PHOT 130. Portfolio Production (2)
Conf-2
Prereq.: PHOT 93; 81B or 95A; 85B or 90
Repeat: max. 4 units
Student production of a professional portfolio that can be used for job applications. The student is advised by the instructor while producing photographs, professionally mounted, which demonstrate proficiency in photography. Emphasis on developing depth in a particular area of interest and/or proficiency in several areas of professional photography. CSU

PHOT 150. Photographic Laboratory (0)
Coreq.: Enrollment in a laboratory course in photography
An open laboratory in which students may complete their photographic assignments. Required of all students who are enrolled in a laboratory course in photography. CSU

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Physical Education and Dance Announcement of Courses

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

CREDIT, DEGREE APPLICABLE COURSES:

P E 3. Dance Composition (3)
Lab-10
Repeat: max. 9 units
A course in dance techniques and choreography, culminating each semester in a studio demonstration or concert program. CSU/UC

P E 4. Basic Movement (2)
Lec-1, lab-3
Repeat: max. 8 units
Basic locomotor and ball handling skills, rhythms, and body mechanisms. Flexibility, strength, coordination, and general conditioning. CSU/UC

P E 5A-5B-5C. Folk Dance Production (1-2-3)
Lab-2, 4, 6; field trips
CR/NCR only
Advise: P E 518
Repeat: combination total 4 times
Courses may be taken in any sequence
Students will learn staged versions of intermediate and advanced level folk dances for performances in various settings. Attention is given to adaptation of authentic costumes for the stage, as well as other theatre disciplines such as lighting, programming, and event management. CSU/UC

P E 6. Care and Prevention of Athletic Injury (3)
Lec-2, lab-2
A scientific approach to athletic training and conditioning programs. A practical laboratory to ensure skills in taping, injury care, massage, and training-room procedures. CSU/UC

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

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

P E 10. Appreciation and Analysis of Individual and Team Sports (2)
Lec-2
CR/NCR avail.
Emphasis on systems of play, strategy, rules, training programs, organizational procedures, and background for both spectators and participants. CSU/UC

P E 12. Folk, Social, and Square Dancing Activities Analysis (2)
Lec-2
Advise: P E 518 and/or P E 535A
Philosophy, history, teaching methods, and presentation; compilation of dance directions; analysis of individual difficulties and correction. CSU/UC

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

P E 17A-17B-17C. Dance Production (1-2-3)
Lab-2, 5, 7
CR/NCR only
Repeat: combination total 4 times
Courses may be taken in any sequence
Participation in theatre disciplines such as lighting, sound, stage management, set design and costume; development of choreographing and performing skills to be used in a theatre or studio dance production. CSU/UC
Lab-3, 6, 9; field trips
CR/NCR only
Advise: PE 535B
Repeat: combination total 4 times
Courses may be taken in any sequence.
While developing their own technique, students will learn choreographies of current and historical social dance forms for performances in various theatrical or exhibition settings. Students will have the opportunity to observe and participate in various intercollegiate and amateur competitions and learn such theater disciplines as lighting, sound, costuming, programming, and event management. CSU

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

P E 70. Intramural Competition (0)
Enrollment in this course is required for use of the South or North Gym's physical education facilities, except for use in connection with other physical education courses.
Course may be repeated.
Competition in individual and team sports under game conditions; emphasis on coeducational participation. Students may compete individually or as members of teams representing clubs or special interest groups, but always subject to supervision and to the approval of the instructor. CSU

Intercollegiate Athletics for Men (3)
Lab-10
Prereq.: athletic clearance (eligible by rules of the CACC and medical clearance verified by a physician)
Repeat: max. 12 units
Course numbers, activities and semester as indicated below
Instruction for competition and participation in the Golden Gate Conference of the California Association of Community Colleges (CACC). CSU/UC
P E 400. Baseball sp
P E 401. Basketball
P E 402. Cross-country fa
P E 403. Football fa
P E 405. Soccer fa
P E 407. Tennis sp
P E 408. Track sp

Intercollegiate Athletics for Women (3)
Lab-10
Prereq.: athletic clearance (eligible by rules of the CACC and medical clearance verified by a physician)
Repeat: max. 12 units
Course numbers, activities and semesters as indicated below
Instruction for competition and participation in the Golden Gate Conference of the California Association of Community Colleges (CACC). CSU/UC
P E 453. Tennis sp
P E 455. Basketball fa, sp
P E 456. Track and Field sp
P E 457. Softball sp
P E 458. Volleyball fa
P E 459. Cross-country fa

P E 500A-500B-500C. Afro-Haitian Dance (1-1-1)
Lab-2
Repeat: max. 4 units
Beginning, intermediate, and advanced study of African Haitian Dance as a vehicle to understand and appreciate the impact and manifestation of the African Culture in the Caribbean and North America. CSU/UC

P E 501A-501B. Archery (1-1)
Lab-2
Repeat: max. 4 units
Beginning and intermediate archery. Emphasis on skills, official rules, etiquette, safety, methods of shooting and scoring. CSU/UC

P E 503A-503B. Badminton (1-1)
Lab-2
Repeat: max. 4 units
Beginning and intermediate badminton; its history, rules, skills and playing strategies. CSU/UC

P E 504A-504B-504C. Ballet (1-1-1)
Lab-2
Repeat: max. 4 units (ea.)
Beginning, intermediate, and advanced ballet barre and center floor techniques. CSU/UC

P E 505A-505B-505C. Baseball (1-1-1)
Lab-2
Repeat: max. 4 units
Beginning, intermediate and advanced baseball. CSU/UC

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

P E 509. Bodybuilding (1)
Lab-2
Repeat: max. 4 units
Physical development and muscle toning through weight training. CSU/UC
P E 512. Corrective Physical Education (1)
Lab-2
Repeat: max. 4 units
An individualized program of specific rehabilitation needs for students with physical handicaps. Enrollment is limited to students with a physician prescription. CSU/UC

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

P E 518A-518B International Folk Dance (1-1)
Lab-2
Repeat: max. 4 units
Introduction to basic folk dances, customs, music, folk art, culture and spirit of people from many lands. Beginning covers approximately 25 dances from around the world; intermediate dances are more challenging. CSU/UC

P E 519A-519B-519C. Football (1-1-1)
Lab-2
Repeat: max. 4 units
Instruction in the fundamentals of touch football; emphasis on skill, ability, body conditioning and endurance. CSU/UC

P E 520A-520B-520C. Golf (1-1-1)
Lab-2
Repeat: max. 4 units
Beginning, intermediate, and advanced golf, its history, etiquette, terminology and rules. CSU/UC

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

P E 524A-524B-524C. Judo (1-1-1)
Lab-2
Repeat: max. 4 units
Beginning, intermediate, and advanced judo. Training in the methods of self-defense and the avoidance of conflict. Examination of critical psychological, socio-cultural and physiological factors which affect judo and self-defense situations. CSU/UC

P E 525. Life Guarding (1)
Lab-2
Prereq.: Advanced swimming
Repeat: max. 4 units
Training in life guarding (non-beach) situations; recognizing and preventing life threatening situations. American Red Cross Life Guarding Certificate granted upon successful completion. CSU/UC

P E 526A-526B. Modern Dance (1-1)
Lab-2
Repeat: max. 4 units
Beginning and intermediate dance techniques; emphasis on body movement through modern dance. CSU/UC

P E 527A-527B-527C. Physical Fitness (1-1-1)
Lab-2
Repeat: max. 4 units
Beginning, intermediate and advanced physical fitness techniques with an emphasis on agility, flexibility, strength, endurance and aerobics. CSU/UC

P E 528. Running and Conditioning (1)
Lab-2
Repeat: max. 4 units
Principles and practices of body conditioning with emphasis on cardiovascular fitness (aerobic) and flexibility (stretching). CSU/UC

P E 529. Sabre (1)
Lab-2
Repeat: max. 4 units
Introduction to the basic skills of the sabre with emphasis in the fencing techniques of cutting and thrusting. CSU/UC

P E 530A-530B-530C. Self Defense (1-1-1)
Lab-2
Repeat: max. 4 units
Beginning, intermediate, and advanced methods of self-defense and the avoidance of conflict. CSU/UC

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

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

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

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

P E 541A-541B. Tap Dance (1-1)
Lab-2
Repeat: max. 4 units
Beginning and intermediate tap techniques, patterns, history and terminology. CSU/UC

P E 542A-542B-542C. Tennis (1-1-1)
Lab-2
Repeat: max. 4 units
Beginning, intermediate, and advanced tennis; emphasis on rules, etiquette, basic skills, strokes and footwork, scoring, and strategy. CSU/UC
P E 543. Track and Field (1)
Lab-2
Repeat: max. 4 units
Instruction and participation in inter-collegiate track and field events. CSU/UC

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

P E 549. Karate (1)
Lab-2
Repeat: max. 4 units
Instruction and training in the modern sport Karate involving recreational and/or competitive applications. Emphasis on the development of self-control, positive human interaction, and the re-direction and avoidance of aggression. CSU/UC

P E 550. Self Defense For Women (1)
Lab-2
Repeat: max. 4 units
An integrated approach to rape prevention incorporating psychological, physical, and preventative skills. CSU/UC

P E 552. Racquetball (1)
Lab-2
Repeat: max. 4 units
Instruction and development of basic racquetball skills in singles and doubles. Emphasis on history, rules, etiquette, and strategy. CSU/UC

P E 553A-553B-553C. Tai Chi (1-1-1)
Lab-2
Repeat: max. 4 units
Introduction to Tai Chi Chuan, a stylized form of movement that promotes both mental and physical well-being. Emphasis on the first portion of the Yang style. CSU/UC

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

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

P E 554C. Seniors Yoga (1)
Lab-2
Repeat: max. 4 units
Introduction, especially for senior citizens, to the principles and practices of yoga as a physical discipline of asanas and breathing exercises which achieves integration of the body and mind. A presentation of yoga histories, culture, and current trends. Emphasis on the role of the senior citizen in Indian and yoga cultures. CSU/UC

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

P E 557. Walking for Fitness (1)
Lab-2
Repeat: max. 4 units
Technique of brisk walking designed to improve cardiovascular endurance. Emphasis on learning the importance of heart rate to aerobic exercise. CSU/UC

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

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

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

P E 562. Body Sculpting (1)
Lab-2
Repeat: max. 4 units
Introduction to the principles and practices of body sculpting through weight training with hand held weights, dynobands, and individual body weight. CSU/UC

P E 564. Dance Conditioning (1)
Lab-2
Repeat: max. 4 units
A survey course which introduces body awareness, body alignment, and dance conditioning techniques which enhance and expedite dance skills and prevent injury. CSU
P E 565. Step Aerobics (1)
Lab-2
Repeat: max. 4 units
Introduction to the principles and practices of step aerobics through aerobic training: stepping up and down on adjustable platforms, performing in a routine at about 120 steps per minute. CSU

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

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

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

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

BCST 117. Sports Announcing and Production (3)
Lec-3, lab-3
Repeat: max. 6 units
Prereq.: BCST 115 and 131 or 140 or equivalent skills
All aspects of sports announcing and production for radio, television, cable, satellite, and the internet. An exploration of sports coverage history, issues, technology, production, play-by-play announcing, color announcing, and career opportunities. Students will announce and produce live and live-on-tape broadcasts of City College sports events. CSU

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Physical Science
Announcement of Courses

CREDIT, DEGREE APPLICABLE COURSE:

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

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Physics
Announcement of Courses

CREDIT, DEGREE APPLICABLE COURSES:

PHYC 2A-2B. Introductory Physics (3-3)
Lec-3, conf-1
Required of premedical, biology, and some architecture students
Prereq.: PHYC 2A: High-school physics or PHYC 40, and HS trigonometry or MATH 95
PHYC 2B: PHYC 2A
Coreq.: PHYC 2A: PHYC 2AL
PHYC 2B: PHYC 2BL
Lectures illustrating principles of physics. CSU/UC/CAN: PHYC 2A+2AL+2B+2BL: PHYS SEQ A

PHYC 2A. Mechanics, fluids, heat, and sound. CAN: PHYS 2 (2AL needed)
PHYC 2B. Electricity, magnetism, light, and selected topics in modern physics. CAN: PHYS 4 (2BL needed)

PHYC 2AC-2BC. Introductory Physics-Calculus Supplement (0.5-0.5)
Lec-1, conf-0.5 (9 wks)
Required of some premedical, biology, and architecture students. CSU/UC
Prereq.: PHYC 2AC: MATH 110A or 100A; PHYC 2A (concur.)
PHYC 2BC: MATH 110B or 100B; PHYC 2B (concur.)
PHYC 2AC. The application of calculus to topics in mechanics, fluids, heat and sound.
PHYC 2BC. The application of calculus to topics in electricity, magnetism, light, and modern physics. (spring semester only)
PHYC 2AL-2BL. Introductory Physics Laboratory (1-1)
Lab-3
Required of premedical, biology, and some architecture students
Prereq.: PHYC 2AL: PHYC 2A (concur.)
PHYC 2BL: PHYC 2B (concur.)
Laboratory experiments. CSU/UC/CAN: PHYC
2A+2AL+2B+2BL: PHYS SEQ A
   PHYC 2AL. Mechanics, fluids, heat, and sound. CAN: PHYS 2 (PHYC 2A needed)
   PHYC 2BL. Electricity, magnetism, and light. CAN: PHYS 4 (PHYC 2B needed)

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, or into other engineering or physical science Transfer programs.
Prereq.: PHYC 4A: High school physics or PHYC 41, and MATH 110B (concur);
PHYC 4B: PHYC 4A, and MATH 110B;
PHYC 4C: PHYC 4B; PHYC 4D: PHYC 4C and MATH 110C (both concur.)
Coreq.: PHYC 4A: PHYC 4AL; PHYC 4B: PHYC 4BL;
PHYC 4C: PHYC 4CL; PHYC 4D: PHYC 4DL.
Advise: PHYC 4D/4DL and PHYC 4C/4CL concur.
Mathematical development of physics. CSU/UC/CAN: PHYC
4A+4AL+4B+4BL+4C+4CL: PHYS SEQ B
   PHYC 4A. Mechanics. CAN: PHYS 8 (4AL needed)
   PHYC 4B. Electricity, magnetism, and AC circuit theory.
   CAN: PHYS 12 (4BL needed)
   PHYC 4C. Waves, geometrical and physical optics, and thermodynamics. CAN: PHYS 14 (4CL needed)
   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, or into other engineering or physical science Transfer programs.
Prereq.: PHYC 4AL: PHYC 4A (concur.)
Coreq.: PHYC 4BL: PHYC 4B; PHYC 4CL: PHYC 4C; PHYC 4DL: PHYC 4D
Laboratory experiments. CSU/UC/CAN: PHYC
4A+4AL+4B+4BL+4C+4CL: PHYS SEQ B
   PHYC 4AL. Mechanics, measurements, fluids. CAN: PHYS 8 (PHYC 4A needed)
   PHYC 4BL. Electricity and magnetism; emphasis on oscilloscope measurement techniques. CAN: PHYS 12 (PHYC 4B needed)
   PHYC 4CL. Experiments in sound, Fourier analysis, electrical oscillations and waves, geometrical and physical optics. CAN: PHYS 14 (PHYC 4C needed)
   PHYC 4DL. Laboratory experiments in modern physics.

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

PHYC 10L. Conceptual Physics Laboratory (1)
Lab-3
Required for students enrolled in the curriculum in RADL.
Prereq.: PHYC 10 (concur.)
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 MATH 95 (concur)
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.: MATH 110A (concur.)
Elementary physics, emphasizing concepts and problem solving in kinematics, forces, energy, momentum, electricity, magnetism, vibrations and wave phenomena. CSU/UC

Pilipino
Announcement of Courses

CREDIT, DEGREE APPLICABLE COURSES:

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

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

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

CREDIT, DEGREE APPLICABLE COURSES:

POLS 1. American Government (3)
Lec-3
An introduction to the institutions, operations, policies, and problems of American government today. Examination of such issues as U.S. Constitutional development; the impact of the President, the Congress, the bureaucracy, and the courts on daily life; civil rights and liberties; the press and the mass media; political parties, lobbies, and citizen action groups; voting and elections; the domestic and foreign policies of the federal government; the problems of state and local government; public administration of and the theories, values, and behavior underlying the American political system. CSU/UC/CAN: GOVT 2

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. Students will be exposed to 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
Advis: POLS 1 or 46
American political institutions and the relationship to African Americans. The unique manner in which Black people have had to function both within and outside the political system. The future of African American politics. CSU/UC

POLS 8. Political Problems of Latin Americans (3)
Lec-3
Advis: POLS 1 or 46
The relationship between Latin American citizens and American political institutions. Emphasis on the political problems of Latin Americans, proposed solutions to these problems, and practical political techniques for achieving such solutions. CSU/UC

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

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

POLS 12. Ethnic Politics in the United States (3)
Lec-3
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 and racial factors in the political process is systematically examined and analyzed in the context of at least three of the following groups: African Americans, Asian Americans, Chicano/Latino, Native Americans, and European Americans. Salient policy issues affecting all groups, such as civil rights, crime, immigration, and employment, are also examined. CSU/UC

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

POLS 20. The Politics and Policies of Cities (3)
Lec-3
CR/NCR avail.
An analysis of the problems, politics, and policies of American city governments, with special emphasis on the San Francisco Bay Area. CSU
POLS 25. Political Action (3)
Lec-3, field trips
CR/NCR avail.
A practical guide to citizen political participation. Emphasis on institutional possibilities of change as well as the development of political strategies. Practical political experience encouraged. CSU

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

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

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

POLS 43. The Constitution and Individual Rights (3)
Lec-3, field trips
CR/NCR 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/NCR avail.
A survey of political developments and changes in the Middle East, with emphasis on the Arab states and Israel. CSU/UC

POLS 54. American Political Systems (3)
Lec-3, field trips
CR/NCR 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/NCR 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/NCR 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/NCR 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

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**Psychology**

**Announcement of Courses**

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**CREDIT, DEGREE APPLICABLE COURSES:**

**PSYC 1. General Psychology (3)**
Lec-3
CR/NCR avail.
Advis: 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: PSY 2

**PSYC 1B. Introduction to Biopsychology. (3)**
Lec-3
CR/NCR 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/NCR avail.
Prereq.: PSYC 1
Primarily for psychology majors, related majors, and students interested in 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/NCR avail.
Prereq.: MATH 92, 860, or demonstration of math 860 exit skills. (2nd Year HS Algebra)
Not open to students who have completed a course in statistics
Primarily for prospective majors and related majors. Introduction to research design, measurement, descriptive statistics (including correlation and regression), probability, sampling theory, confidence intervals, and hypothesis testing. CSU/UC

PSYC 7. The Psychology of Biofeedback (3)
Lec-3 CR/NCR 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/NCR avail.
Review of research on the causes and consequences of stress along physical, behavioral, emotional and mental dimensions. Emphasis will be placed on the practical implications for better managing stress in our own lives. CSU

PSYC 10. Abnormal Psychology (3)
Lec-3 CR/NCR avail.
Prereq.: 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 12. Sport Psychology (3)
Lec-3 CR/NCR 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/NCR 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/NCR 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/NCR 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 22. The Psychology of Minority Groups (3)
Lec-3 CR/NCR avail.
Not open to students who are enrolled in or who have completed PSYC 23
An examination of the psychological aspects of minority group relations. A psychohistorical analysis of the treatment of African Americans, Asian Americans, Mexican Americans/ Latino Americans, and Native Americans in the USA. Emphasis on the strengths and unique contributions of minorities to the USA. CSU

PSYC 23. The Psychology of Minority Groups (3)
Lec-3 CR/NCR avail.
Prereq.: PSYC 1
Not open to students who are enrolled in or who have completed PSYC 22
An examination of the psychological aspects of minority group relations. A psychohistorical analysis of the treatment of African Americans, Asian Americans, Mexican Americans/ Latino Americans and Native Americans in the USA. Emphasis on the strengths and unique contributions of minorities to the USA. CSU/UC

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

PSYC 26. Psychological Processes and Human Relations (3)
Lec-3 CR/NCR avail.
An introduction to the understanding of human behavior, to enhance the 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/NCR avail.
Prereq.: PSYC 1 (concur.) or 20
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/NCR 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
Prereq.: PSYC 1 or 26
CR/NCR only
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 offered in cooperation with the Radiology 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 or 40;
   d. One year high school physics, or PHYS 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, Room 134, Science Hall.)

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 Radiation Oncology Technology Program, which is available from the department office.
Associate in Science Degree and Award of Achievement. The course of study is designed so that students may satisfy the requirements for graduation from the College. Students who satisfy these requirements, complete the required courses in the curriculum with final grades of C or higher, and complete the internship, receive the Award of Achievement in Radiation Oncology Technology.

State and National Certification. Graduates of the Option in Radiation Oncology Technology are eligible to take the certification examination administered by the California Department of Health. State certification is required for employment in California. Graduates are eligible for and are encouraged to take the certification examination given by the American Registry of Radiologic Technologists, a national certification board recognized by the Joint Review Committee for Education in Radiologic Technology. Many employers require national certification.

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

First Semester
Course | Units
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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
HILTH 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 Cross Section Anat | 1
PHYS 1 or 12 Hum Phys or Intro to Hum Phys | 4
DMI 50B Radiologic Physics and Equipment | 2
RADL 70 Radiat Protect | 2
RADL 80 Intro to Radiat Onc & Clinic Observ (spring only) | 3
Additional graduation requirements

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

Third Semester
DMI 56 Pathology (fall only) | 2
RADL 72 Physics of Radl Ther (fall only) | 2
RADL 74 Oncology (fall only) | 3
RADL 83 Clin Wk Exper in Ther Radl (fall only) | 4
Additional graduation requirements

Fourth Semester
RADL 73 Radiation Bio (spring only) | 2
RADL 75 Adv Radian Therapy Tech (spring only) | 2
RADL 84 Clinic Wk Exper in The Radl (spring only) | 4
Additional graduation requirements

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

Recommended electives: Courses in Computer Science; PSYC 1, 26; SOC 28; ET 109B; 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, lab-var
Coreq.: DMI 50A
Students with prior clinical experience admitted to the Radiologic Technology Program or the Diagnostic Medical Imaging Program may challenge this course.
Introduction to the organization of medical care, the ethical and interpersonal responsibilities of health-team members, the meaning of illness and therapies, and the theory and practice in assessing patient situations and meeting basic patient needs. CSU

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

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

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

RADI 74. Oncology (3) fa
Lec-3, field trips
Prereq.: RADI 80
Coreq.: RADI 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

RADI 75. Advanced Radiation Therapy Techniques (2) sp
Lec-2, lab-2
Prereq.: RADI 72
Coreq.: RADI 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

RADI 80. Introduction to Radiation Oncology and Clinical Observations (3) sp
Lec-3, lab-3
Prereq.: ANAT 25; RADI 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

RADI 81. Conference to Accompany Clinical Experience in Radiation Therapy (2) su
Conf-5 (6 wks)
Prereq.: DMI 50B, 70
Coreq.: RADI 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

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

RADI 83. Clinical Experience in Radiation Therapy (4) fa
Lec-2, lab-20
Prereq.: RADI 82
Coreq.: RADI 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

RADI 84. Clinical Experience in Radiation Therapy (4) sp
Lec-2, lab-20
Prereq.: RADI 83
Coreq.: RADI 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

RADI 85. Conference to Accompany Clinical Experience in Radiation Therapy (1) su
Conf-2 (8 wks)
Prereq.: RADI 84
Coreq.: RADI 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

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

RADI 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

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**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/NCR avail.
Advis: Completion of 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/CAN: RUSS 2; RUSS 1+2: RUSS SEQ A.

RUSS 1A-1B. Elementary Russian (3-3)
Lec-3, lab-2 CR/NCR avail.
Advis: RUSS 1A: ENGL 94 or higher or ESL 82 or higher or any City College or University foreign language course.
Prereq.: RUSS 1B: RUSS 1A.
Not open to students who are enrolled in or who have completed RUSS 21A-21B.

RUSS 2. Continuation of Elementary Russian (5)
Lec-5, lab-2 CR/NCR avail.
Prereq.: RUSS 1 or 1B.
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/CAN: RUSS 4; RUSS 1+2: RUSS SEQ A.

RUSS 2A-2B. Continuation of Elementary Russian (3-3)
Lec-3, lab-2 CR/NCR avail.
Prereq.: RUSS 2A: RUSS 1 or 1B.
RUSS 2B: RUSS 2A.
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 CR/NCR avail.
Prereq.: RUSS 2 or 2B or 22 or 22B.
Third semester course: Continuation and review of grammar; composition and reading; continued practice in conversation. CSU/UC.

RUSS 3A-3B. Intermediate Russian (3-3)
Lec-3, lab-2 CR/NCR avail.
Prereq.: RUSS 3A: RUSS 2, 2B, 22, or 22B.
RUSS 3B: RUSS 3A.
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.

RUSS 10A. Beginning Practical Spoken Russian (3)
Lec-3, lab-2 CR/NCR avail.
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 CR/NCR avail.
Prereq.: RUSS 10A.
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 CR/NCR avail.
Prereq.: RUSS 10B.
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 those 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 CR/NCR avail.
Prereq.: RUSS 10C.
Open to native speakers only with the consent of the instructor.
Fourth semester course: Continuation of extensive oral training in Russian. Designed for those 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 CR/NCR avail.
Prereq.: RUSS 10C or 10D.
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 st-5,10,15.
Prereq.: RUSS 2 or 10C or 10D.
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 CR/NCR avail.
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
Prereq.: RUSS 21A: Oral fluency in Russian
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 course 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/NCR 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.
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/NCR avail.
Prereq.: RUSS 22A: Oral fluency in Russian or RUSS 21 or 21B
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 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 = RUSS 22

RUSS 39A-39B. Russian Literature in Translation (3-3)
Lec-3
CR/NCR avail.
Advising: 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 19th century.
RUSS 39B. Russian literature and selected authors of the twentieth century.

RUSS 41. Russian Culture and Civilization (3)
Lec-3
CR/NCR avail.
Advising: 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 Courses

CREDIT, DEGREE APPLICABLE COURSES:

SOC 1. Introduction to Sociology (3)
Lec-3
CR/NCR 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/UC/CA: SOC 2

SOC IAC. Introduction to Sociology: Focus on American Cultures (3)
Lec-3
CR/NCR 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/NCR 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 sociocultural processes and effects, changing society and the politics of deviance. CSU/UC/UC/CA: SOC 4

SOC 25. Sex and Gender in American Society (3)
Lec-3
CR/NCR 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/NCR 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/NCR 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/NCR 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/NCR avail.
Repeat: if no subject repeat
Exploration of topics of current interest and innovations in sociology. CSU/UC

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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/NCR avail.
Advis: Completion of 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 2; SPAN 1+2: SPAN SEQ A

SPAN 1A-1B Elementary Spanish (3-3)
Lec-3, lab-2
CR/NCR avail.
Prereq.: SPAN 1B: SPAN 1A
Advis: Completion of 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 2; SPAN 1A+1B+2A+2B: SPAN SEQ A
SPAN 1A-1B = SPAN 1

SPAN 2. Continuation of Elementary Spanish (5)
Lec-5, lab-2
CR/NCR avail.
Prereq.: SPAN 1 or 1B
Second semester course: Completion of elementary grammar. Composition and reading. Continued practice in conversation.
CSU/UC/CAN: SPAN 4; SPAN 1+2: SPAN SEQ A

SPAN 2A-2B. Continuation of Elementary Spanish (3-3)
Lec-3, lab-2
CR/NCR avail.
Prereq.: SPAN 2A: SPAN 1 or 1B; SPAN 2B: SPAN 2A
Completion of elementary grammar. Composition and reading. Continued practice in conversation. CSU/UC/CAN: SPAN 4;
SPAN 1A+1B+2A+2B: SPAN SEQ A
SPAN 2A-2B = SPAN 2

SPAN 3. Intermediate Spanish (5)
Lec-5, lab-2
CR/NCR avail.
Prereq.: SPAN 2 or 2B
Intensive review of grammar. Culture and composition. Designed for students who need reinforcement and expansion of the structures of the Spanish language. CSU/UC/CAN: SPAN 8; SPAN 3+4: SPAN SEQ B

SPAN 3A-3B. Intermediate Spanish (3-3)
Lec-3, lab-2
CR/NCR avail.
Prereq.: SPAN 2 or 2B
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/NCR avail.
Prereq.: SPAN 2 or 2B
SPAN 3 not prerequisite to SPAN 4
Readings of literary and cultural selections; composition; review of selected grammar. CSU/UC/CAN: SPAN 10; SPAN 3A+3B+4: SPAN SEQ B

SPAN 5-5S. Advanced Spanish: Conversation on Hispanic Culture and Civilization (3-3)
Lec-3, lab-1
CR/NCR avail.
Prereq.: SPAN 2 or 2B
SPAN 5 not prerequisite for 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. CSU/UC
SPAN 5, Paleolithic Period to the Golden Age
SPAN 5S, Golden Age to Present

SPAN 10A. Beginning Conversational Spanish (3)
Lec-3, lab-2
CR/NCR avail.
Advis: SPAN 1, 1A, or 1B (concur.)
Not open to native speakers of Spanish
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/NCR avail.
Prereq.: SPAN 10A
Advis: 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
Prereq.: SPAN 10B
Advis: 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

CR/NCR avail.

SPAN 10D. Continuation of Intermediate Conversational Spanish (3)
Lec-3, lab-2
Prereq.: SPAN 10C
Advis: SPAN 3, 3A, 3B, 4, or 5 (concur.)
Not open to native speakers of Spanish
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

CR/NCR avail.

SPAN 31-32. Intermediate Spanish for Bilingual Students (5-5)
Lec-5
Advisugue: Oral fluency in Spanish
SPAN 32: Completion of SPAN 31 or 31A-31B
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 or 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

CR/NCR avail.

SPAN 31A-31B. Intermediate Spanish for Bilingual Students (3-3)
Lec-3
Advis: 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 or 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

CR/NCR avail.

SPAN 39A-39B. Contemporary Spanish American Literature in Translation (3-3)
Lec-3
Advis: 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.

CR/NCR avail.

SPAN 39C-39D. Spanish Literature in Translation (3-3)
Lec-3
Advis: 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.

CR/NCR avail.

SPAN 41. Culture and Civilization of Spain (3)
Lec-3
Advis: 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

CR/NCR avail.

Speech Communication
Announcement of Curricula

Certificate in Speech Communication
Course
Units
SPCH 12 Fund of Oral Comm.......................... 3
SPCH 4 Group Comm
or SPCH 20 Interper Comm .......................... 3
SPCH 1A Elem of Public Spkng
or SPCH 11 Basic Public Spkng .................... 3
SPCH 3 Argument and Debate
or SPCH 37 Intracollegiate Spch Comp 3
or SPCH 38 Intercollegiate Spch Comp ........... 3

Announcement of Courses

CREDIT, DEGREE APPLICABLE COURSES:

SPCH 1A. Elements of Public Speaking (3)
Lec-3
Advis: Completion of ENGL 96 or eligible for ENGL 1A
Training in research, organization, and delivery of speeches. Focus on audience analysis, detailed speech outlining, evidence testing, delivery, and visual aids. CSU/UC/CAN: SPCH 4

CR/NCR avail.

SPCH 3. Argumentation and Debate (3)
Lec-3
Advis: Completion of ENGL 96 or eligible for ENGL 1A
Primary emphasis on argumentation as the study of analysis, evidence, reasoning, refutation, 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

CR/NCR avail.
SPCH 4. Group Communication (3)
Lec-3 CR/NCR avail.
Advis: Completion of ENGL 96 or eligible for 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

SPCH 11. Basic Public Speaking (3)
Lec-3 CR/NCR avail.
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/NCR avail.
An introduction to the 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 CR/NCR avail.
Focus on the impact communication has on the interaction between individuals in settings including family, friendship, intimate and work situations. Practical skills based on communication theories to increase the student's awareness of how patterns of interaction are affected by self-concept, listening, language, perception, gender, and culture. Students are expected to demonstrate and apply these skills through individual and group activities. CSU

SPCH 37. Intracollegiate Speech Competition (3)
Lec-3, lab-3 CR/NCR avail.
Repeat: max. 6 units
Student participation in an intracollegiate forensics tournament in one or more of the following areas: persuasive, informative or impromptu speaking and oral interpretation. Development of public speaking skills while participating on a team. CSU

SPCH 38. Intercollegiate Speech Competition (3)
Lec-3, lab-3 CR/NCR avail.
Advis: SPCH 37
Repeat: max. 6 units
Student competition in intercollegiate forensics tournaments in one or more of the following areas: parliamentary debate; oral interpretation; informative, persuasive, speech to entertain; communication analysis, impromptu, and extemporaneous speaking; interpretive theater. Development of public speaking skills while participating on a team. CSU

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Student Leadership
Announcement of Courses

CREDIT, DEGREE APPLICABLE COURSES:

S I. 10. Student Government (1)
Work-2 CR/NCR only
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 I. 12. Leadership Skills (3)
Lec-3 CR/NCR 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

S I. 12A. Leadership Skills: Independent Study (3)
Ind st-54 hrs CR/NCR avail.
Repeat: max. 12 units
An independent leadership project. CSU

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Theatre Arts
Announcement of Courses

CREDIT, DEGREE APPLICABLE COURSES:

TH A 2A-2B. Theatre Production (3-3)
Lec-2, lab-4 CR/NCR avail.
Prereq.: TH A 2B
Instruction and practical experience in stagecraft, stage properties, lighting, and sound through participation in theatre productions. CSU/UC

TH A 2C. Advanced Theatre Production (3)
Lec-2, lab-4 CR/NCR avail.
Prereq.: TH A 2B
Instruction and practical experience in stagecraft, stage properties, lighting, and stage management through participation in theatre productions. CSU/UC

TH A 3A. Introduction to Costume and Make-up (3)
Lec-2, lab-4 CR/NCR avail.
Introduction to the function of theatrical costume and make-up and their contribution to the total aesthetic effect of a dramatic or cinematic production. Emphasis on practical skills necessary to achieve a desired effect as well as an understanding of styles, methods and materials. CSU/UC
TH A 3B. Intermediate Costume and Make-up (3)
Lec-2, lab-4
CR/NCR avail.
Advises: TH A 3A or demonstration of exit skills.
The development of costuming and make-up skills through research and practical experience in conjunction with stage productions, with emphasis on the introduction to management skills. CSU/UC

TH A 3C. Advanced Costume and Make-up (3)
Lec-2, lab-4
CR/NCR avail.
Advises: TH A 3B or demonstration of exit skills.
Instruction and practical experience in costuming and make-up at advanced levels through participation in stage productions as a costume and designer/design assistant. CSU/UC

TH A 6. Introduction to Stage Design (3)
Lec-2, lab-4
Basic graphic techniques used in scene design with emphasis on drafting conventions, freehand sketching, stage groundplans, perspective drawing, and other graphic skills essential to the solution of scenic problems. CSU/UC

TH A 8. Introduction to African American Theatre (3)
Lec-3, field trips
Designed to acquaint students with African American theatre. Lectures; readings from the works of African American dramatists; demonstrations; and attendance, when appropriate, at live theatre productions in the Bay Area. CSU/UC

TH A 17. Multi-Cultural Theatre: African American, Asian American, and Hispanic (3)
Lec-3, field trips
An introductory study of African American, Asian American, and Latin American theatre in the United States. Lectures, demonstrations, guest speakers, and attendance at performances. CSU/UC

TH A 18. Gay and Lesbian Drama in the Twentieth Century (3)
Lec-3
CR/NCR avail.
A survey of twentieth century gay and lesbian plays. Course content includes works that express homosexual themes and subject matter, particularly relevant to the homosexual experience, works by homosexual playwrights, and works that contain at least one major character who is homosexual. CSU/UC

TH A 19. Latin American Theatre (3)
Lec-3
An introduction to the study of Latin American theatre through its playwrights. Lectures, demonstrations, laboratorios and viewing of video tapes or attendance of live performances when available. CSU/UC

TH A 22. Acting Shakespeare: Text Analysis and Performance (3)
Lec-3, field trips
Advises: 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 (3)
Lec-3, lab-4
CR/NCR only
Prereq.: be cast in a production through audition
Repeat: Vis. & Perf. arts repeat, but max. 4 repeats
Rehearsals are normally scheduled for a period of five to six weeks before production. Depending on one's role, a minimum of six to twenty hours of attendance weekly may be expected. Evening hours are also required during the week preceding production, and for performances. There are usually five public performances over a period of two weeks. CSU/UC

TH A 56. Theatre for Children (2) su
Lab-6
Instruction and practice in performing theatre for children; principles of acting adapted for children; dramatization of children's stories. CSU

TH A 68. Summer Theatre Workshop (6) su
Lab-4 daily
Repeat: max. 18 units
An intensive program of practical stage and backstage experience centered around the production of a play. Enrollment is limited by the facilities available. CSU/UC

TH A 100. 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

Formerly TH A 1

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, scenes and monologues, stage movement, and introduction to acting terminology. CSU/UC

Formerly TH A 10

TH A 102. Character Development and Scene Study (3)
Lec-3
Advises: TH A 101A or demonstration of exit skills.
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
Advises: 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)
Prereq.: Eligible for ENGL 96
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)
Prereq.: Eligible for ENGL 96
Lec-3
An introductory survey to the world's great modern plays. Begins with Henrick 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
Advise: TH A 101, 102, or 103 or demonstration of exit skills.
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
Advise: TH A 101, 102 or demonstration of exit skills.
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. Created Dramatics and Improvisation for Actors (3)
Lec-3, field trips
Advise: TH A 101 and 102 or demonstration of exit skills.
Repeat: max. 9 units
Creation of original material by student performers for presentation through the techniques of improvisation and scenario. CSU

TH A 123. Vocal Production and Audition for Actors (3)
Lec-3
Repeat: max. 12 units
Introduction to the anatomy and physiology of the vocal mechanism. Development of voice and articulation for the stage to develop the actor's process in preparation for audition, selection of materials, and presentation of self in various audition settings. CSU

Formerly TH A 23

TH A 124. Clowning, Masks and Physical Comedy (3)
Lec-3, field trips
Prereq.: TH A 101
Repeat: max. 9 units
Focus on clowning: the creation and use of masks, special attention to physical characteristics of comic acting and an introduction to circus skills. CSU

TH A 129. Storytelling (3)
Lec-3, field trips
Advise: TH A 101
Repeat: max. 9 units
Development of the acting skill of storytelling through performance exercises, improvisations, and uses of the literature of folklore and myth, focusing on the telling of stories. CSU

TH A 145. Multimedia in Performance (3)
Lec-6, field trips
Prereq.: IDST 120
The history of live performance (including movement, dance, acting, properties, special effects, and scenic elements) combined with the computer in its many facets (electronic music, digital sound, computerized lighting, rear screen projections, and video and slide enhancements in three dimensional space. CSU

Related Course
MUS 44. Music Theatre Workshop (3)
Lec-6, field trips
Repeat: max. 9 units
An opportunity for students interested in musical theatre to study, rehearse, and participate in performances of musical works for the stage. Equal emphasis given to the musical and dramatic elements involved in such productions. For staged, public performances, roles may be assigned subject to audition. CSU

The following courses in other departments will be helpful to those interested in theatre: BCST 115, 140; IDST 38; SPCH 38; and physical-education courses in fencing and in modern, folk dancing, and ballet.

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.

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.

**Core Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIAP 9501 AC Electricity I</td>
<td>105</td>
</tr>
<tr>
<td>TIAP 9502 AC Electricity 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><strong>Total</strong></td>
<td><strong>525</strong></td>
</tr>
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</table>

**Electives (select 3)**

<table>
<thead>
<tr>
<th>Course</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 National Electric Code</td>
<td>105</td>
</tr>
<tr>
<td>TIXX 9504 Instruments for HV &amp; AC</td>
<td>105</td>
</tr>
<tr>
<td>TIXX 9505 Plumbing Code (NPC)</td>
<td>105</td>
</tr>
<tr>
<td>TIXX 9701 Haz Mats Training</td>
<td>105</td>
</tr>
<tr>
<td>LAIR 9809 Labor Rel in Select Indus</td>
<td>105</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>735</strong></td>
</tr>
</tbody>
</table>

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

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**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 550-4308.

**Length of Program**: Two semesters

<table>
<thead>
<tr>
<th>Core Course</th>
<th>Hours/Weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIBM 9543 Computerized Mach Tech</td>
<td>25/35</td>
</tr>
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</table>

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

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**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 Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIDR 9564 Drafting</td>
<td>175</td>
</tr>
<tr>
<td>TIXX 9699 Cabinet Making</td>
<td>105</td>
</tr>
<tr>
<td>TIXX 9704 Intro to Constr Trades, A</td>
<td>72</td>
</tr>
<tr>
<td>TIXX 9705 Intro to Constr Trades, B</td>
<td>72</td>
</tr>
<tr>
<td>TIXX 9706 Intro to Constr Trades, C</td>
<td>72</td>
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<tr>
<td>TIXX 9708 Carpentry Framing (Rough)</td>
<td>105</td>
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<td><strong>Total</strong></td>
<td><strong>601</strong></td>
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**Electives**

<table>
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<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ABE 2075 Math for Constr Trades</td>
<td>87.5</td>
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<tr>
<td>TIDR 9567 Intro to Comp Aided Draft</td>
<td>175</td>
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<tr>
<td>TIDR 9568 Blueprint Reading, Constr</td>
<td>105</td>
</tr>
<tr>
<td>TIEE 9574 Nat'l Electrical Code</td>
<td>105</td>
</tr>
<tr>
<td>TIXX 9505 Nat'l Plumbing Code</td>
<td>105</td>
</tr>
<tr>
<td>TIXX 9701 Haz Mats Handling</td>
<td>105</td>
</tr>
<tr>
<td>TIXX 9707 Ext &amp; Int Finishes</td>
<td>105</td>
</tr>
<tr>
<td>LAIR 9809 Labor Rel in Select Indus</td>
<td>105</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>892.5</strong></td>
</tr>
</tbody>
</table>

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

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**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 550-4380.

**Core Course**

<table>
<thead>
<tr>
<th>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><strong>Total</strong></td>
<td><strong>738</strong></td>
</tr>
</tbody>
</table>

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**Industrial Machinery**

**Industrial Maintenance Mechanic 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 550-4380.

**Admission Requirements**: None

**Core Course**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIIM 9641 Ind Maint Mech</td>
<td>4 x 270 hr</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>1,080</strong></td>
</tr>
</tbody>
</table>

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

**Requirements for Completion**: Completion of required hours with a grade of C or higher.
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
The fundamentals of refrigeration and air conditioning systems. Includes the principles of electricity, use of meters and Ohms Law, diagnosing electrical components and circuits, electrical motors, gas welding, brazing, refrigeration systems, heat exchange, freezer systems, compression sealed systems, etc.

TIAP 9502 Refrigeration/Air Conditioning II
Prereq.: TIAP 9501 or equivalent
Includes sealed system repair, sealed system diagnosis, air conditioning systems, fundamentals of air conditioning, domestic air conditioning circuits and controls, system diagnosis, filters and air cleaners and the refrigeration/air condition technician.

Business Machine Technology
TIBM 9543. Computerized Machine Technology/ Electronics
Prereq.: ABE 2070; ABE 2074
DC and AC circuits, semiconductors, digital hardware, machine level programming, and a proficiency in microcomputer software.

TIBM 9550. Introduction to Office Machine Repair
Prereq.: 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
Prereq.: ESLN 3700
Introduction to the concepts, terminology, components, schematic reading, troubleshooting and repair of modern microprocessor controlled photocopiers. Includes hands-on labs and use of tools.

TIBM 9553. AC/DC Electronics - Introduction (105 hrs)
Prereq.: TIBM 9550; 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
Prereq.: 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
Prereq.: TIBM 9550; 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
Prereq.: 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
Prereq.: TIBM 9558; 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
Prereq.: SECY 9388; 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)
Prereq.: 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.

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)
Prereq.: 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.
TI CU 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
TI DR 9564. Mechanical Drawing - All Levels (180 hrs)
Prereq.: 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.

TI DR 9565. Mechanical Drawing I (180 hrs)
Prereq.: ABE 2074; ABE 2075; ESLN 3500
Introduction to drafting. Emphasis on mechanical/machine applications. Topic areas include conventional lines, lettering technique, freehand sketching, instrumental drawing, orthographic projection, and dimension techniques.

TI DR 9566. Mechanical Drawing II (180 hrs)
Prereq.: TI DR 9565; ABE 2074; ESLN 3500
Developing of drafting skills. Emphasis on mechanical/machine applications of working drawings including details and assembly. Includes sectional and auxiliary views, graphic primary revolution, review of dimensioning techniques, isometric, oblique, and perspective projections, intersections and development layouts. Includes use of computer-aided drafting.

TI DR 9567. Introduction to Computer Aided Drafting (CAD) (180 hrs)
Prereq.: TI DR 9565; ESLN 3500
Concepts and operation of visual engineering drawing preparation using a computer. Common ways used for initial data entry will be studied. Includes alphanumeric keyboard, graphics tablet, and mouse using Auto CAD software. Common methods to retrieve programs and store drawings will be used. Assignments accomplished with conventional drafting techniques.

TI DR 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 induction, capacitors, relays, and resistors. Laboratory includes the operation of signal generators, power supplies oscilloscopes, and VTVMs.

TIEE 9572. DC Electricity (108 hrs)
Prereq.: 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
The application of the municipal code of rules and regulations necessary for electrical workers. Include permit procedures, enforcement and inspections, general technical requirements, approved locations, and brand circuits.

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.

Electronics
TIEL 9590. Electronics I Theory and Technology
Presentation of solid state theory: diodes, zeners, LEDs, transistors, FETs, SCR's, 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
Prereq.: ABE 2075; ABE 2074
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
TILM 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.
TIXX 9641. Industrial Maintenance Mechanics
Prereq.: ESLN 3800; ABE 2074
Preparation for entry-level employment in the mechanical trades. Instruction includes: mechanics, blueprint reading, electricity, sheet metal, basic gas welding, tool identification, cation, precision measuring instruments, hydraulics and pneumatics, shop safety, and shop math.

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

Police Officer
TIP0 9647. Police Training Reserve and Limited Peace Officer
Prereq.: ABE 2074
Training for limited peace officers (probation officers) with the power to arrest in accordance with their position. Meets the minimum standards established by the California Commission of Peace Officers Standards and Training. Includes basic criminal law, laws of arrest, methods of arrest, search and seizure, and discretionary decision making.

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.

Other Specialty Courses
TIXX 9503. Boiler Theory, Operation, and Maintenance (105 hrs)
Prereq.: 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)
Prereq.: 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 Code (N.P.C.) (111 hrs)
Covers the plumbing code, the plumbing system, isometric drawings used in the trade, the drainage system, the vent system, traps, clean-outs, DWV materials, the water distribution, valves, faucets, hot water, and gas systems. Also includes maintenance and repair of plumbing fixtures, blueprint reading, and use of the Uniform Plumbing Code.

TIXX 9686. Fire Safety Director Training
Prereq.: ESLN 3600, ABE 2074
Presentation of good fire prevention and emergency behaviors related to large structures. Topics include a pre-disaster safety plan, communicating to occupants, human behaviors in disaster situations, fire safety organization guide, and codes and ordinances for fire and other disaster safety.

TIXX 9692. Watch Repair And Service
Prereq.: ABE 2074; ESLN 3600
Study of and practice in watch repairing and servicing. Instruction emphasizes repairing and servicing of mechanical and electronic timepieces, including the use of common and specialized watch-making tools and equipment for lathe operations. Instruction will prepare students for the national watch and service examination. Designed to prepare students for entry level employment in watch repairing and servicing.

TIXX 9699. Furnituremaking and Woodworking (108 hrs)
The principles and practices of furnituremaking and woodworking for entry level employment. Includes the use of techniques for and safety with woodworking hand tools and power machines. Also to demonstrate woodworking practices for designing, joinery, squaring, cutting, sanding, veneering, bending and jiggling. The basic practices for operating a small woodworking shop.

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 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)
Advising: 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)
Advising: 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)
Advising: 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.

Program Goal. Provides students with basic skills for employment, entry into job training programs, or further college study. The certificates offered are the Adult Basic Education Certificate, 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.

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Adult Basic Education
Core Courses:
Basic Skills Development
Individualized Reading/Writing
Oral/Written Communication
Math Skills Development
ABE/Pre-GED Skills Development

Requirements for Certificate of Completion.
1. Attendance of at least 100 hours of instruction meeting the standards established by the ABE Master Plan in reading, writing, listening, and mathematics.

Offered at the following campuses:
1. John Adams, 561-1900
2. Adult Learning and Tutorial Center, 241-2300
3. Mission, 550-4417
4. Southeast, 550-4300

NONCREDIT COURSES:
ABE 2003. Vocabulary And Spelling
Prereq.: ABE 2072
Designed to increase vocabulary and improve spelling skills. Some basic grammar will be included.

ABE 2035. Individualized Reading/Writing
Beginning reading and writing taught in an individualized, multi-sensory way. Specifically for those who have not acquired fundamental reading skills. Students are individually assessed and instruction is designed to meet the student's individual objectives. Critical reading skills are emphasized in the apprehension of practical materials with immediate applications. May be repeated.

ABE 2041. Civics Reading 1
Prereq.: ABE 2073
Purpose, structure, and function of our federal government. Emphasis on understanding the economic, social, and political problems at national level by studying current relevant issues and materials. Develops ability to listen to varying points of view. Emphasis on participation in the democratic process. With Civics Reading 2, this course satisfies high school diploma requirement.
ABE 2042. Civics Reading 2
Prereq.: ABE 2073
Purpose, structure, and function of our state and local governments. Emphasis on understanding current economic, social, and political issues at state and local levels. Development of the ability to listen to various points of view. Emphasis on participation in the democratic process. With Civics Reading 1, course satisfies high school diploma requirement.

ABE 2057. U.S. History 1/Readings
Prereq.: ABE 2073
History of pre-Civil War America, emphasizing the influence of past events on the present. Analysis of historical cause and effect from political, social, and economic viewpoints. Satisfies high school diploma requirement.

ABE 2058. U.S. History 2/Readings
Prereq.: 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. Satisfies high school diploma requirement.

ABE 2059. ABE/Pre-GED Skills Development
Prereq.: ABE 2073; ESLN 3400
Reading, writing and mathematics skills from basic through Pre-GED level. Prepares for GED, high school courses and vocational training programs. Includes lectures as well as individual and small group instruction. Instruction in Spanish is offered at the Mission Campus.

ABE 2069. Math Skills Development 5
A guided and individualized approach to basic mathematics using various instructional methods to enhance and reinforce student performance. Math skills include whole numbers, fractions, decimals, percentages, measurements. Introduction to algebra. Includes applications to life skills and critical thinking. May be repeated.

ABE 2070. Math Skills Development 1-2
Prereq.: ABE 2072
Addition, subtraction, multiplication, and division of whole numbers, and of dollars and cents, and their application to adult living. Emphasis on application of basic skills in functional context.

ABE 2071. Math Skills Development 3
Prereq.: ABE 2070
Calculations with whole numbers, decimals and common fractions, measurement, and dollars and cents, with applications to common adult activities.

ABE 2072. Oral/Written Communication 1
Initiates the development of reading, writing, listening, and speaking skills needed for adult competence in our society.

ABE 2073. Oral/Written Communication 2
Prereq.: ABE 2072
Intermediate development of the reading, writing, listening, and speaking skills needed for adult competence in our society.

ABE 2075. Math Skills Development 4
Prereq.: ABE 2071
Review of computation with decimals and fractions; calculations with percents; measurement, including metric; graphs. Applications of basic skills to daily life.

ABE 2081. Basic Skills Development
Reading, writing, and communication skills to prepare for high school courses, GED preparation courses, and entry into vocational training programs. Includes lectures as well as individual and small group instruction. Instruction is self-paced.

ABE 2082. Literacy in Spanish
Designed for Spanish speaking students with limited literacy. Basic reading and writing in Spanish.

Adult Basic Education - Vocational NONCREDIT COURSES:
ABE 2074. Oral/Written Communication 3
Prereq.: ABE 2073
Completes the development of the basic reading, writing, listening, and speaking skills needed for adult competence in our society.

ABE 2078. Job Training Choices
Prereq.: ABE 2073; ESLN 3400
A survey of occupational fields with discussion of individual interests and skills. Vocational training opportunities in the community will be studied and evaluated to enable students to develop individual job-training plans.

ABE 2079. Success on the Job
Prereq.: ABE 2073; ESLN 3400
Work maturity skills needed for job success. In-class team activities and case studies help students develop the interpersonal skills and self-confidence needed on the job.

ABEV 2090. Literacy Tutor Training
Designed to provide the instructional and assessment techniques for volunteers and paraprofessionals who will be tutoring adult students in basic literacy skills.

ABEV 2091. Graphic Arts Academics
An integrated curriculum of academic and vocational instruction that offers a study of mathematics, science, and vocabulary as it relates to the field of graphic communications. Successful completion of this course prepares the student for entry into the Graphic Communications program.

General Education Development (GED)
GED (High School Equivalency). Preparation for the five GED test areas of Literature, Mathematics, Science, Social Studies, and Writing is offered in English and Spanish.
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

NONCREDIT COURSES:
GED 2101. GED English
Prereq.: ABE 2074
Reviewing the essentials of English grammar, mechanics, and composition. Provides the skills necessary to pass the GED writing skills test. A transitional course to enable the student to perform well in first year college English courses, a vocational program, or on the job.

GED 2105. GED Preparation
Prereq.: ABE 2074
Prepares the student to pass five sections of the GED test: Writing, Social Studies, Science, Literature and Mathematics. Includes instruction given individually and in small groups. Instruction in Spanish is offered at the Mission Campus.

Academic Skills Development
ABE 2083. Success in College
Prereq.: ABE 2073
An intensive mini-course designed to aid students in the transition from ABE/High School classes to college lecture courses. Emphasis on learning by means of lectures (taking notes and preparing outlines), on taking tests, and on making use of college resources, with attention to critical thinking skills.

HSEN 2267. Grammar/Spelling/Vocabulary 4
Prereq.: ABE 2074
English grammar and usage; compound and complex sentences; punctuation; spelling; vocabulary building.

HSEN 2285. Classroom Communication Skills
Prereq.: ABE 2074
Fundamentals of effective speaking and listening necessary for academic success. Practice with oral presentations through listening to lectures, discussions, and directions, and with group discussion in the classroom and other ordinary situations. Meets the needs of college bound students and students who wish to improve their performance.

HSWR 2600. Creative Writing
Prereq.: ABE 2074
Development of writing skills for academic and personal needs using the techniques of basic fiction and poetry writing. Focus is on critical analysis of basic craftsmanship: story line, dramatic conflict, characters, dialogue and point of view.

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High School Studies
Adult High School Diploma
(John Adams Campus, 561-1900)

Plan I
Core Courses:
- English
- Mathematics
- Social Science (U.S. History, World History, Culture, Geography, 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 transferred 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).
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 materials.

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.

The GED test battery is also given in French. For information on GED testing and assessment, see "GED Testing and Assessment Center."
NONCREDIT COURSES:

**Adult Competency Education (ACE)**

_HSLB 2700. ACE Learning Center_

A competency based, self-paced learning center offering all required high school courses. Subject areas and objectives vary by student according to previously acquired high school credit and student goal. Emphasis on critical thinking skills applied to each subject.

**Career Development**

_HSCA 2150. Career and Income Management_

Prereq.: ABE 2074

Career awareness, job search and job retention. Employment development and income management. Emphasizes reading, writing, speaking, workability, and interpersonal skills necessary to become and stay employable.

**Civics**

_HSCI 2204. Civics 1_

Prereq.: ABE 2074

Purpose, structure, and function of our federal government with emphasis on understanding current economic, social and political problems at the national level. Develops the ability to listen to varying points of view. Emphasizes participation in the democratic process.

_HSCI 2205. Civics 2_

Prereq.: ABE 2074

Purpose, structure, and function of our state and local governments with emphasis on understanding current economic, social and political issues at the state and local levels. Develops the ability to listen to varying points of view. Emphasis on participation in the democratic process.

**Economics**

_HSEC 2225. Economics_

Prereq.: ABE 2074

Economics in theory and practice. Supply and demand, unemployment, inflation, money and banking. Economic concepts will be applied to student's personal financial decisions.

**English**

_HSEN 2250. Literature/Composition/Grammar_

Essentials of English grammar and usage, writing skills. Survey of basic forms of English and American literature. Students make written reports, with emphasis on paragraph development, punctuation, and spelling.

_HSEN 2268. Grammar/Spelling/Vocabulary 5_

Prereq.: HSEN 2267

Advanced grammar/spelling/vocabulary. English grammar and usage; further spelling and vocabulary building.

_HSEN 2271. Grammar and Composition 4_

Prereq.: ABE 2074

Writing paragraphs and letters. Emphasis on the persuasive letter. Includes review of basic sentence structure. Students will learn to analyze and edit their own work.

_HSEN 2272. Grammar and Composition 5_

Prereq.: HSEN 2271

Paragraph and essay writing with a condensed review of grammar and mechanics. Compositions in response to essay questions and excerpts from literature. Critical analysis and revision of own work is emphasized.

**History**

_HISH 2351. United States History 1_

Prereq.: ABE 2074

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.

_HISH 2352. United States History 2_

Prereq.: ABE 2074

U.S. History following the Civil War, emphasizing the influence of past events on the present. Analysis of historical cause and effect from political, social, and economic viewpoints.

**Science**

_HISS 2565. General Science_

Prereq.: ABE 2074

The study of how people are influenced by the physical world. Topics include earthquakes, storms, climate, the oceans, natural resources, and the earth's relationships to the sun and the moon. Current events are analyzed using course concepts.

**Women's Studies**

Announcement of Courses

**CREDIT, DEGREE APPLICABLE COURSES:**

_AFAM 60. African American Women in the United States (3)_

Lec-3

Analysis of the Black woman in America from 1619 to the present; particular emphasis on struggles for rights in American society and on contributions made to the society. CSU/UC

_ANTH 25. Culture, Gender and Sexuality (3)_

Lec-3

CR/NCR 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)
Lect, 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. 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)
Lect-3
Examination of the lives of Asian American women, using a multi-disciplinary 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)
Lect-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)
Lect-3—CR/NCR avail.
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 special topics. Applies and contrasts mainstream and political economic theories within a feminist perspective. CSU

ENGL 1A. University-Parallel Reading and Composition (3)
Lect-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)
Lect-3—CR/NCR avail.
An intensive examination of the literary efforts of African American women writers beginning with the Slave Narratives to the present. CSU/UC

ENGL 57. Women and Literature (3)
Lect-3, field trips—CR/NCR avail.
Prereq.: Eligible for ENGL 1A
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 re-discovered authors. CSU/UC

ENGL 58A. Contemporary Women Writers and Poets (3)
Lect-3
Prereq.: Eligible for 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)
Lect-3—CR/NCR 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 effect of homophobia and minority status within the lesbian dyad. CSU/UC

GLST 30. Issues in the Lesbian Community (3)
Lect-3—CR/NCR 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)
Lect-3, field trips—CR/NCR avail.
Advisory: Eligible for ENGL 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)
Lect-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 health care modalities, and current controversies. CSU

HIST 12A-12B. Women in American History (3-3)
Lect-3—CR/NCR 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)
Lect-3, field trips—CR/NCR avail.
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 twentieth century 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/NCR avail.
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/NCR 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

LABR 78A-78B-78C. Women's Employment Issues (1-1-1)
Lec-1 CR/NCR 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/NCR avail.
The lives and experiences of Latinas living in the U.S. The effects that their experiences have on self-esteem. Multidisciplinary discussion and analysis of major social and cultural issues and themes. CSU

P E 550. Self Defense For Women (1)
Lec-2
An integrated approach to rape prevention incorporating psychological, physical and preventive skills. CSU/UC

PSYC 15. Assertive Behavior (1)
Lec-1 CR/NCR 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 25. Psychology of Sex Differences (3)
Lec-3 CR/NCR 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/NCR 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.