

PHILOSOPHY

(PHIL)

1. +Introduction to Philosophy

3 units, 3 hours lecture

Acceptable for credit: CSU, UC

[CAN Phil 2]

Study of selected classic examples of original works of philosophers: Literature of the discipline and analytical methods, aims, goals, and types of problems peculiar to philosophers and philosophical inquiry; metaphysics, epistemology, valuing and axiology, and aesthetics and religion. 1509.00

AA/AS area 3; CSU area C2; IGETC area 3

2. +Social and Political Philosophy

3 units, 3 hours lecture

Acceptable for credit: CSU, UC

Focus on classic examples of social and political philosophy in Western civilization: Original writings by classic Greeks (Plato and Aristotle), Americans (Hamilton, Madison, and Jefferson), modern Europeans (Marx and Mill), and appropriate contemporary philosophers. 1509.00

AA/AS area 3; CSU area C2; IGETC area 3

10. +Logic

3 units, 3 hours lecture

Acceptable for credit: CSU, UC

[CAN Phil 6]

Consideration of logical problems of language, deduction and induction, fallacies, theory of argument and the scientific method, and study of correct reasoning in Aristotelian and modern logic. 1509.00

AA/AS area 3; CSU area A3

48NA-TZ. +Selected Topics in Philosophy

.5-5 units

See section on Selected Topics. 1509.00

49. +Independent Study in Philosophy

.5-5 units

Course study under this section may be repeated three times.

See section on Independent Study. 1509.00

248NA-TZ. +Selected Topics in Philosophy

.5-5 units

See section on Selected Topics. 1509.00

PHYSICAL EDUCATION

(P E)

The Physical Education curriculum is organized into three segments: Preprofessional courses of more than one unit utilizing lecture/laboratory teaching; skills courses of one-half unit; and intercollegiate athletic courses of three units. The courses in physical education strive to develop skills and knowledge related to the specific discipline and to improve the individual's physiological skills of flexibility, strength, balance, and cardio-respiratory vigor. Students are eligible to enroll in the intermediate and advanced sections if they already have skills and experience in that discipline. Students are also encouraged to enroll in more than one course each semester.

Transferability to University of California System: The University of California System grants a maximum of four semester units of credit for appropriate physical education "activity" courses (also called "athletics," "human resources," "adaptive P. E., etc.). These courses are not listed on the Transfer Course Articulation (TCA) list. Physical education "theory" courses or courses that do not fit either the "theory" or "activity" category are not included in the four semester credit limit prescribed for physical education activity courses and continue to be listed on the TCA list if deemed transferable. Physical education courses that are primarily vocational in nature, such as Aerobic Instructor Training or Fire Academy Protection Preparation, are not transferable.

2A-D. +Aerobics

.5 units each level, 2 hours laboratory

Acceptable for credit: CSU, UC

Course study under this section may be repeated three times.

Activity class: Development of cardiovascular and respiratory systems of the body through oxygen intake. 0835.00

5A-D. +Badminton

.5 units each level, 2 hours laboratory

Acceptable for credit: CSU, UC

Course study under this section may be repeated three times.

Activity class: Fundamentals and skills in badminton. 0835.00

7A-D. +Basketball

.5 units each level, 2 hours laboratory

Acceptable for credit: CSU, UC

Course study under this section may be repeated three times.

Activity class: Fundamentals and skills in basketball. 0835.00

9A-D. +Body Conditioning

.5 units each level, 2 hours laboratory

Acceptable for credit: CSU, UC

Course study under this section may be repeated three times.

Activity class: Emphasis on muscle tone, stretching and development of aerobic capacity; may include weight training.

0835.00

12A-D. +Flag Football

.5 units each level, 2 hours laboratory

Acceptable for credit: CSU, UC

Course study under this section may be repeated three times.

Activity class: Football skills, fundamentals, and techniques.

0835.00

14A-D. +General Exercise

.5 units each level, 2 hours laboratory

Acceptable for credit: CSU, UC

Course study under this section may be repeated three times.

Activity class: Development of muscular strength and endurance of the cardiovascular and respiratory systems; flexibility, agility, coordination and balance; principles of body mechanics and kinesiology. 0835.00

15A-D. +Golf

.5 units each level, 2 hours laboratory

Acceptable for credit: CSU, UC

Course study under this section may be repeated three times.

Activity class: Basic golf skills and knowledge, and progression from the practice range to the golf course. 0835.00

17A-D. +Tai Chi Chuan

.5 units each level, 2 hours laboratory

Acceptable for credit: CSU, UC (pending)

Course study under this section may be repeated three times.

Activity class: Development of mind and body based on the combined principles of hardness and softness and each one overcoming the other; mastering intricate moves, gaining strength and flexibility, toning muscles, and increasing mental awareness while feeling an inner calm. 0835.00

30A-D. +Soccer

.5 units each level, 2 hours laboratory

Acceptable for credit: CSU, UC

Course study under this section may be repeated three times.

Activity class: Fundamentals and skills in soccer. 0835.00

32A-D. +Softball

.5 units each level, 2 hours laboratory

Acceptable for credit: CSU, UC

Course study under this section may be repeated three times.

Activity class: Fundamentals and skills in softball; rules and strategy. 0835.00

35A-D. +Tennis

.5 units each level, 2 hours laboratory

Acceptable for credit: CSU, UC

Course study under this section may be repeated three times.

Activity class: Fundamentals and skills in tennis. 0835.00

36A-D. +Track and Field

.5 units each level, 2 hours laboratory

Acceptable for credit: CSU, UC

Course study under this section may be repeated three times.

Activity class: Fundamentals and skills in track and field.

0835.00

38A-D. +Volleyball

.5 units each level, 2 hours laboratory

Acceptable for credit: CSU, UC

Course study under this section may be repeated three times.

Activity class: Fundamentals and skills in volleyball. 0835.00

39A-D. +Weight Training

.5 units each level, 2 hours laboratory

Acceptable for credit: CSU, UC

Course study under this section may be repeated three times.

Activity class: Use of weights to build various muscle groups and increase overall body power and strength. 0835.00

40A-D. +Yoga

.5 units each level, 2 hours laboratory

Acceptable for credit: CSU, UC

Course study under this section may be repeated three times.

Activity class: Development of basic yoga postures, conscious breathing patterns, and relaxation techniques; stretching and relaxation; and strengthening and stimulating creative energy. 0835.00

41A-D. +Activities for Fitness

.5-1 unit each level, 1.5-3 hours laboratory

Acceptable for credit: CSU, UC

Course study under this section may be repeated three times.

Physical activities: Basketball, badminton, weight training, and volleyball which contribute to the development of optimum body fitness. 0835.00

42A-D. +Stretch Aerobics

.5 units each level, 2 hours laboratory

Acceptable for credit: CSU, UC

Course study under this section may be repeated three times.

Activity class: Development of overall fitness with emphasis on the cardiovascular system through stretch aerobics. 0835.00

48NA-TZ. +Selected Topics in Physical Education

.5-5 units

See section on Selected Topics. 0835.00

49. +Independent Study in Physical Education*.5-5 units**Course study under this section may be repeated three times.*

See section on Independent Study. 0835.00

51A-D. +Adaptive Weight Training and Conditioning*1 unit, 3 hours laboratory**Recommended for students with physical disabilities. Because this class is physical in nature, it is recommended that students receive medical clearance prior to participation.**Course study under this section may be repeated three times.*

A physical activity course designed to help students with disabilities improve muscle strength, aerobic capacity, and flexibility. Activities are designed to meet individual goals and needs. 0835.80

52. +Aerobics of Jogging*2 units, 1 hour lecture, 3 hours laboratory**Acceptable for credit: CSU, UC*

Conditioning through jogging: Physiology of exercise, fundamentals of diet and weight control, pace work in distance running, proper equipment, use of body mechanics, testing for self-improvement, and overall fitness. 0835.00

56A-C. +Basketball – Fundamentals*2 units each level, 2 hours lecture**Acceptable for credit: CSU, UC**Course study under this section may be repeated two times.*

Knowledge of strategy, rules, and principles of team play; emphasis on fundamental skill development. 0835.00

57. +Basketball – Officiating*1 unit, 1 hour lecture, 1 hour laboratory**Acceptable for credit: CSU, UC*

Development of officiating skills leading to greater understanding and appreciation of the sport and to potential job placement. 0835.00

58A-B. +Basketball – Theory and Practice*2 units each level, 1 hour lecture, 3 hours laboratory**Acceptable for credit: CSU, UC**Course study under this section may be repeated one time.*

Theory and practice of basketball fundamentals. 0835.00

64. +Golf – Theory and Practice*2 units, 1 hour lecture, 3 hours laboratory**Acceptable for credit: CSU, UC*

Skill and knowledge through the study of rules, club selection, and advanced golf shots: Practice and development of skills on a regulation golf course, and individual stroke analysis. 0835.00

73. +Track and Field – Officiating*1 unit, 1 hour lecture, 1 hour laboratory**Acceptable for credit: CSU, UC*

Development of officiating skills leading to greater understanding of the sport and to potential job placement. 0835.00

91A-D. Basketball – Men [Intercollegiate]*1.5 units each level, 5 hours laboratory**Acceptable for credit: CSU, UC**Course study under this section may be repeated three times.*

Application of theory, team organization, technique, strategy, and leadership in competition with other colleges. 0835.50

92A-D. Basketball – Women [Intercollegiate]*1.5 units each level, 5 hours laboratory**Acceptable for credit: CSU, UC**Course study under this section may be repeated three times.*

Application of theory, team organization, technique, strategy, and leadership in competition with other colleges. 0835.50

93A-B. Cross Country – Men and Women [Intercollegiate]*3 units each level, 10 hours laboratory**Acceptable for credit: CSU, UC**Course study under this section may be repeated one time.*

Application of theory, team organization, technique, strategy, and leadership in competition with other colleges. 0835.50

100A-B. +Track and Field – Men and Women [Intercollegiate]*3 units each level, 10 hours laboratory**Acceptable for credit: CSU, UC**Course study under this section may be repeated one time.*

Application of theory, team organization, technique, strategy, and leadership in competition with other colleges. 0835.50

201A-D. +Fitness and Health Maintenance Activities*.5-2 units each level, 2-8 hours laboratory each level**Course study under this section may be repeated three times.*

Conditioning through the use of exercises and apparatus with emphasis on overall improvement of the cardiovascular system. 0835.00

248NA-TZ. +Selected Topics in Physical Education*.5-5 units*

See section on Selected Topics. 0835.00

PHYSICAL SCIENCE

(PHYSC)

35A-D. +Energy-Efficient Design and Construction

2 units each level, 1.5 hours lecture, 1.5 hours laboratory
Acceptable for credit: CSU

Course study under this section may be repeated three times. Strategies for energy- and resource-efficient living in the Merritt College Self-Reliant House and Garden: Design and construction, testing of energy and resource-efficient model systems, measurements and evaluation of active and passive heating and cooling systems, alternative energy sources, and recycling systems. 0946.10

48NA-TZ. +Selected Topics in Physical Science

.5-5 units

See section on Selected Topics. 1901.00

49. +Independent Study in Physical Science

.5-5 units

Course study under this section may be repeated three times. See section on Independent Study. 1901.00

248NA-TZ. +Selected Topics in Physical Science

.5-5 units

See section on Selected Topics. 1901.00

PHYSICS

(PHYS)

2A-2B. General Physics

5-5 units, 4 hours lecture, 3 hours laboratory

Prerequisite for Phys 2A: Math 50 or 52C.

Prerequisite for Phys 2B: Phys 2A

Acceptable for credit: CSU, UC

[Phys 2A: CAN Phys 2], [Phys 2B: CAN Phys 4]

[Phys 2A+Phys 2B: CAN Phys Seq A]

2A: Comprehensive study of mechanics, properties of matter, thermodynamics, heat, wave motion, and sound.

2B: Comprehensive study of light, optics, electricity, magnetism, atomic physics, and modern physics. 1902.00

AA/AS area 1; CSU area B1, B3; IGETC area 5A, 5C

4A. General Physics with Calculus

5 units, 4 hours lecture, 3 hours laboratory

Prerequisite or corequisite: Math 3A or (4B)

Recommended preparation: Phys 10

Acceptable for credit: CSU, UC

[CAN Phys 8]

[Phys 4A+Phys 4B+Phys 4C: CAN Phys Seq B]

Intensive study of mechanics, properties of matter, wave motion, and sound. 1902.00

AA/AS area 1; CSU area B1, B3; IGETC area 5A, 5C

4B. General Physics with Calculus

5 units, 4 hours lecture, 3 hours laboratory

Prerequisite: Phys 4A or (quarter-system Phys 4B at COA)

Prerequisite or corequisite: Math 3B or (4C).

Acceptable for credit: CSU, UC

[CAN Phys 12]

[Phys 4A+Phys 4B+Phys 4C: CAN Phys Seq B]

Intensive study of electricity and magnetism, heat and thermodynamics. 1902.00

AA/AS area 1; CSU area B1, B3; IGETC area 5A, 5C

4C. General Physics with Calculus

5 units, 4 hours lecture, 3 hours laboratory

Prerequisite: Phys 4B or (quarter-system Phys 4C at COA)

Prerequisite or corequisite: Math 3C or (4D)

Acceptable for credit: CSU, UC

[CAN Phys 14]

[Phys 4A+Phys 4B+Phys 4C: CAN Phys Seq B]

Intensive study of optics, relativity, and quantum mechanics. 1902.00

AA/AS area 1; CSU area B1, B3; IGETC area 5A, 5C

10. Introduction to Physics

4 units, 4 hours lecture

Recommended preparation: Math 201 or 210D or (204B), and Math 202

Not open to students who have completed or are currently enrolled in Physics 2A-2B or Physics 4A-4B-4C.

Acceptable for credit: CSU, UC

Elementary introduction to field of physics: Mechanics, heat, electricity and magnetism, sound, optics, and modern physics. 1902.00

AA/AS area 1; CSU area B1; IGETC area 5A

48NA-TZ. Selected Topics in Physics

.5-5 units

See section on Selected Topics. 1902.00

49. Independent Study in Physics

.5-5 units

Course study under this section may be repeated three times.

See section on Independent Study. 1902.00

248NA-TZ. Selected Topics in Physics*.5-5 units*

See section on Selected Topics. 1902.00

**POLITICAL
SCIENCE****(POSCI)****1. +Government and Politics in the United States***3 units, 3 hours lecture**Acceptable for credit: CSU, UC**[CAN Govt 2]*

Introduction to principles and the political process of national, state, and local government: Emphasis on national government and the Constitution. 2207.00

AA/AS area 2; CSU area D; IGETC area 4; CSU American Institutions, Group 2

2. +Comparative Government*3 units, 3 hours lecture**Acceptable for credit: CSU, UC*

Comparative analysis of political leadership, citizenship participation, centers of power, and political problems of selected governments. 2207.00

AA/AS area 2; CSU area D; IGETC area 4

3. +International Relations*3 units, 3 hours lecture**Acceptable for credit: CSU, UC*

Nature of relations among nation-states: Analysis of basic forces affecting formulation of foreign policy, dynamics of international politics, survey of rise and development of the nation-state system, problems of nationalism and imperialism with emphasis on development since World War II, and evolution and operation of the United Nations. 2207.00

AA/AS area 2; CSU area D; IGETC area 4

4. +Political Theory*3 units, 3 hours lecture**Acceptable for credit: CSU, UC*

Examination of various theoretical approaches to politics and of basic political problems and proposed solutions: Analysis of selected political theories and ideologies, relevance of theory to contemporary problems, and new approaches to political thought. 2207.00

AA/AS area 2; CSU area D; IGETC area 4

16. +State and Local Government*3 units, 3 hours lecture**Acceptable for credit: CSU*

Survey of governmental institutions and politics in California and the San Francisco Bay Area: Development of public policy and current issues such as federalism, elections, taxation, land uses, and political parties. 2207.00

AA/AS area 2; CSU area D; CSU American Institutions, Group 2

20. +Current World Problems*3 units, 3 hours lecture**Acceptable for credit: CSU, UC*

World problems with emphasis on four major areas of concern: Population explosion, war, ideological confrontation, and disparity of resources among nations. 2207.00

AA/AS area 2; CSU area D; IGETC area 4

48NA-TZ. +Selected Topics in Political Science*.5-5 units*

See section on Selected Topics. 2207.00

49. +Independent Study in Political Science*.5-5 units**Course study under this section may be repeated three times.*

See section on Independent Study. 2207.00

248NA-TZ. +Selected Topics in Political Science*.5-5 units*

See section on Selected Topics. 2207.00

PSYCHOLOGY

(PSYCH)

1A-1B. +Introduction to General Psychology

3-3 units, 3 hours lecture

Acceptable for credit: CSU, UC

[Psych 1A: CAN Psy 2]

1A: Scientific principles of psychology: Application of scientific research in understanding learning, human development, biological processes, personality, behavior disorders, social psychology, and adjustment of the human organism.

1B: Continuation of PSYCH 1A with addition of psychological research methods, and principles of behavior modification.

2001.00

AA/AS area 2; CSU area D; IGETC area 4

3. Introduction to Personality Theory

3 units, 3 hours lecture

Acceptable for credit: CSU, UC

Classical and contemporary personality theories: Theorists from each of the major forces in psychology: Psychoanalytical (Freud, Jung, Adler), behavioral (Skinner, Bandura), and humanistic (Maslow, Rogers). 2001.00

AA/AS area 2; CSU area D; IGETC area 4

6. +Social Psychology

3 units, 3 hours lecture

Acceptable for credit: CSU, UC

Psychological aspects of human social life involved in the relationship between identity and social structure: Human behavior in the context of the individual as an acting and interacting member of various groups in society. 2001.00

AA/AS area 2; CSU area D; IGETC area 4

10. Psychology and Life: Basic Principles

3 units, 3 hours lecture

Acceptable for credit: CSU, UC

Basic principles of psychology and recent research developments in the context of contemporary psychological issues pertaining to individuals and their interactions. 2001.00

AA/AS area 2; CSU area D; IGETC area 4

12. +Human Sexuality

3 units, 3 hours lecture

Also offered as Biol 27 and Hlted 27. Not open for credit to students who have completed or are currently enrolled in Biol 27 or Hlted 27.

Acceptable for credit: CSU, UC

Explores and analyzes the multifaceted aspects of human sexuality: Physiological, psychological, anatomical, sociological, legal, medical, educational, cultural; urogenital system of both sexes, birth control devices, and pregnancy. 2001.00

AA/AS area 1, 2; CSU area D, E; IGETC area 4

24. Abnormal Psychology

3 units, 3 hours lecture

Prerequisite: Psych 1A

Acceptable for credit: CSU, UC

Survey of the major psychological disorders: Historical perspectives of various theoretical models (biological, psychodynamic, behavioral, cognitive, humanistic, existential, socio-cultural); review of research for understanding origins and most promising treatments. 2001.00

AA/AS area 2; CSU area D; IGETC area 4

33. Personal and Social Adjustment

3 units, 3 hours lecture

Acceptable for credit: CSU, UC

Dynamics of personal and social developments and related determinants. 2001.00

AA/AS area 2; CSU area D

48NA-TZ. +Selected Topics in Psychology

.5-5 units

See section on Selected Topics. 2001.00

49. +Independent Study in Psychology

.5-5 units

Course study under this section may be repeated three times.

See section on Independent Study. 2001.00

248NA-TZ. +Selected Topics in Psychology

.5-5 units

See section on Selected Topics. 2001.00

RADIOLOGIC SCIENCE

(RADTE)

The purpose of the Merritt College Radiologic Science Program is to prepare qualified practitioners who are competent in the art and science of medical imaging. Radiologic Technologists manipulate sophisticated technical equipment and computers to obtain detailed images of the human body. These images assist physicians in the diagnosis of injury and disease in the clinical environment. Radiologic Technologists work in hospitals, clinics, imaging centers, and physician's offices. A successful and competent Radiologic Technologist is one who thinks critically, solves problems creatively, possesses strong technical skills, and cares for patients with sensitivity and compassion. The technologist must be flexible and able to work with patients from diverse cultural backgrounds with various needs, abilities, injuries, and disease processes. The program's mission focuses on developing these important characteristics in program graduates.

The program seeks to:

1. Prepare students to demonstrate competency in the essential aspects of medical imaging while meeting the needs of the health care workforce.
2. Develop skills in team building, critical thinking, and effective communication.
3. Instill appropriate attitudes and foster affective growth in providing care and responding to patients' needs during imaging procedures.
4. Promote professional growth and life-long learning.

The **AS degree and the Certificate in Radiologic Science** will be awarded upon satisfactory completion of the Prerequisite requirements, the General Education requirements, and the Major course requirements. **The certificate option is available only to those who have already completed the AS degree coursework.**

The curriculum includes a clinical practicum that is conducted within various East Bay hospitals. This is a continuous program of 24 months duration. Students applying to the program must be prepared to make a full-time commitment (approximately 36 hours per week during daytime hours) for two full years, including summers. Upon successful completion of the required courses in Radiologic Science and the Merritt College Associate Degree requirements (or equivalent), the student is eligible to take the American Registry of Radiologic Technologists examination required for licensure and practice in the state of California. Upon successful completion of the program and licensing examination, graduates will qualify for employment as Radiologic Technologists performing a wide variety of patient radiographic procedures in hospitals, clinics, and medical offices and imaging centers.

The program is accredited by the Joint Review Committee on Education in Radiologic Technology, 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606-3182 (www.jrcert.org), and the California Department of Health Services, Radiologic Health Branch, MS 7610, PO Box 997414, Sacramento, CA 95899-7414 (www.dhs.ca.gov/rhb).

Enrollment in the program is once a year in the Fall semester, by special application directly to the Radiologic Science Department. The application period is between January 15 and April 15 for the class beginning the following fall semester. All courses used for consideration for enrollment must be completed by April 15. All supporting documents must be received no later than April 15.

The following requirements and curriculum pattern include revised degree and certificate requirements for the Radiologic Science program, effective for the Fall 2006 semester. Students who started the program prior to Fall 2006 have the option of completing the requirements under the previous plan in the 2003-05 catalog provided they have been continuously enrolled (see Catalog Rights).

A. Eligibility/Admission Requirements:

1. Completion of high school or GED test or equivalent.
2. Completion of all prerequisite courses prior to application with a "C" grade or better in each course and an overall GPA of 2.5 or better (average for prerequisite courses only).
3. Prerequisite courses must be current within seven (7) years.
4. Currency for old Math and English courses may be established by taking the Math and English assessment tests (available through the Merritt College Counseling department).
5. Students must obtain medical clearance (at their own expense) and show proof of immunization for diphtheria, tetanus, polio, rubeola, rubella, mumps, and chicken pox before enrolling in the program. A negative tuberculosis screen (PPD skin test or chest X-ray) is also required. Immunization for Hepatitis B is strongly suggested.
6. Students must obtain a background check (at their own expense) prior to enrolling in the program. Students with a history of felony convictions including abuse or fraud may be excluded from participating in clinical education and from taking the ARRT licensing examination. Other types of offenses may also result in exclusion from clinical education (at the discretion of the clinical affiliate) and/or the licensing examination. Students with such histories are encouraged to seek a pre-application review with both the American Registry of Radiologic Technologists (www.arrt.org, 651-687-0048, ext. 580), and the California Department of Health Services (www.dhs.ca.gov/rhb, 916-327-5106).

B. Application Procedures (Between January 15 and April 15):

After completion of the prerequisite courses, and as many of the General Education courses as possible, applicants shall:

1. Request **three official** sets and **one unofficial** set of transcripts from all colleges attended (including colleges within the Peralta Community College District). One set should be sent directly to the Peralta Community College District Admissions and Records Office (333 East 8th St., Oakland, CA 94606). Two official sets and one unofficial set should be sent directly to the student. Two official sets from each college must remain sealed to be submitted to the Radiologic Science Department along with the application packet. The unofficial set is for review by the counseling department at Merritt College and may be opened and reviewed by the student. Any transcripts sent directly to the Merritt College Radiologic Science Department without accompanying application materials will be returned.
2. Request one set of high school transcripts or provide proof of high school completion (a copy of the diploma or GED certificate, or equivalent). This document must be submitted with the application packet.
3. Schedule an appointment with the counseling department for verification of the prerequisite and General Education courses completed. Upon verification, the counselor will complete a "Permit to Apply" form. The completed "Permit to Apply" and General Education progress record must be submitted to the Radiologic Science Department in order to obtain a program application. **Application materials are not accepted from students who have not completed the prerequisite courses.**
4. Submit the **complete application packet** directly to the Radiologic Science Department. A complete application packet consists of: the Permit to Apply, a record of the General Education coursework completed (verified by a counselor), the completed application, assessment test scores to validate Math and/or English coursework more than seven (7) years old, proof of high school graduation (or equivalent), and two official (unopened) sets of transcripts from each college attended (including colleges in the Peralta Community College District). The application may be hand-delivered to the Allied Health office in D102 on the Merritt Campus, or mailed to the Merritt College Radiologic Science Department, 12500 Campus Drive, Oakland, CA 94619. **Incomplete application packets will be returned to the student.**

C. Post-Admission Requirement:

By the end of the first semester of the program, the student shall provide proof of current CPR (Basic Life Support for the Health Care Provider) certification, to be kept current throughout the length of the program. Tuberculosis screening must also be kept current throughout the length of the program.

Prerequisite Requirements:

Students must have completed the four prerequisite courses, with a grade of "C" or better in each course, before applying to the program. Additionally, the average GPA for the four prerequisite courses must be at least 2.5. The prerequisites include:

1. Radte 1A, Survey of Radiologic Science (this course may **not** be waived for any reason; it must be taken at Merritt College to qualify).
2. Math 201, Elementary Algebra, or higher (equivalent course may be taken at other colleges).
3. Anatomy and Physiology (must have a lab in which a human cadaver is examined/dissected; equivalent course may be taken at other colleges). At Merritt College there are three options that qualify:
Biol 24*, Basic Human Anatomy and Physiology (4 units total) **OR**
Biol 20A **and** 20B, Human Anatomy and Physiology (5 units each, 10 units total) **OR**
Biol 2, Human Anatomy, **and** Biol 4, Human Physiology (5 units each, 10 units total)
4. Engl 1A, Composition and Reading (equivalent course may be taken at other colleges).

*Students should be advised that the department will likely discontinue acceptance of Biol 24 as a prerequisite after April 15, 2006.

Highly Recommended:

CIS 1, Introduction to Computer Information Systems (course may be challenged by exam; equivalent course may be taken at other colleges). Students entering the program are expected to demonstrate proficiency using Microsoft Word, Microsoft PowerPoint presentation software, and e-mail, and navigating the Internet. Students who are not proficient are advised to complete CIS 1 at Merritt (or an equivalent course at another college).

Recommended Preparation:

A. General Education Requirements:

It is highly recommended that General Education requirements be completed prior to admission into the program due to the heavy coursework load and time demands of the Major course requirements. The General Education requirements are found in the "Degrees and Majors" section of this catalog. All degree requirements must be satisfied in order to complete the program and gain eligibility to take the ARRT licensure examination.

The following specific coursework and experiences are advised as **recommended preparation** for the program. A recommended preparation is not required for enrollment, but will broaden and deepen a student's learning experience while in the program

and may increase the likelihood of successful program completion.

Coursework:

1. Higher Mathematics (such as College Algebra, Intermediate Algebra, Pre-Calculus, or Calculus)
2. Physics, such as Introduction to Physics, General Physics, or Physics of Radiation and/or Electromagnetism.
3. Medical Terminology
4. Professional or Business Communications
5. Introduction to Computer Information Systems (CIS 1 at Merritt) or an equivalent course(s). A course or a combination of courses should result in proficiency in the use of Microsoft Word, Microsoft PowerPoint presentation software, and e-mail, and navigating the Internet.

Recommended coursework may satisfy some of the General Education requirements. Students should meet with a Merritt College counselor to plan accordingly.

B. Experiences:

1. Work experience (as an employee or volunteer) in a health care environment, preferably involving direct patient care.
2. Customer service experience (as an employee or volunteer) involving face-to-face contact and communication with the public.

Student Selection:

In the event that the number of qualified applicants exceeds the available program slots, a method of student selection will be determined by the department and college administration. Detailed information regarding the student selection process for a particular application period may be obtained from the Radiologic Science Department and will be presented in the prerequisite course, **Radte 1A, Survey of Radiologic Science**. In the event the class is not filled by qualified applicants by the deadline date of April 15th, the deadline may be extended until announced in order to fill the class. Depending on the number of clinical placements available at affiliate sites, the program accepts approximately 30 students per year. All applicants are notified of acceptance status.

Degree Major/Certificate Requirements:

FIRST YEAR

UNITS

First Semester (Fall):

RADTE 1B	Introduction to Medical Imaging	2
RADTE 1C	Introduction to Medical Imaging (Clinic)	2.5
RADTE 2A	Radiographic Physics I	2
RADTE 3A	Positioning I	4
RADTE 5A	Patient Care I	<u>3</u>
	Total units:	13.5

Second Semester (Spring):

RADTE 2B	Radiographic Physics II	4
RADTE 3B	Positioning II	4
RADTE 9A	Clinical Experience I (16 hours per week)	<u>4</u>
	Total units:	12.0

Third Semester (Summer):

RADTE 4A	Radiation Protection	2
RADTE 4B	Radiobiology	2
RADTE 10A	Seminar	1.5
RADTE 9B	Clinical Experience II (24 hours per week)	<u>4</u>
	Total units:	9.5

SECOND YEAR

Fourth Semester (Fall):

RADTE 2C	Digital Applications in Medical Imaging	4
RADTE 5B	Patient Care II	3
RADTE 9C	Clinical Experience III (24 hours per week)	<u>6</u>
	Total units:	13.0

Fifth Semester (Spring):

RADTE 6	Quality Management/Fluoroscopy	2.5
RADTE 7	Advanced Imaging Procedures	3
RADTE 8	Sectional Anatomy and Radiographic Pathology	4
RADTE 9D	Clinical Experience IV (24 hours per week)	<u>6</u>
	Total units:	15.5

Sixth Semester (Summer):

RADTE 10B	Seminar	1.5
RADTE 9E	Clinical Experience V (36 hours per week)	<u>6</u>
	Total units:	7.5

Total required major units: 71.0

1A. Survey of Radiologic Science

1.5 units, 1.5 hours lecture

Acceptable for credit: CSU

Exploration of educational/career options in diagnostic radiologic science: Includes policy for program entry, the job functions of a radiologic technologist and observations in a clinical setting; introduction to medical terminology, radiographic examinations, basic radiation safety principles, standard precautions, patient care, ethics and medical-legal issues, and advanced specialty modalities. Covers both positive and negative aspects of the field regarding the pursuit of a career in this area. 1225.00

1B. Introduction to Medical Imaging

2 units, 6 hours lecture per week for 6 weeks (36 term hours)

Prerequisite: Radte 1A

Recommended preparation: Engl 1A

Acceptable for credit: CSU

Overview of allied health professions with specific attention to the medical imaging technologist: Allied health education, ethical behavior, medical-legal issues and liabilities, interpersonal communication, radiation safety, universal precautions, and preparation for clinical experience. 1225.00

1C. Introduction to Medical Imaging (Clinic)

2.5 units, 12 hours laboratory per week for 11 weeks (132 term hours)

Prerequisite: Radte 1B (taken first during same term as Radte 1C); and health clearances: physical examination, and recent negative TB (PPD) skin test or chest X-ray test results, and recent immunization against diphtheria, tetanus, polio, rubella, rubella, mumps, and chicken pox (varicella)

Acceptable for credit: CSU

Introduction to the clinical environment (carried out in an affiliated hospital) with emphasis on patient care and positioning; Orientation to the hospital and radiology department, medical records, darkroom/processing area, quality assurance; equipment and department safety, and radiographic procedures. 1225.00

2A. Radiographic Physics I

2 units, 1.5 hours lecture, 2 hours laboratory

Prerequisite: Math 201 or 210D or (204B), and Engl 1A

Recommended preparation: CIS 1

Acceptable for credit: CSU

Introduction to principles of radiographic physics and radiographic quality factors: X-ray beam production and tube characteristics, basic control-panel elements, image processing, radiographic intensifying screens, film, and grids; emphasis on compensating for modifications in basic imaging factors such as patient physical characteristics and position, tube position, distance, intensifying screen and film speed, grid ratio, and exposure factors. 1225.00

2B. Radiographic Physics II

4 units, 3 hours lecture, 4 hours laboratory

Prerequisite: Radte 2A

Acceptable for credit: CSU

Continuation of RADTE 2A: Units of measure, matter and atomic structure, electromagnetic radiation, magnetism, electricity, electromagnetism; x-ray unit and tube, circuitry, production, emission, and interaction with matter. 1225.00

2C. Digital Applications in Medical Imaging

4 units, 3 hours lecture, 4 hours laboratory

Prerequisite: Radte 2B

Corequisite: Radte 9C

Acceptable for credit: CSU

Continuation of Radte 2B: Technology applicable to specialized operation of computed/digital radiography and fluoroscopy, picture archiving and communication and radiology information systems; hands-on applications of software packages used to simulate job skills needed in a hospital clinical environment. 1225.00

3A. Positioning I

4 units, 3 hours lecture, 4 hours laboratory

Prerequisite: Radte 1A; and Biol 24, or Biol 20A and 20B, or Biol 2 and 4

Recommended preparation: CIS 1; and healthcare and/or customer service work experience or business or professional communications courses; and medical terminology or Hltoc 201

Acceptable for credit: CSU

Terminology, accessory devices, and equipment used in radiographic procedures: Application of protective devices; anatomy review and positioning for examinations of the chest, abdomen, and upper and lower extremities to include the shoulder, bony thorax, and pelvis. 1225.00

3B. Positioning II

4 units, 3 hours lecture, 4 hours laboratory

Prerequisite: Radte 1B and 2A and 3A and 5A

Acceptable for credit: CSU

Continuation of RADTE 3A: Anatomy review and positioning for examinations of the biliary system, upper and lower gastrointestinal tracts, urinary system, spine, cranium, facial bones, sinuses and temporal bone. 1225.00

4A. Radiation Protection

2 units, 36 term hours lecture

Prerequisite: Radte 2B and 3B and 9A

Acceptable for credit: CSU

Physics of ionizing radiation: Photon and particle interaction with living tissue, protective materials and barriers, state and federal regulations governing radiation and consumer protection, practical methods and principles used in producing optimum images while limiting patient exposure, instrumentation in detecting and monitoring radiation, and measurement of useful scatter radiation. 1225.00

4B. Radiobiology

2 units, 36 term hours lecture

Prerequisite: Radte 2B and 3B and 9A

Acceptable for credit: CSU

Continuation of RADTE 4A: Study of the effects of ionizing-radiation exposure on human and animal populations: Photon and particulate ionizing-radiation interactions with living tissue at the atomic, molecular, cellular, organic, and whole-body levels; physical and biologic factors affecting radiosensitivity; risk estimates/perspectives for patients subject to diagnostic and interventional radiology procedures and radiation therapy procedures; early and late radiation effects and acute radiation syndrome; and scientific basis for current radiation protection philosophies and regulations. 1225.00

5A. Patient Care I*3 units, 3 hours lecture, 1 hour laboratory**Prerequisite: Engl 1A; and Biol 24, or Biol 20A and 20B, or Biol 2 and 4**Acceptable for credit: CSU*

Ethical and interpersonal responsibilities of the health-team members: Theory and practice in assessing patient care, evaluation of radiographic orders, medical-legal ethics, medical terminology related to all major body systems, medical asepsis, barrier and transmission-based isolation techniques, and contrast preparation and administration techniques. 1225.00

5B. Patient Care II*3 units, 3 hours lecture**Prerequisite: Radte 3B and 5A**Acceptable for credit: CSU*

Advanced patient-care skills: Patient assessment, technologist action during medical emergencies, pharmacology, drug classification/administration/physiological action, contrast media and associated hazards, venipuncture for contrast-media administration; sensitivity to cultures represented by a varied patient population, special care needs for patients with chronic disabilities, and legal and ethical issues in the clinical environment. 1225.00

6. Quality Management/Fluoroscopy*2.5 units, 2 hours lecture, 2 hours laboratory**Prerequisite: Radte 2C, and 4A or 4B, and 9C**Corequisite: Radte 9D**Acceptable for credit: CSU*

Demonstrations of quality assurance procedures emphasizing high-quality patient care in regards to radiation protection and radiation biology: Quality assurance concepts; equipment monitoring and maintenance programs for radiography, fluoroscopy, and film processing; retake analysis programs; and production of standard technical charts. 1225.00

7. Advanced Imaging Procedures*3 units, 3 hours lecture**Prerequisite: Radte 2C and 5B and 9C**Acceptable for credit: CSU*

Advanced imaging procedures and equipment: Fluoroscopy, digital fluoroscopy and radiography, image recording systems, angiography, interventional procedures, CT, MRI, US, and NM; contrast media and patient care; present and future medical imaging trends. 1225.00

8. Sectional Anatomy and Radiographic Pathology*4 units, 4 hours lecture**Prerequisite: Radte 2C and 5B and 9C**Acceptable for credit: CSU*

Systematic classification of disease: Signs and symptoms of common diseases, radiographic examination and treatment of diseases, application of plain and special imaging modalities in the diagnostic process utilizing sagittal, axial and coronal imaging planes of head, neck, spine, chest, abdominal and pelvic cavities and joints. Anatomic reference points, intersecting planes and medical terminology used to identify relationships of organs as well as pathological conditions. 1225.00

9A. Clinical Experience I*4 units, 16 hours laboratory**Prerequisite: Radte 1B and 2A and 3A and 5A**Acceptable for credit: CSU*

Clinical practicum in a medical-imaging department of an affiliated clinical training center. 1225.00

9B. Clinical Experience II*4 units, 24 hours laboratory/week for 12 weeks (Summer only)**Prerequisite: Radte 2B and 3B and 9A**Acceptable for credit: CSU*

Continuation of RADTE 9A: Clinical practicum in a medical-imaging department of an affiliated clinical training center. 1225.00

9C. Clinical Experience III*6 units, 24 hours laboratory**Prerequisite: Radte 4B and 9B and 10A**Acceptable for credit: CSU*

Continuation of RADTE 9B: Advanced clinical practicum in a medical-imaging department of an affiliated clinical training center. 1225.00

9D. Clinical Experience IV*6 units, 24 hours laboratory**Prerequisite: Radte 3B and 5B and 9C**Acceptable for credit: CSU*

Continuation of RADTE 9C: Advanced clinical practicum in a medical-imaging department of an affiliated clinical training center. 1225.00

9E. Clinical Experience V*6 units, 36 hours laboratory/week for 12 weeks (Summer only)**Prerequisite: Radte 9D**Acceptable for credit: CSU*

Continuation of RADTE 9D: Advanced clinical practicum in a medical-imaging department of an affiliated clinical training center. 1225.00

9M. +Mammographic Clinical Experience*4 units, 16 hours laboratory**Prerequisite: Radte 12**Acceptable for credit: CSU*

Clinical practicum in a breast-imaging department of an affiliated hospital. Students/radiographers are responsible for securing their own affiliated clinical site. 1225.00

10A. Seminar*1.5 units, 1.5 hours lecture**Prerequisite: Radte 2B and 3B and 9A**Acceptable for credit: CSU*

Discussion and analysis of topics relevant to the radiologic sciences: Advanced skull and facial bone positioning, trauma radiography, innovative imaging procedures, special considerations for the pediatric patient, ethical case studies, advances in infection control, and new developments in the field including equipment and techniques. 1225.00

10B. Seminar*1.5 units, 1.5 hours lecture**Prerequisite: Radte 7 and 8**Acceptable for credit: CSU*

Preparation for state licensing and national registry examinations: Assistance with job-interview skills and resume preparation, updates of CAL OSHA regulations, California and national radiologic health regulations regarding radiation/occupational safety and patient care; exploration of other topics, and problem solving related to patient care and medical imaging in clinical and community settings. 1225.00

11. Medical-Imaging Computer Applications*1 unit, 1.5 hours lecture, 2 hours laboratory for 9 weeks**Prerequisite: CIS 205 or 240**Acceptable for credit: CSU*

Understanding of technology applicable to specialized operation of computerized imaging equipment: Computerized tomography, digital imaging (graphics), digital subtraction radiography (DSA), magnetic resonance imaging (MRI), nuclear medicine, and ultrasound; hands-on applications of interactive-integrated software packages used to simulate job skills needed in a hospital clinical setting. 1225.00

12. +Mammography for Radiographers*2.5 units, 40 term hours lecture, 15 term hours laboratory**Prerequisite: Radte 4A and 4B**Acceptable for credit: CSU*

Preparation for state exam for Mammography Certification: History of mammography, image education and breast anatomy and physiology, positioning of the breast, positioning the breast with mammoplasties, technical factors in mammography, quality assurance and instrumentation, state and national accreditation standards, communication for the mammographer, breast cancer, image interpretation, medical-legal issues in mammography. 1225.00

48NA-TZ. +Selected Topics in Radiologic Science*.5-9 units*

See section on Selected Topics. 1225.00

49. +Independent Study in Radiologic Science*.5-5 units**Course study under this section may be repeated three times.*

See section on Independent Study. 1225.00

248NA-TZ. +Selected Topics in Radiologic Science*.5-9 units*

See section on Selected Topics. 1225.00

251. Clinical Experience for the Returning Student (First Year)*3 units, 12 hours laboratory*

Prerequisite: Radte 1B; and health clearances: physical examination, and recent negative TB (PPD) skin test or chest X-ray test results, and recent immunization against diphtheria, tetanus, polio, rubeola, rubella, mumps, and chicken pox (varicella)

Non-degree applicable

Clinical practicum in a medical-imaging department of an affiliated clinical training center for the returning student. Recommended before entry into the second semester courses of the program. 1225.00

252. Clinical Experience for the Returning Student (Second Year)*4-6 units, 16-24 hours laboratory*

Prerequisite: Radte 1B and 2A and 3A and 5A; and health clearances: physical examination, and recent negative TB (PPD) skin test or chest X-ray test results, and recent immunization against diphtheria, tetanus, polio, rubeola, rubella, mumps, and chicken pox (varicella)

Non-degree applicable

Advanced clinical practicum in a medical-imaging department of an affiliated clinical training center for the returning student. Recommended for students in the second year of the program. 1225.00

348NA-TZ. +Selected Topics in Radiologic Science*.5-9 units**Non-degree applicable.*

See section on Selected Topics. 1225.00

REAL ESTATE

(RLEST)

The major in Real Estate provides excellent preparation for the broker's or salesperson's license and contributes to efficiency in many allied professions. The **AA degree in Real Estate** will be awarded upon satisfactory completion of the Major course requirements and the General Education requirements. A **Certificate** will be awarded upon satisfactory completion of the major course requirements.

Degree Major/Certificate Requirements:

RLEST 2A	Principles of Real Estate	3
RLEST 4A	Legal Aspects of Real Estate	3
RLEST 5	Real Estate Practice	3
RLEST 6A	Real Estate Finance	3
RLEST 6B	Advanced Real Estate Finance	3
RLEST 7A	Real Estate Appraisal	3
RLEST 7B	Real Estate Appraisal	3
RLEST 9	Real Estate Economics	3
RLEST 14	Real Estate Investments	3
	Total required units:	27

Recommended:

RLEST 4B	Advanced Legal Aspects of Real Estate (3)
RLEST 8	Property Management (3)
RLEST 10	Real Estate Mathematics (3)
RLEST 11	Escrow Procedures (3)
RLEST 12	Tax Aspects of Real Estate (2)
RLEST 13	Real Estate Exchanges and Exchange Taxation (3)

2A. +Principles of Real Estate

3 units, 3 hours lecture

Acceptable for credit: CSU

Basic laws and principles of California real estate: Provides understanding, background, and terminology necessary for advanced study in specialized courses; designed to assist those preparing for the real estate salesperson's licensing examination. 0511.00

4A. +Legal Aspects of Real Estate

3 units, 3 hours lecture

Prerequisite or corequisite: Rlest 2A

Acceptable for credit: CSU

Basic legal aspects of real estate: Nature and classes of property, contracts, encumbrances, and leases; and principles of law applied to real estate. 0511.00

4B. +Advanced Legal Aspects of Real Estate

3 units, 3 hours lecture

Prerequisite: Rlest 4A

Acceptable for credit: CSU

Advanced legal aspects of real estate: Nature and classes of property, contracts, encumbrances, and leases; and principles of law applied to real estate. 0511.00

5. +Real Estate Practice

3 units, 3 hours lecture

Prerequisite or corequisite: Rlest 2A

Acceptable for credit: CSU

Comprehensive presentation of daily activities of brokers and salespersons: Selling, listing, advertising, taking and presenting offers, qualifying buyers; appraisal, finance, and escrow procedures; taxation, investment property, and exchanges. 0511.00

6A. +Real Estate Finance

3 units, 3 hours lecture

Prerequisite or corequisite: Rlest 2A

Acceptable for credit: CSU

Basic real estate finance: Study and analysis of money markets, interest rates, real estate financing, lending policies, and problems involved in financing real property; emphasis on homes with brief introduction to multi-family units. 0511.00

6B. +Advanced Real Estate Finance

3 units, 3 hours lecture

Prerequisite: Rlest 2A

Prerequisite or corequisite: Rlest 6A

Acceptable for credit: CSU

Advanced real estate finance: Detailed study of financing for multi-family units, commercial properties, and special-purpose projects. 0511.00

7A. +Real Estate Appraisal

3 units, 3 hours lecture

Prerequisite: Rlest 2A

Acceptable for credit: CSU

Basic real estate appraisal: Study of methods and techniques used to determine value; emphasis on residential property with brief introduction to multi-family units. 0511.00

7B. +Advanced Real Estate Appraisal

3 units, 3 hours lecture

Prerequisite or corequisite: Rlest 7A

Acceptable for credit: CSU

Advanced real estate appraisal: Study of methods and techniques used to determine value, marketability, and return on multi-family units and commercial and other investment properties. 0511.00

8. +Property Management

3 units, 3 hours lecture

Prerequisite or corequisite: Rlest 2A

Acceptable for credit: CSU

Real estate management: Neighborhood analysis and trends, rent schedules, leases, accounting, maintenance, and landlord/tenant relations; the business of property management. 0511.00

9. +Real Estate Economics

3 units, 3 hours lecture

Prerequisite or corequisite: Rlest 2A

Acceptable for credit: CSU

Introductory study of city, neighborhood, and property value changes; analysis of contemporary real estate economic problems; includes field trips. 0511.00

10. +Real Estate Mathematics

3 units, 3 hours lecture

Prerequisite or corequisite: Rlest 2A

Acceptable for credit: CSU

Real estate mathematics: Study to assist the student with the mathematics portion of the licensing examination and to assist the agent in his/her everyday transactions. 0511.00

11. +Real Estate Escrow Procedures

3 units, 3 hours lecture

Prerequisite or corequisite: Rlest 2A

Acceptable for credit: CSU

Procedures, techniques, and areas of responsibility in handling escrows. 0511.10

12. +Tax Aspects of Real Estate

2 units, 2 hours lecture

Prerequisite: Rlest 2A or Real Estate license

Acceptable for credit: CSU

Study of the tax factors in real estate transactions that affect the profit factor in the purchase, holding, financing, and sale of real property. 0511.00

13. +Real Estate Exchanges and Exchange Taxation

3 units, 3 hours lecture

Prerequisite or corequisite: Rlest 2A

Acceptable for credit: CSU

Introduction to the theory, mechanics, and tax aspects of real estate exchanges: Balancing equities, contacts, and escrow procedures. 0511.00

14. +Real Estate Investments

3 units, 3 hours lecture

Prerequisite or corequisite: Rlest 2A

Acceptable for credit: CSU

Survey and analysis of real estate investments: Counseling, valuation, after-tax benefits, and a brief introduction to exchanges. 0511.00

48NA-TZ. +Selected Topics in Real Estate

.5-9 units

See section on Selected Topics. 0511.00

49. +Independent Study in Real Estate

.5-5 units

Course study under this section may be repeated three times.

See section on Independent Study. 0511.00

248NA-TZ. +Selected Topics in Real Estate

.5-9 units

See section on Selected Topics. 0511.00

RECREATION AND LEISURE SERVICES

(RECSE)

The Recreation and Leisure Services program is designed to qualify students for a variety of positions in recreation and leisure leadership. These positions can be located in municipal, private, commercial, and industrial recreation agencies, park services, therapeutic recreation services, and youth-serving agencies. Students who complete the requirements may also qualify for transfer to a four-year institution.

The AA degree in Recreation and Leisure Services will be awarded upon satisfactory completion of the Major course requirements and the General Education requirements.

Degree Major Requirements:

RECSE 50	Introduction to Recreation and Leisure Services	3
RECSE 52	Social Recreation Leadership	3
RECSE 55	Outdoor Recreation	3
RECSE 57	Recreation Program Planning	3
RECSE 58A	Recreation Leadership	2
RECSE 58B	Recreation Leadership	2
CHDEV 60	Literature for the Young Child (3)	
	or	
CHDEV 66	Music for Young Children (2)	
	or	
CHDEV 68	Play-Based Curriculum (3)	
	or	
MUSIC 1A	Musicianship (3)	3
PSYCH 1A	Introduction to General Psychology (3)	
	or	
PSYCH 1B	Introduction to General Psychology (3)	
	or	
PSYCH 10	Psychology and Life: Basic Principles (3)	3
SOC 1	Introduction to Sociology	3
	Total required units:	25

Recommended:

CHDEV 51	Child Growth and Development (formerly Facs 51) (3)
COMM 20	Interpersonal Communication Skills (3)

48NA-TZ. +Selected Topics in Recreation and Leisure Services

.5-9 units

See section on Selected Topics. 0836.00

49. +Independent Study in Recreation and Leisure Services

.5-5 units

Course study under this section may be repeated three times.
See section on Independent Study. 0836.00

50. Introduction to Recreation and Leisure Services

3 units, 3 hours lecture

Acceptable for credit: CSU

[CAN Rec 2]

Nature, scope, and significance of recreation in the social and economic life of the American people: Definition, history, purpose, functions, organizational patterns, and inter-relationships of group agencies and institutions which serve recreational needs of the community. 0836.00
CSU area E

52. Social Recreation Leadership

3 units, 3 hours lecture

Acceptable for credit: CSU

Theory and application of leadership in social recreation activities: Mechanics of party planning, techniques of presentation, and a repertoire of social games. 0836.00
CSU area E

53. +Recreation for Living

2 units, 1 hour lecture, 3 hours laboratory

Acceptable for credit: CSU

Recreational services and opportunities available in the East Bay. 0836.00
CSU area E

55. Outdoor Recreation

3 units, 3 hours lecture

Acceptable for credit: CSU

History, principles, and trends of organized camping: Conservation of nature, role of leaders in outdoor recreation, psychological aspects of camper's development, vocational opportunities and placement, and practical skills in firecraft and outdoor cooking. 0836.00
CSU area E

57. Recreation Program Planning

3 units, 3 hours lecture

Prerequisite: Two courses in Recreation and Leisure Services

Acceptable for credit: CSU

Methods and techniques of planning, organizing, conducting, controlling, and evaluating recreation programs. 0836.00
CSU area E

58A. Recreation Leadership

2 units, 1 hour lecture, 3 hours laboratory

Acceptable for credit: CSU

Study of leadership: Identification of the phenomenon of leadership, and the leadership process. 0836.00
CSU area E

58B. Recreation Leadership

2 units, 1 hour lecture, 3 hours laboratory

Prerequisite: Recse 58A

Acceptable for credit: CSU

Continuation of RECSE 58A: Identification of the phenomenon of leadership, and developing and improving leadership skills. 0836.00
CSU area E

248NA-TZ. +Selected Topics in Recreation and Leisure Services

.5-9 units

See section on Selected Topics. 0836.00

SOCIAL AND BEHAVIORAL SCIENCES (SOCSC)

The AA degree in Social and Behavioral Sciences will be awarded upon satisfactory completion of the Major course requirements and the General Education requirements.

Degree Major Requirements:

Completion of at least 18 units in courses from the Social and Behavioral Sciences (Area Two of the General Education Course List):

AFRAM:	2, 5, 8, 10, 12, 14A, 14B, 16, 19 ¹ , 25, 27, 28 ² , 30, 31, 32, 33, 34, 45
ANTHR:	2, 3, 4, 5, 7, 8, 13, 16, 18, 30A-D ⁵
ASAME:	20, 21, 29, 30, 32, 45A, 45B
BUS:	5, 10, 52
CHDEV:	50, 51 (formerly Facs 51), 53, 57A
COMM:	6, 10, 18, 22 (formerly Spch 6, 10, 18, respectively)
COSER:	10
ECON:	1 ³ , 2, 10, 11 ³
EDUC:	1
ENGL:	38
ENVST:	11, 76A-D ⁽⁴⁾⁽⁵⁾ , 78A ⁽⁴⁾⁽⁵⁾ , 78B ⁽⁴⁾⁽⁵⁾
GEOG:	2, 5, 10
HLTED:	1
HIST:	2A, 2B, 7A, 7B, 8A, 8B, 14, 15, 19, 27, 30A, 30B, 32
HUSV:	53 (formerly Coser 45)
M/LAT:	6 ¹ , 12, 19 ⁶ , 23, 28 ² , 30A, 30B
NATAM:	76A-D ⁽⁴⁾⁽⁵⁾ , 78A ⁽⁴⁾⁽⁵⁾ , 78B ⁽⁴⁾⁽⁵⁾

POSCI:	1, 2, 3, 4, 16, 20	
PSYCH:	1A, 1B, 3, 6, 10, 12, 24, 33	
SOC:	1, 2, 3, 5	<u>18</u>
	Total required units:	18

- ¹Afram 19 is the same as M/Lat 6; maximum credit: one course.
²Afram 28 is the same as M/Lat 28; maximum credit: one course.
³Econ 1 and Econ 11; maximum credit: one course.
⁴Envst 76A-D, 78A and 78B are the same as Natam 76A-D, 78A and 78B, respectively; maximum credit: one course.
⁵Each course must be taken for a minimum of 3 units to satisfy Area 2 requirements.
⁶M/Lat 19 is the same as Hist 17 at Alameda, Laney and Vista; maximum credit: one course.

SOCIOLOGY (SOC)

1. +Introduction to Sociology

3 units, 3 hours lecture

Acceptable for credit: CSU, UC

[CAN Soc 2]

Introduction to sociology: Analysis of human group life through principles, concepts, and theories. 2208.00

AA/AS area 2; CSU area D; IGETC area 4

2. +Social Problems

3 units, 3 hours lecture

Acceptable for credit: CSU, UC

[CAN Soc 4]

Study of society through application of sociological principles and critical thinking skills to the identification and analysis of selected social problems: Poverty, racism/sexism, drug abuse, crime, and population control. 2208.00

AA/AS area 2; CSU area D; IGETC area 4

3. +Sociology of Women

3 units, 3 hours lecture

Acceptable for credit: CSU, UC

Exploration of various conceptual frameworks regarding the status of women: Structure-function, role dynamics, dominant-subordinate minority group interaction, and concepts of oppression-liberation with emphasis on current trends of the movement. 2208.00

AA/AS area 2; CSU area D; IGETC area 4

5. Minority Groups

3 units, 3 hours lecture

Acceptable for credit: CSU, UC

Analysis of racial, religious, and ethnic minority groups: General principles of dominant-minority group relations. 2208.00

AA/AS area 2; CSU area D

48NA-TZ. +Selected Topics in Sociology

.5-5 units

See section on Selected Topics. 2208.00

49. +Independent Study in Sociology

.5-5 units

Course study under this section may be repeated three times.

See section on Independent Study. 2208.00

248NA-TZ. +Selected Topics in Sociology

.5-5 units

See section on Selected Topics. 2208.00

SOLID WASTE MANAGEMENT TECHNOLOGY (SWMT)

10. +Introduction to Solid Waste Management Technology

3 units, 3 hours lecture

Acceptable for credit: CSU

Solid waste management: Characteristics and amounts of solid wastes, collection systems, introduction to treatment processes, and return of treated wastes to the environment. 0303.00

SPANISH (SPAN)

The **AA degree in Spanish** will be awarded upon satisfactory completion of the Major course requirements and the General Education requirements.

Degree Major Requirements:

SPAN 1A	Elementary Spanish	5
SPAN 1B	Elementary Spanish	5
SPAN 2A	Intermediate Spanish	5
SPAN 2B	Intermediate Spanish	<u>5</u>
	Total required units:	20

1A-1B. +Elementary Spanish

5-5 units, 5 hours lecture

Prerequisite for Span 1B: Span 1A

Span 1A: Course is equivalent to two years of high school study.

Acceptable for credit: CSU, UC

[Span 1A: CAN Span 2], [Span 1B: CAN Span 4]

[Span 1A+Span 1B: CAN Span Seq A]

Courses are conducted in Spanish.

Study and practice in understanding, speaking, reading, and writing Spanish; and readings in Spanish and Spanish-American life and culture. 1105.00

AA/AS area 3; CSU area C2; IGETC Language; IGETC area 3 (Span 1B only)

2A-2B. +Intermediate Spanish*5-5 units, 5 hours lecture**Prerequisite for Span 2A: Span 1B**Prerequisite for Span 2B: Span 2A**Acceptable for credit: CSU, UC**[Span 2A: CAN Span 8], [Span 2B: CAN Span 10]**[Span 2A+Span 2B: CAN Span Seq B]**Courses are conducted in Spanish.***2A:** Grammar review, conversation, composition, reading, and aural-oral practice.**2B:** Selected readings from Spanish and Latin-America literature, grammar review, and advanced composition and conversation. 1105.00

AA/AS area 3; CSU area C2; IGETC area 3

22A. +Spanish for Bilingual/Native Speakers I*5 units, 5 hours lecture**Course is equivalent to two years of high school study.**Acceptable for credit: CSU, UC**Course is conducted entirely in Spanish.*

A course for students whose first/home language is Spanish: Critical reading and discussion of selected readings in Spanish with emphasis on reading development, orthography, grammar, lexical expansion, and composition. 1105.00

AA/AS area 3; CSU area C2; IGETC Language

22B. +Spanish for Bilingual/Native Speakers II*5 units, 5 hours lecture**Prerequisite: Span 22A**Acceptable for credit: CSU, UC**Course is conducted entirely in Spanish.*

Continuation of Spanish 22A. A course for students whose first/home language is Spanish: Further development of critical reading and discussion of selected readings in Spanish with emphasis on reading development, orthography, grammar, lexical expansion and composition. 1105.00

AA/AS area 3; CSU area C2; IGETC area 3

30A-30B. +Beginning Conversational Spanish*3-3 units, 3 hours lecture**Recommended preparation for Span 30B: Span 30A**Acceptable for credit: CSU*

Use of modern colloquial Spanish in conversation, and elementary grammar. 1105.00

AA/AS area 3; CSU area C2

31A. +Intermediate Conversational Spanish*3 units, 3 hours lecture**Prerequisite: Span 30B**Acceptable for credit: CSU*

Emphasis on intermediate-level conversational practice: Grammar review as needed; readings from conversation textbook, newspapers, and magazines in Spanish. 1105.00

AA/AS area 3; CSU area C2

31B. +Intermediate Conversational Spanish*3 units, 3 hours lecture**Acceptable for credit: CSU**Prerequisite: Span 31A*

Emphasis on intermediate-level conversational practice: Grammar review as needed; readings from conversation textbook, newspapers, and magazines in Spanish. 1105.00

AA/AS area 3

38. +Latin-American Literature*3 units, 3 hours lecture**Recommended preparation: Span 1B**Course is conducted in Spanish.**Acceptable for credit: CSU, UC*

Contemporary Latin-American literature through the reading of short stories and poetry from prominent Latin-American writers: Carlos Fuentes, Gabriel García-Márquez, Julio Cortázar, Pablo Neruda, and many others. 1105.00

AA/AS area 3; CSU area C2; IGETC area 3

40. +Hispanic Civilization and Culture*3 units, 3 hours lecture**Recommended preparation: Span 1B**Acceptable for credit: CSU, UC*

Study of Hispanic civilization and culture through readings in Spanish designed to develop active language skills. 1105.00

AA/AS area 3; CSU area C2; IGETC area 3

48NA-TZ. +Selected Topics in Spanish*.5-5 units*

See section on Selected Topics. 1105.00

49. +Independent Study in Spanish*.5-5 units**Course study under this section may be repeated three times.*

See section on Independent Study. 1105.00

248NA-TZ. +Selected Topics in Spanish*.5-5 units*

See section on Selected Topics. 1105.00

SWAHILI

(SWAHI)

1A. +Elementary Swahili*5 units, 5 hours lecture**Course is equivalent to two years of high school study.**Acceptable for credit: CSU, UC**Course is conducted in Swahili.*

Study and practice in speaking, understanding, reading and writing Swahili. 1116.00

AA/AS area 3; CSU area C2; IGETC Language

1B. +Elementary Swahili

5 units, 5 hours lecture

Prerequisite: Swahi 1A

Acceptable for credit: CSU, UC

Course is conducted in Swahili.

Continuation of Swahili 1A: Study and practice in speaking, understanding, reading and writing Swahili; readings in Swahili and East African culture. 1116.00

AA/AS area 3

VOCATIONAL NURSING

(V/NUR)

The Vocational Nursing curriculum is designed to prepare the student to practice intelligent care at the bedside, to assist in the rehabilitation of the sick and the prevention of disease, and to prepare the student for his/her role in the community as a contributing citizen, according to the basic principles of health and nursing. The Vocational Nursing curriculum is accredited by the California Board of Vocational Nurse and Psychiatric Technician Examiners. Graduates of this program are eligible to apply for the California state examination to become a Licensed Vocational Nurse (LVN).

The AS degree in Vocational Nursing will be awarded upon satisfactory completion of the Major course requirements and the General Education requirements. A **Certificate** will be awarded upon satisfactory completion of the major course requirements.

Eligibility/Admission/Completion Requirements:

Admission to the Vocational Nursing program is by evaluation of academic and personal qualifications. Completion of the program requires the student to maintain satisfactory performance (a 75% or better passing grade) in all Vocational Nursing courses and satisfactory performance in the clinical experience. Program requirements are as follows:

1. Applicants must be high school graduates or the equivalent.
2. Health clearances (physical examination and negative TB test results) are required, and are to be submitted to the Vocational Nursing Department before the start of the program.
3. Applicants must satisfactorily complete the prerequisite course, Biology 24 (or Biol 20A and 20B, or the equivalent), with grade "C" or better before applying to the program.
4. All Vocational Nursing courses in each semester must be completed satisfactorily with a performance grade of 75% or better before a student can enroll in the succeeding semester.

5. The clinical experience, whereby the student is required to work directly with patients, is a significant part of the program. In the interest of patient safety, repeated unsatisfactory performance in the clinical experience will subject a student to dismissal from the program.

Degree Major/Certificate Requirements:

First Semester:

V/NUR 214	Basic Medical-Surgical Nursing	15
V/NUR 215	Introduction to Pharmacology	1
V/NUR 216	Therapeutic Nutrition	$\frac{1}{1}$
	Subtotal:	17

Second Semester:

V/NUR 217	Intermediate Medical-Surgical Nursing	10
V/NUR 218	Intermediate Pharmacology	2
V/NUR 220	Maternal-Child Nursing	$\frac{4}{4}$
	Subtotal:	16

Third Semester:

V/NUR 219	Advanced Medical-Surgical Nursing	$\frac{17}{17}$
	Subtotal:	17

Total required units: 50

The sequence of courses may be altered due to availability of clinical facilities. Students will be notified in advance.

214. Basic Medical-Surgical Nursing

15 units, 9 hours lecture, 18 hours laboratory

Prerequisite: Biol 24, or Biol 20A and 20B; and health clearances: physical examination and negative TB test results

Theoretical framework for understanding the process of assessing and planning care of adult patients: Supervised application of the principles and practices of basic nursing care. 1203.20

215. Introduction to Pharmacology

1 unit, 1 hour lecture

Introduction to pharmacology: Mathematics of calculating medication dosages, apothecary and metric conversions, and principles and techniques of administering medications. 1203.20

216. Therapeutic Nutrition

1 unit, 1 hour lecture

Survey of dietary principles: Their application to selected medical conditions needing modification of normal dietary requirements. 1203.20

217. Intermediate Medical-Surgical Nursing

10 units, 7 hours lecture, 10 hours laboratory

Prerequisite: V/Nur 214 and 215 and 216; and health clearance: negative TB test results

Common health problems of adults: Dietary therapy and medications; socioeconomic, psychological, and cultural factors related to patient care; and supervised application of the principles and practices of intermediate nursing care of adults in clinical settings. 1203.20

218. Intermediate Pharmacology

2 units, 2 hours lecture

Prerequisite: V/Nur 215

Study of specific drugs: Drug categories, dosages, and actions; and related nursing implications. 1203.20

219. Advanced Medical-Surgical Nursing

17 units, 11 hours lecture, 18 hours laboratory

Prerequisite: V/Nur 217 and 218; and health clearance: negative TB test results

Study of selected health problems of adults requiring specific advanced nursing-care measures: Related dietary therapy, medications, and patient knowledge of specific treatments; supervised application of the principles and practices of advanced nursing care of adults in clinical settings; emphasis on preparation for licensure and employment. 1203.20

220. Maternal-Child Nursing

4 units, 2 hours lecture, 8 hours laboratory

Prerequisite: V/Nur 214 and 215 and 216

Principles of nursing care of patient during prenatal, labor, delivery, and postpartum periods: Observation or participation in obstetrics and care of the newborn in hospital settings; discussion of normal child growth and development, characteristics of the well child, and related socioeconomic, and cultural factors; supervised observation/participation in facilities which provide care for children. 1203.20

248NA-TZ. Selected Topics in Vocational Nursing

.5-9 units

See section on Selected Topics. 1203.20