor testing and solid-state servicing, color set adjustments, remote control special effects and features systems, controls and others.

Sanitation

TISA 9670. Cross-Connection Control  
Backflow, rules, regulations, and methods of backflow prevention, and components of a cross-connection control system.

Transportation Academy

CREDIT COURSES:

TITA 56. Railroad Operations (3)  
Lec-3, field trips  
This course examines the railroad industry’s major assets, organizational structure, and typical operations. Emphasis is placed on the current characteristics of North American railroads, basic operating processes in the transportation, mechanical and engineering functional areas, and administrative processes in the non-operating areas. CSU

Other Specialty Courses

TIXX 9503. Boiler Theory, Operation, and Maintenance (105 hrs)  
Advis.: High school diploma, GED, or H.S. proficiency certificate and demonstration of 8th grade reading, math, and language ability  
Basic principles of boiler operation, maintenance, and safety procedures for stationary engineers at the pre-apprenticeship level.

TIXX 9504. Instrumentation for Measurement and Control of HV and AC (106 hrs)  
Advis.: ESLN 3700  
Introduction to standard methods for measuring HVAC variables such as temperature, pressure, and flow. Includes continuous and on/off control instruments, feedback loop importance, and reference to blueprints and appropriate standards. Emphasis is on electronic and pneumatic methods commonly used in building service trades. Introduction to Energy Management System (EMS) concepts and methods.

TIXX 9505. Plumbing Applications (105 hrs)  
Introduction to materials, tools and equipment used for installing a plumbing system. Interpretation of isometric drawings for installation of plumbing and piping systems. Understanding plumbing code requirements for installing Drain Waste Vent system, potable drinking water system, gas system and hot water heater. Maintenance and repair of plumbing fixtures, repair or replacement of pipe. Blueprint reading and reference to the Uniform Plumbing Code.

TIXX 9609. Furnituremaking and Woodworking (108 hrs)  
Principles of wood fabrication, emphasizing furniture construction, hand tool and machine basics, shop safety, design, wood joinery and finishing for the beginning woodworker.

TIXX 9700. Health and Hygiene for Stationary Engineers  
Health, hygiene and related safety practices for stationary engineers in six areas: pest control, drinking water, sewage laden equipment, infectious wastes, body substances and food services.

TIXX 9701. Hazardous Materials Training  
The study of regulatory requirements, concepts, practices, tools and pieces of equipment for protecting workers from exposure to toxic substances and hazardous materials in general industry.

TIXX 9709. California and San Francisco Plumbing Code (105 hrs)  
Course will define the code requirements of the California and San Francisco Plumbing Code. History of water supply and distribution. Discuss the powers and duties of the Administrative Authority, inspection, testing and fees. Procedure for submitting plans and obtaining permits. Qualifications of a California license Plumbing Contractor. Discuss the terminology of trade. General regulations for installation of a safe plumbing system. Interpret blueprints and isometric drawings.
Transitional Studies

Announcement of Curricula and Courses

All courses offered by the Transitional Studies Department are without college credit.

(Adult Basic Education, Adult High School Education, General Education Development, Pre-collegiate skills, Vocational Foundation Skills)

Program Goal. Provides students with basic skills for employment, entry into job training programs, or further college study. The certificates offered are the General Education Development (GED) Certificate, and the Adult High School Diploma. Students can also satisfy requirements for the Armed Forces and for state and local licensing boards.

Admission Requirements. All skill levels are accepted. After testing in reading, writing and mathematics, students are enrolled at a level matching their ability and geared toward their educational objectives. Students entering the GED in Spanish program are required to be fluent and literate in Spanish.

Adult Basic Education

Core Courses:
- Basic Skills Development
- Individualized Reading/Writing
- Math Skills Development
- ABE/Pre-GED Skills Development
- GED

Offered at the following campuses:
- John Adams, 561-1900
- Adult Learning and Tutorial Center, 241-2300
- Mission, 550-4417
- Southeast, 550-4300
- Downtown, 267-6500

NONCREDIT COURSES:

ABE 2003. Vocabulary and Spelling (36-180 hrs)
Designed to increase vocabulary and improve spelling skills. Some basic grammar included.

ABE 2035. Individualized Reading and Writing (54-450 hrs)
A basic reading and writing individualized program. Instruction is open entry and open exit and self-paced to meet students’ individual needs. Emphasizes comprehension and study skills and will prepare students for further educational and/or job demands.

ABE 2059. ABE/Pre-GED Preparation (54-540 hrs)
Writing, reading and mathematics skills development from intermediate through pre-GED level. Prepares the student to enter GED 2105. Self-paced, individualized, or small group instruction. Offered in Spanish at Mission Campus.

ABE 2070. Math Skills Development 1 (36-180 hrs)
Addition, subtraction, multiplication, and division of whole numbers and their application to everyday situations. Introduction to number theory, measurement, basic geometry, and elementary algebra.

ABE 2071. Math Skills Development 2 (36-180 hrs)
Study of decimal and common fractions, percents, basic algebra and geometry. Applications with measurement, graphic representations and development of critical thinking through word problems in functional contexts. Competency based.

ABE 2072. Oral/Written Communication 1 (36-180 hrs)
Initiates development of oral and written comprehension. Students will apply these skills to everyday life situations. Students will read pertinent text as a springboard for oral discussion and written assignments. Competency based.

ABE 2073. Oral/Written Communication 2 (36-180 hrs)
Interpersonal communication through listening, speaking, writing, and reading. Using literature, art, newspapers, film and music, students explore American culture(s) and society. Reading and writing competencies stressed.

ABE 2081. Basic Skills Lab (36-540 hrs)
Advise: ESLN 3500 or 3505
Reading, writing, and communication skills to prepare students for high school courses, GED, entry into the workplace, vocational and retraining program. Self-paced, competency based individualized and small group learning with teacher, tutor, and computer assistance.

Adult Basic Education - Vocational

NONCREDIT COURSES:

ABEV 2074. On the Job Communication Skills (54-180 hrs)
Development of listening and responding skills and other interpersonal communication skills needed for success on the job. Includes resume writing and interview practice, and introduction to on-the-job work standards and employer expectations.

ABEV 2078. Choices and Success on the Job (15-45 hrs)
Promotes student self-assessment in career choice, skills assessment, resume writing, interviewing techniques and work ethics.

ABEV 2089. Pre-Vocational Foundation Skills (45-90 hrs)
A competency based course focusing on the basic skills and personal qualities needed to succeed in the entry-level workplace. May be offered bilingually in Spanish and/or in other languages.

ABEV 2090. Literacy Tutor Training (12 hrs)
Instructional techniques in basic reading and writing including demonstration and practice. Includes student assessment, progress evaluation and choosing instructional materials. Designed for volunteers and paraprofessionals who will be tutoring adult students in literacy skills.

ABEV 2091. Graphic Arts Academics (36-180 hrs)
Academic and vocational instruction that offers a study of mathematics, science, and vocabulary as it relates to the field of graphic communications. Prepares students for entry into the Graphic Communications program.

ABEV 2092. Vocational Foundation Skills (36-180 hrs)
Competency-based course designed to support student academic success in vocational programs. Focus is on the foundation skills of reading, writing, math and study skills.
Adult Secondary Education

ASE 2085. Focus on the Future (30-180 hrs)
Course is divided into six flexible modules emphasizing developing
skills for success in academic and vocational pursuits. Students will
explore the world of work as well as the world of higher education.
They will have opportunities to shadow college students or workers
in business and industry. Selected students may apply for intern-
ships. Appropriate for all students returning to school. Module
components may be offered separately.

General Education Development (GED)

GED (High School Equivalency). Preparation for the five GED
test areas of Language Arts Writing, Social Studies, Science,
Language Arts Reading, and Mathematics.

Requirements for Completion. Passing the GED test battery with
an average standard score of 45 and no single test score below 40.

Offered at the following campuses:
Preparation in Spanish is offered only at the Mission Campus.
John Adams, 561-1900
Adult Learning Center, 241-2300
Mission, 550-4417
Southeast, 550-4300
Downtown, 267-6500

NONCREDIT COURSES:

GED 2105. GED Preparation (54-540 hrs)
Advis: ABE 2059
Prepares the student to pass the five GED tests: Language Arts
Writing, Social Studies, Science, Language Arts Reading, and Math-
ematics. Individual and/or small group instruction. Offered in
Spanish at Mission Campus.

Academic Skills Development

NONCREDIT COURSES:

ABE 2069. Math Skills Lab (36-180 hrs)
Individualized instruction in basic mathematics including whole
numbers, fractions, decimals, percents, measurement, and intro-
duction to algebra and geometry. Applications to life and workplace
skills are integrated into this open entry, open exit, and competency
based, self-paced course.

ABE 2083. Success in College (8-25 hrs)
Tools for students to succeed in the educational setting. Emphasis is
on combining use of resources and skills with suggestions for tech-
niques that lead to success in school.

HSEN 2250. Grammar/Composition/Literature (54-90 hrs)
Advis: CASAS Score of 225
Essentials of English grammar, usage, and writing. Survey of basic
forms of English and American literature. Written reports with
emphasis on paragraph development, punctuation, and spelling.

High School Studies

Adult High School Diploma

Plan I

Core Courses:
- English
- Mathematics
- Social Science (U.S. History, World History, Culture, Geog-
  raphy, Civics, Economics)
- Science (Biological, Health, Physical)
- Visual or Performing Arts or Foreign Language
- Additional requirements

Requirements for Completion—Plan I
1. Completion of 180 high school credits. (Some may be transfer-
   red from another school). At least 15 of the high school credits
   must be earned in residence.
2. Passing the Adult High School Diploma Proficiency Tests
   (Reading, Mathematics, Writing)

Plan II

Core Courses:
- Civics
- History
- Additional requirement
- A GED Certificate

Requirements for Completion—Plan II
1. Completion of 25 high school credits (15 of which must be
   earned in residence).
2. Passing the Adult High School Diploma Proficiency Tests
   (Reading, Mathematics, Writing).
3. The GED Certificate.

In the Adult Competency Education (ACE) Learning Center, the
method of awarding high school credit is different from regular
classes. In ACE, awarding of credit is based upon demonstrated
competency, not on attendance. With the assistance of instructors,
students learn at their own pace using individualized learning mate-
rials.

Students may study core courses for Plan I and for Plan II in regular
classes or in the Adult Competency Education (ACE) Learning
Center using individualized materials.

Additional requirement to be chosen from these options: Career
Awareness, College Preparation, Computer Applications, Income
Management, Testing Preparation.

For information on GED testing and assessment, see “GED Testing
and Assessment Center.”
NONCREDIT COURSES:

**Adult Competency Education (ACE)**

**HSLB 2700. ACE High School Lab (54-810 hrs)**
Advice: CASAS score of 225
A competency-based, self-paced lab offering all required high school courses. Subject areas and objectives vary for each student according to previously acquired high school credit and student’s goal. Emphasis is on the development of independent, critical thinking skills applied to each subject.

**Career Development**

**HSCA 2150. Career and Income Management (90 hrs)**
Advice: CASAS Score of 225
Career awareness, job search, and job retention. Employment development and income management. Emphasizes necessary reading, oral and written communication, workability, and interpersonal skills needed to become and stay employable. SCANS competencies are integrated into the curriculum. Satisfies high school requirement in Career Awareness.

**Civics**

**HSCI 2204. Civics (54-90 hrs)**
The Constitution, the rights and responsibilities of citizens, elections, and the party system. Introduces students to a practical understanding of the law.

**Economics**

**HSEC 2225. Economics (54-90 hrs)**
Basic economic principles and their applications to the free enterprise system. Economic concepts applied to students’ personal financial decisions.

**English**

See Academic Skills Development.

**History**

**HSHI 2351. United States History I (90 hrs)**
Advice: ABE 2073
U.S. History up to the Civil War, emphasizing the influence of past events on the present. Analysis of historical cause and effect from political, social, and economic viewpoints.

**HSHI 2352. United States History II (90 hrs)**
Advice: ABE 2073
History of post Civil War America, emphasizing the influence of past events on the present. Analysis of historical cause and effect from political, social, and economic viewpoints.

**Science**

**HSCC 2565. Physical Science (54-180 hrs)**
Study of how people are influenced by the physical world. Includes climate, the ocean, natural events, natural resources, the Earth’s relationship to the sun and moon, and the effects of population on the Earth. Current events analyzed using course concepts.

**Women’s Studies**

**Announcement of Courses**

**CREDIT, DEGREE APPLICABLE COURSES:**

**WOMN 10. Women and Film (3)**
Lec-3
CR/NC avail.
A brief history of the development of feminist film studies. Once outlined, this approach is applied to Hollywood cinema to demonstrate how movies both reflect and shape notions about women and their roles in society. Significant examples of films made by women in resistance to patriarchal images are also screened, accompanied by readings by prominent feminist theorists. CSU/UC

**AFAM 60. The African American Woman in the United States (3)**
Lec-3
The Black woman in America from 1619 to the present. Particular emphasis on contributions she has made to the society. CSU/UC

**ANTH 25. Culture, Gender and Sexuality (3)**
Lec-3
CR/NC avail.
An examination of the cross-cultural and historical factors that determine how women and men understand and act out their gender and sexuality. Focus on women’s role in non-western cultures such as Native American, Moslem, African, and Asian societies. Various aspects of culture which affect both female and male status, such as economics, religion, family and marriage, and sexual practices, will be examined in detail. CSU/UC

**ART 108. Women through Art History (3)**
Lec-3, field trips
Note: The study of art history requires college-level reading comprehension.
A study of women in art, investigating their place in society as artists and patrons, as well as subjects in art. The course will introduce women from both European and non-European cultures from prehistory to the present. All art will be discussed from both a critical and historical perspective, with regard to a social context and formal visual elements. CSU/UC

**ASAM 35. Asian American Women (3)**
Lec-3
Examination of the lives of Asian American women, using a multidisciplinary approach which includes literature, poetry, history, political science, anthropology and sociology. Readings, papers and discussions on the social, cultural, political, and economic conditions facing Asian American women. Field trip may be required. CSU/UC

**BCST 105. Women and Mass Media (3)**
Lec-3, field trips
An exploration of the mass mediated messages—radio, television, film, and print—about women. A critique of roles given women. An update on opportunities for women in each of the mainstream and alternative media industries. CSU
ECON 25. Women in the Economy (3)
Lec-3
An introduction to women's roles in the U.S. economy, including varying experiences related to race, ethnicity, and class. Examines women's occupations and earnings; women's household activities and how they affect paid work; women as consumers; public policy regarding women's work and poverty; and current social topics. Applies and contrasts mainstream political economic theories within a feminist perspective. CSU/UC

ENGL 1A. University-Parallel Reading and Composition (3)
Lec-3
Some sections of ENGL 1A are taught from a feminist perspective. For further information about these sections, see the Chair of Women's Studies. CSU/UC

ENGL 37. African American Women in Literature (3)
Lec-3
CR/NC avail.
An intensive examination of the literary efforts of African American women writers beginning with the Slave Narratives to the present. CSU/UC

ENGL 55. Survey of Gay and Lesbian Literature (3)
Lec-3
CR/NC avail.
Prereq.: ENGL 96 or placement in ENGL 1A
A survey of gay and lesbian literature drawing on examples that present material relevant to present day experience. CSU/UC

ENGL 57. Women and Literature (3)
Lec-3, field trips
CR/NC avail.
Prereq.: ENGL 96 or placement in ENGL 1A
A literature by women: reading, discussion, and analysis of literature written in English by women over the last four hundred years. Emphasis on the nineteenth and early twentieth century novel, including some poetry and drama; classical as well as new and rediscovered authors. CSU/UC

ENGL 58A. Contemporary Women Writers and Poets (3)
Lec-3, field trips
CR/NC avail.
Prereq.: ENGL 96 or placement in ENGL 1A
Contemporary women writers and poets: reading, discussion, and analysis of fiction, poetry, and drama written in English by contemporary women from diverse cultural and ethnic backgrounds. Works in translation may be included. CSU/UC

GLST 21. Issues in Lesbian Relationships (3)
Lec-3
CR/NC avail.
Exploration of the history, culture, and psychological dynamics of lesbian relationships. Emphasis on the central issues of intimacy and commitment as well as the sociological effects of homophobia and minority status within the lesbian dyad. CSU

GLST 30. Issues in the Lesbian Community (3)
Lec-3
CR/NC avail.
Historical analysis and examination of issues central to the development of lesbian identity, culture, and relationships; exploration and debate of current controversial issues in the political, social, and personal realms of lesbian experience. CSU/UC

HLTH 25. Women's Health Issues (3)
Lec-3, field trips
CR/NC avail.
Advisory: Eligible for ESL 82
A health class emphasizing the empowerment of each woman in the pursuit of her physical, mental, social and political health. Aimed at meeting the needs of women of diverse ethnic backgrounds and sexual orientations. Topics include: breast self-exam, menstrual health, reproductive management, motherhood, AIDS and STDS, menopause, violence against women, stress, nutrition, exercises, alternative health, and more. Course work involves research on personal health concerns. CSU/UC

HLTH 26. Women's Health: Advanced Issues (3)
Lec-3, field trips
Advisory: HLTH 25, 27 or 53; and eligible for ENGL 94
In-depth analysis of women's health issues chosen for particular relevance to CCSF students. Focus on public policy and advocacy, emerging trends and careers in women's health, access to diverse healthcare modalities, and current controversies. CSU

HIST 12A-12B. Women in American History (3-3)
Lec-3
CR/NC avail.
An in-depth study of the experiences, roles, and contributions of women in the political, economic, social and cultural developments of the United States. CSU/UC
HIST 12A. From the pre-colonial period to the end of the Civil War.
HIST 12B. From the end of the Civil War to the present.

HUM 25. Women in the Arts (3)
Lec-3
CR/NC avail.
An examination of the creative process by studying the history of women in the arts from pottery, ritual chants, and story telling to painting, sculpture, jazz, novels, and performance art. Recognized "greats" as well as anonymous women of diverse cultural and ethnic backgrounds. Films, tapes, slides and a field trip to complement class lectures and discussions. CSU/UC

IDST 23. African American Women in the Creative Arts (3)
Lec-3
An intensive examination of the creative efforts of African American women artists and writers from 1753 to the present. CSU/UC

IDST 51-52-53. Current Topics in Women's Studies (1-2-3)
Lec-1,2,3
Repeat: if no subject repeat
An interdisciplinary approach to current issues and concerns of women in a variety of areas, such as health, history, and sexuality. CSU/UC

IDST 54. Politics of Sexual Violence (3)
Lec-3, field trips
CR/NC avail.
An examination of political and psycho-social causes of sexual violence, its connection to other hate crimes, and strategies for transforming a violent culture through prevention education, with a special emphasis on the healing function of creative expression. Field project required. CSU
IDST 55. Ending Sexual Violence: Peer Education (3)
Lec-3, field trips CR/NC avail.
Advise: IDST 54
Education and skills training in peer education to promote healthy sexual relationships by reducing sexual violence, specifically battery and rape. Peer education activities, geared towards ending sexual violence, are conducted among CCSF students, with volunteer work in community-based organizations. Field project required. CSU

IDST 70. Architecture and Diversity (3)
Lec-3, field trips CR/NC avail.
An introductory critical review of the building and design heritage of women all over the world and of indigenous people's architecture in Africa and Latin America from tribal dwellings to monumental structures, followed by a series of architectural and engineering studios introducing students to basic building and design skills: developing a project, drawing a floor plan, building an architectural model, using drafting tools and computers. Emphasis on hands-on skills. CSU

LABR 78A-78B-78C. Women's Employment Issues (1-1-1)
Lec-1 CR/NC avail.
These courses may be taken in any sequence
Repeat: max. 3 units if no subject repeat
LABR 78A. A survey of women's work in the past and present. Examines the historical evolution of women's work lives, the impact of family structure, prevailing notions of "women's place," labor market opportunities, and trade union organizations. CSU
LABR 78B. Current issues facing women workers will be discussed. Topics include pay equity, legal rights of women workers, sexual harassment, combining work and family responsibilities and women's employment issues. CSU
LABR 78C. Focus on special problems of selected occupational groups such as clerical workers, health workers and women in non-traditional jobs. CSU

LAMS 10. Latinas in the U.S.: Voces (Voices) (3)
Lec-3, field trips CR/NC avail.
The lives and experiences of Latinas living in the U.S. The effects that their experiences have on self-esteem. Multi-disciplinary discussion and analysis of major social and cultural issues and themes. CSU

P E 550. Self Defense For Women (1)
Lab-2 CR/NC avail.
An integrated approach to rape prevention incorporating psychological, physical and preventive skills. 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

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 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 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 understanding of personal and professional relationships. CSU/UC

SOC 25. Sex and Gender in American Society (3)
Lec-3 CR/NC avail.
How social institutions such as education, family, work, law, etc. affect women and men differently; how gender roles influence self-concept as well as educational opportunities. Examines the contemporary status of all American women, including African American, Latina, and Asian American, in terms of differences and similarities. The strategies, policies, and laws necessary to eliminate sexism from society and to create alternatives for women and men. CSU/UC

NONCREDIT COURSES:

WOMN 9843. Issues of Concern to Women
Contemporary issues of concern to women. Course content varies to include family relations, mental and physical health issues, work-related issues, and self-defense. Focus varies from semester to semester.

Word Processing

For noncredit courses in word processing see the Office Occupations course listings of the Business Department in this section of the Catalog. Also see credit courses in the Business Department listings in this section of the Catalog.