

# GEOGRAPHY

(GEOG)

## 1. Physical Geography

*3 units, 3 hours lecture*

*Acceptable for credit: CSU, UC*

*[CAN Geog 2]*

Basic elements of the earth's physical systems and processes: Earth-sun relations, weather, climate, water, plate tectonics, landforms, soils, and ecosystems and their interrelationships and global distribution patterns. 2206.00

AA/AS area 1; CSU area B1, B3 (with Geog 1L satisfies lab requirement), D; IGETC area 5A, 5C (with Geog 1L satisfies lab requirement)

## 1L. Physical Geography Laboratory

*1 unit, 3 hours laboratory*

*Prerequisite or corequisite: Geog 1*

*Acceptable for credit: CSU, UC*

Practical application of the basic concepts and principles of physical geography: Earth-sun relationships, weather, climate, geologic processes, landforms, and field observations. 2206.00  
CSU area B3 (with Geog 1); IGETC area 5C (with Geog 1)

## 2. +Cultural Geography

*3 units, 3 hours lecture*

*Acceptable for credit: CSU, UC*

*[CAN Geog 4]*

Basic elements of cultural geography: Interrelationship of people and the land, including study of populations, cultural origins, migration, language and religion, ethnicity, systems of agriculture, urbanization, political units, economic organization and resource exploitation. 2206.00

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

## 5. Economic Geography

*3 units, 3 hours lecture*

*Acceptable for credit: CSU, UC*

Study of economic activities: Agriculture, natural resources, commercial fisheries, mining, manufacturing and transportation; and changes in land use and settlement. 2206.00

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

## 10. +Introduction to Geography

*3 units, 3 hours lecture*

*Acceptable for credit: CSU, UC*

Survey of the basic components of contemporary geography: Earth environments, economics, and resources issues; and physical, cultural, and political geography. 2206.00

AA/AS area 1, 2; CSU area B1, D; IGETC area 4

## 48NA-TZ. +Selected Topics in Geography

*.5-5 units*

See section on Selected Topics. 2206.00

## 49. +Independent Study in Geography

*.5-5 units*

*Course study under this section may be repeated three times.*

See section on Independent Study. 2206.00

## 248NA-TZ. +Selected Topics in Geography

*.5-5 units*

See section on Selected Topics. 2206.00

# GEOLOGY

(GEOL)

## 1. Introduction to Physical Geology

*4 units, 3 hours lecture, 3 hours laboratory*

*Two one-day field trips required.*

*Acceptable for credit: CSU, UC*

*[CAN Geol 2]*

Survey of materials and structures comprising the outer portion of the earth, and geologic processes responsible for sculpturing the earth: Plate tectonics and mountain building; formation of minerals and igneous, sedimentary and metamorphic rocks; deformation of rocks by folding and faulting; and erosion of the land surface. 1914.00

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

## 5. +Introduction to Oceanography

*3 units, 3 hours lecture*

*Acceptable for credit: CSU, UC (pending)*

Introduction to the oceans: Their history and topography; physical and chemical properties of sea water; causes and effects of currents, tides, and waves; distribution of marine resources; sea floor sediments; tectonics and paleomagnetism. 1914.00

AA/AS area 1

## 5L. +Introduction to Oceanography Laboratory

*1 unit, 3 hours laboratory*

*Prerequisite or corequisite: Geol 5*

*Acceptable for credit: CSU, UC (pending)*

Introduction to laboratory principles and techniques with emphasis on the physical marine environment. 1914.00

## 6. +Introduction to Planetary Geology

*3 units, 3 hours lecture*

*Acceptable for credit: CSU, UC (pending)*

Introduction to the geologic histories and processes that affect the planets, moons, and comets in our solar system. 1914.00

AA/AS area 1

**10. +Introduction to Geology***3 units, 3 hours lecture**Acceptable for credit: CSU, UC (pending)*

Survey of the structure and materials that compose the earth's surface and geologic processes responsible for shaping the earth: Nature and role of rocks and minerals; environmental processes and problems; dynamics of volcanism, earthquakes, plate tectonics, metamorphism, running water, ground water, glaciation, weathering and erosion. 1914.00  
AA/AS area 1

**12. +Environmental Geology***3 units, 3 hours lecture**Acceptable for credit: CSU, UC*

Introduction to the geologic aspects of environmental science: Natural hazards, human effects on geologic processes, energy and mineral resources, and global environmental change. 1914.00  
AA/AS area 1; CSU area B1; IGETC area 5A

**21. +Bay Area Field Studies**

*1-2 units, 3 hours lecture weekly for one week, and either 24 term lecture hours in the field (3 day trips for 1 unit), or 48 term lecture hours in the field (6 day trips for 2 units) to selected sites in the greater Bay Area.*

*Campus lecture required in order to participate in the field.**Acceptable for credit: CSU*

An in-the-field introduction to the richness of the geologic environment: Emphasis on the basic geologic processes that shape the earth's surface. 1914.00

**22. +Geology of Monterey Bay – Big Sur Area**

*1 unit, 3 hours lecture for 2 weeks, 16 term hours lecture in the field for one weekend*

*Acceptable for credit: CSU*

Geology of the Monterey Bay-Big Sur area: Monterey Submarine Canyon, Point Lobos State Reserve, and coastal geology from Monterey to south of Big Sur. 1914.00

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

See section on Selected Topics. 1914.00

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

See section on Independent Study. 1914.00

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

See section on Selected Topics. 1914.00

# HEALTH EDUCATION

(HLTED)

## 1. +Exploring Health Issues

3 units, 3 hours lecture

Acceptable for credit: CSU, UC

Examines current problems related to individual and community health: Sexual behavior, birth control, sexually-transmitted diseases, drugs, consumerism, environment, psychosomatic health, nutrition, physical fitness and preventive medicine. 0837.00

AA/AS area 2; CSU area E

## 11. +Cardiopulmonary Resuscitation

.5 units, .5 hours lecture

Meets American Red Cross CPR/Professional Rescuer certification requirements.

Acceptable for credit: CSU

Development of skills and knowledge for administering emergency first aid for respiratory failure and cardiac arrest.

0837.00

## 48NA-TZ. +Selected Topics in Health Education

.5-5 units

See section on Selected Topics. 0837.00

## 49. +Independent Study in Health Education

.5-5 units

Course study under this section may be repeated three times.

See section on Independent Study. 0837.00

## 248NA-TZ. +Selected Topics in Health Education

.5-5 units

See section on Selected Topics. 0837.00

# HEALTH PROFESSIONS & OCCUPATIONS

(HLTOC)

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## HEALTHCARE INTERPRETER

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### Certificate of Achievement Requirements:

#### First semester (Summer Session):

HLTOC 210	Survey of Healthcare Interpreting	.5
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#### Second semester:

HLTOC 211	Interpreting in Health Care I	6
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#### Third semester:

HLTOC 212	Interpreting in Health Care II	6
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HLTOC 213	Interpreting in Health Care III	.5
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HLTOC 214	Occupational Work Experience in	
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	Healthcare Interpreting (1-4)	<u>2</u>
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	Total required units:	15
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## 48NA-TZ. +Selected Topics in Health Professions and Occupations

.5-9 units

See section on Selected Topics. 1299.00

## 201. +Medical Terminology I

2 units, 2 hours lecture

Study of basic structure of medical words, including prefixes, suffixes, word roots, combining forms, plurals and abbreviations, pronunciation, spelling, and definition of medical terms. 1299.00

## 210. +Survey of Healthcare Interpreting

.5 units, .5 hours lecture

Course provides an opportunity for students to become familiar with the requirements for the healthcare interpreter certificate: Focus on details regarding application, admission requirements, and language fluency. 2140.00

**211. +Interpreting in Health Care I***6 units, 6 hours lecture**Prerequisite: Hltoc 210*

Training for bilingual individuals to develop awareness, knowledge, and skills necessary for effective language interpretation in healthcare settings: Emphasis on the roles and responsibilities of a healthcare interpreter, basic knowledge of common medical conditions, treatment and procedures, and insight into language and cultural nuances for specific communities necessary in the art of interpretation. 2140.00

**212. +Interpreting in Health Care II***6 units, 6 hours lecture**Prerequisite: Hltoc 211*

Training for bilingual individuals to be an integral member of the healthcare team in bridging the language and cultural gap between clients and providers: Further enhancement of interpreting skills learned in Interpreting in Health Care I, covering specialized healthcare service areas such as genetics, mental health, and death and dying. Emphasis also on the development of cultural competency in the community and workplace, and careers in interpretation. 2140.00

**213. +Interpreting in Health Care III***.5 units, .5 hours lecture**Prerequisite: Hltoc 211**Corequisite: Hltoc 214*

Professional behavior and situational management for the healthcare interpreter; accompanies the fieldwork class, Hltoc 214. 2140.00

**214. +Occupational Work Experience in Healthcare Interpreting***1-4 units, hours to be arranged**Corequisite: Hltoc 213**Course study under this section may be repeated one time.*

Training of interpreters to facilitate linguistic and cultural communication between clients and healthcare providers: Fieldwork experience in application of knowledge and technical interpreting skills learned in Hltoc 211, 212 and 213. 175 hours of verified, supervised field experience in healthcare settings is required. 2140.00

**248NA-TZ. +Selected Topics in Health Professions and Occupations***.5-9 units*

See section on Selected Topics. 1299.00

**250. ++Fluid and Electrolyte Workshop***.5 units, .5 hours lecture*

Academic and clinical approach to fluid and electrolytes and the application to nursing care; interactive discussions involving seminar, computer-assisted instruction and case study. 1299.00

**348NA-TZ. +Selected Topics in Health Professions and Occupations***.5-9 units**Non-degree applicable.*

See section on Selected Topics. 1299.00

# HEALTH SCIENCES

The AS degree in Health Sciences will be awarded upon satisfactory completion of the Major course requirements and the General Education requirements.

**Degree Major Requirements:**

Completion of at least one course from each of the following four groups, for a minimum of 18 units:

- Group A:**
  - Biol 1A    General Biology (5)
  - or
  - Biol 3     Microbiology (5)
  - or
  - Biol 10    Introduction to Biology (4)
- Group B:**
  - Biol 2     Human Anatomy (5)
  - or
  - Biol 4     Human Physiology (5)
  - or
  - Biol 20A   Human Anatomy and Physiology (5)
  - or
  - Biol 20B   Human Anatomy and Physiology (5)
  - or
  - Biol 24    Basic Human Anatomy and Physiology (4)
- Group C:**
  - Chem 1A    General Chemistry (5)
  - or
  - Chem 12A   Organic Chemistry (5)
  - or
  - Chem 30A   Introductory Inorganic Chemistry (4)
- Group D:**
  - Hlted 1    Exploring Health Issues (3)
  - or
  - Nutr 10<sup>1</sup>   Nutrition (formerly Facs 10) (4)
  - or
  - Nutr 12    Medical Nutrition (formerly Facs 12) (3)    18
  - Total required units:                            18

<sup>1</sup>Nutr 10 is the same as Biol 31 at Alameda and Biol 28 at Laney; maximum credit: one course.

# HISTORY

(HIST)

## 2A-2B. +History of European Civilization

3-3 units, 3 hours lecture

*Hist 2A is not prerequisite to Hist 2B*

*Acceptable for credit: CSU, UC*

[*Hist 2A: CAN Hist 2*], [*Hist 2B: CAN Hist 4*]

[*Hist 2A+Hist 2B: CAN Hist Seq A*]

**2A:** Western civilization: Prehistoric, Ancient, Medieval and Renaissance period to 1660.

**2B:** Rise of nations, revolutionary eras, European expansion and decline; Europe and its impact on the world; emphasis on ideas and institutions rather than national histories. 2205.00  
AA/AS area 2; CSU area C2, D; IGETC area 3, 4

## 7A. +History of the United States to 1877

3 units, 3 hours lecture

*Acceptable for credit: CSU, UC*

[*CAN Hist 8*]

[*Hist 7A+Hist 7B: CAN Hist Seq B*]

Survey and interpretation of political, social, and economic factors contributing to the growth of the nation from colonial days to Reconstruction (1877). 2205.00

AA/AS area 2; CSU area C2, D; IGETC area 3, 4; CSU American Institutions, Group 1

## 7B. +History of the United States Since 1865

3 units, 3 hours lecture

*Hist 7A is not prerequisite to Hist 7B*

*Acceptable for credit: CSU, UC*

[*CAN Hist 10*]

[*Hist 7A+Hist 7B: CAN Hist Seq B*]

Survey and interpretation of political, social, and economic factors contributing to the growth of the nation from the end of the Civil War to the present. 2205.00

AA/AS area 2; CSU area C2, D; IGETC area 3, 4; CSU American Institutions, Group 1

## 8A-8B. +History of Latin-American Civilization

3-3 units, 3 hours lecture

*Hist 8A is not prerequisite to Hist 8B*

*Acceptable for credit: CSU, UC*

**8A:** Latin America from pre-Columbian times to the outbreak of the wars for independence: The formative period and impact of Spanish civilization upon native societies.

**8B:** 19th and 20th centuries: Changing patterns of political, social, and cultural life in Latin America. 2205.00

AA/AS area 2; CSU area C2, D

## 14. +San Francisco Bay Area from Discovery to Present

3 units, 3 hours lecture

*Acceptable for credit: CSU, UC*

History of San Francisco Bay Area: Social, economic, environmental, political, and cultural factors which have influenced the development of this region. 2205.00

AA/AS area 2; CSU area C2, D; IGETC area 3, 4

## 15. Twentieth Century America

3 units, 3 hours lecture

*Acceptable for credit: CSU, UC*

*Not open for credit to students who have completed or are enrolled in History 7B.*

This century's history of the people of the United States and their society: The principle historical, literary, artistic, political, economic, and social developments since 1898. 2205.00

AA/AS area 2; CSU area C2, D, IGETC area 3, 4; CSU American Institutions, Group 1

## 19. +History of California

3 units, 3 hours lecture

*Acceptable for credit: CSU, UC*

California's multi-ethnic history from the pre-Spanish California period to the present: Emphasis on the social and ethnic diversity of past and present California. 2205.00

AA/AS area 2; CSU area C2, D; IGETC area 3, 4

## 27. +The Age of World War II

3 units, 3 hours lecture

*Acceptable for credit: CSU, UC*

Causes, events, and consequences of the Second World War: Pre-war breakdown in international relations and the role of the United States in the conflict. 2205.00

AA/AS area 2; CSU area C2, D; IGETC area 3, 4

## 30A-30B. +History of England

3-3 units, 3 hours lecture

*Hist 30A is not prerequisite to Hist 30B*

*Acceptable for credit: CSU, UC*

**30A:** England and the British Isles from earliest recorded times to the 17th century: Political, social, and cultural institutions and their development relating to England and to the early United States.

**30B:** England and the Commonwealth Empire since 1603: Emergence of British democratic institutions and the dissemination of these institutions, cultural and political, to the New World and the Commonwealth. 2205.00

AA/AS area 2; CSU area C2, D; IGETC area 3, 4

**32. +The United States Since 1945**

*3 units, 3 hours lecture*

*Acceptable for credit: CSU, UC*

Recent history of the United States: Social and political developments and the changing role of the United States in modern world relations. 2205.00

AA/AS area 2; CSU area C2, D; IGETC area 3, 4

**48NA-TZ. +Selected Topics in History**

*.5-5 units*

See section on Selected Topics. 2205.00

**49. +Independent Study in History**

*.5-5 units*

*Course study under this section may be repeated three times.*

See section on Independent Study. 2205.00

**248NA-TZ. +Selected Topics in History**

*.5-5 units*

See section on Selected Topics. 2205.00

**HUMANITIES**

**(HUMAN)**

The **AA degree in Humanities** 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 Humanities (Area 3 of the General Education Course List):

AFRAM: 21, 22A, 22B, 22C, 22D, 25, 27, 28<sup>1</sup>, 41, 42, 43, 45

ANTHR: 7, 8

ART: 1, 2, 3, 4, 9, 10, 11, 12, 15

ASAME: 1, 30

CHIN: 1, 2

ENGL: 1B, 10A, 10B, 17A, 17B, 26, 30A, 30B, 32A, 32B, 38, 40, 43, 44A, 44B, 46A, 46B, 210A, 210B, 217A, 217B, 230A, 230B, 232A, 232B, 243, 244A, 244B

FREN: 1A

HUMAN: 2

M/LAT: 28<sup>1</sup>, 30A, 30B

MUSIC: 1A, 9, 10, 11, 13A, 13B

PHIL: 1, 2, 10

SPAN: 1A, 1B, 2A, 2B, 22A, 22B, 30A, 30B, 31A, 31B, 38, 40

SWAHI: 1A, 1B 18

Total required units: 18

<sup>1</sup>Afram 28 is the same as M/Lat 28; maximum credit: one course.

**2. +Human Values**

*3 units, 3 hours lecture*

*Acceptable for credit: CSU, UC*

Study of human values: The individual in relation to the environment as it affects conduct among diverse cultures, past and present. 4903.00

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

**48NA-TZ. +Selected Topics in Humanities**

*.5-5 units*

See section on Selected Topics. 4903.00

**49. +Independent Study in Humanities**

*.5-5 units*

*Course study under this section may be repeated three times.*

See section on Independent Study. 4903.00

**248NA-TZ. +Selected Topics in Humanities**

*.5-5 units*

See section on Selected Topics. 4903.00

**HUMAN SERVICES**

**(HUSV)**

The Human Services program serves those who wish to train for a career in the Human Services field, those who are currently employed in the field, and those who seek training for career advancement. The program introduces the student to lifespan human care issues to include theory and practice for services from infant to elder care populations identified in need of specific, trained interventions. The historical, legal, and ethical issues of human services are covered, as well as characteristics of special conditions and disabilities that affect infants, children, adults and elders and the agencies and institutions that provide services to these groups. The program covers current practices in the human services field and trains the student in a wide range of competencies required to work in the field to include an introduction to counseling and intervention skills and case management, and how to serve a multi-ethnic, culturally-diverse client population. A **Certificate of Achievement in Human Services** will be awarded upon satisfactory completion of the following course requirements.

**Certificate of Achievement Requirements:**

HUSV 50	Introduction to Human Services	3
HUSV 51	Introduction to Counseling Skills for Paraprofessionals	3
HUSV 52	Introduction to Case Management for Paraprofessionals	3
HUSV 53	Diversity In Human Services	3
HUSV 58	Seminar in Human Services	1
HUSV 59	Occupational Work Experience in Human Services (1-4)	1-4
	Total required units:	14-17

**50. +Introduction to Human Services***3 units, 3 hours lecture**Also offered as HDS 50. Not open for credit to students who have completed or are currently enrolled in HDS 50.**Acceptable for credit: CSU*

Introduction to lifespan human care issues to include theory and practice for services from infant to elder care populations identified in need of specific, trained interventions. 2104.00

**51. +Introduction to Counseling Skills for Paraprofessionals***3 units, 3 hours lecture**Acceptable for credit: CSU*

Introduction to counseling skills for paraprofessionals: Interpersonal communication and theoretical elements of the counseling process and behavior to include counselor-client relationship; criteria for counselor conduct; recognition of substance abuse, suicide and depression; vocabulary for feelings and values; collaborative problem-solving process; major theories of counseling; counseling and interview techniques; how to help clients clarify and achieve their goals; and ethnic and cultural influences affecting clients and their problems. 2104.00

**52. +Introduction to Case Management for Paraprofessionals***3 units, 3 hours lecture**Acceptable for credit: CSU*

Basic concepts and skills of case management for paraprofessionals: Assessment, financial concerns, planning and linkage with community agencies, service monitoring, legal and ethical considerations, consultation and referral strategies, careers in case management, and personal characteristics of professional case managers. 2104.00

**53. +Diversity in Human Services***3 units, 3 hours lecture**Acceptable for credit: CSU*

Study of the values, problems, issues and specific needs of diverse groups for the human services paraprofessional: Issues of aging, gender roles, ethnicity, socio-economic status, disability, and sexual orientation; and insight, knowledge and skills necessary to work within the human services field. 2104.00

AA/AS area 2; CSU area D, E

**58. +Seminar in Human Services***1 unit, 1 hour lecture**Prerequisite: Husv 50, and Husv 51 or (Coser 43B)**Corequisite: Husv 59**Acceptable for credit: CSU**Course study under this section may be repeated one time.*

Study of the specific competencies required of the human services worker in an agency or community setting: Assessment, development, practicum, and evaluation of individual skills in counseling, case management, working with diverse populations, and providing services in a wide range of human services settings. 2104.00

**59. +Occupational Work Experience in Human Services***1-4 units, hours to be arranged**Corequisite: Husv 58**Course study under this section may be repeated one time.*

Designed to relate classroom learning to the actual job environment: Supervised field experience in a human services agency or community setting. 2104.00

# LANDSCAPE HORTICULTURE

## (LANHT)

The horticulture facility at Merritt College is one of the largest in northern California. Housed on seven and one-half acres, the facility includes 5,000 square feet of greenhouses, a 5,000 square-foot lath house, drafting and floral design labs and the Emile L. Labadie Arboretum. This two-year program is designed to prepare students for employment in the field of Landscape Horticulture. One or more certificates in Landscape Horticulture will be awarded upon satisfactory completion of the requirements listed below. Certificates at the Basic, Intermediate, and Specialist/Professional levels are available. This program is designed to lead to a vocational competency-based Associate in Science degree or transfer to a four-year institution. Graduates can find employment in landscape design and construction, landscape maintenance, nurseries, and golf and sports turf-related fields. Courses are offered during both the day and evening.

The **AS degree in Landscape Horticulture** will be awarded upon satisfactory completion of the General Education requirements and the Major course requirements of one of the Level C programs. **Certificates of Completion** will be awarded for satisfactory completion of **Level C requirements**. **Certificates only** (and not the AS degree) are awarded for completion of the **Level A and Level B requirements**.

The following curriculum patterns include **revised** certificate and degree requirements for the **Landscape Design and Construction** program, effective for the Fall 2003 semester. Students who started the program prior to Fall 2003 have the option of completing the requirements under the previous plan effective Fall 2001 provided they have been continuously enrolled (see Catalog Rights).

**The Certificate of Completion and AS degree programs in Professional Turf and Landscape Management and Horticultural Therapy are new and state approval is pending.** A separate **Certificate of Achievement in Horticultural Therapy** will be awarded upon satisfactory completion of the certificate requirements, effective as of the Spring 2002 semester.

Course offerings are indicated by the following codes:

- S = Spring
- F = Fall
- SO = Spring of odd years
- SE = Spring of even years
- FO = Fall of odd years
- FE = Fall of even years

The **Certificates** available include the following:

### Level A: Basic Landscape Horticulture Certificate

### Level B: Intermediate Landscape Horticulture Certificates:

1. Intermediate Landscape Design and Construction
2. Intermediate Landscape and Parks Maintenance
3. Intermediate Nursery Management
4. Turf and Landscape Management Specialist

### Level C: Landscape Horticulture Specialist or Professional Certificates:

1. Landscape Design and Construction Specialist
2. Landscape and Parks Maintenance Specialist
3. Nursery Management Specialist
4. Turf and Landscape Management Professional

The certificate in **Basic Landscape Horticulture** is intended for those students who are limited to a one-year program. Graduates with this certificate can find employment at the basic or entry level in grounds maintenance, or as a park worker or gardener. An advanced certificate in **Landscape Design and Construction** enables students to find employment with landscape design and construction firms, as independent landscape designers, or, with state certification, as landscape contractors. Students with a certificate in **Nursery Management** can find employment in local retail and wholesale nurseries. Students have also successfully started their own specialty nurseries. Students who successfully complete the advanced certificate in **Landscape and Parks Maintenance** can find employment with city parks or other municipal departments, or with commercial landscape firms. Many students work either independently or with landscape maintenance companies. Lastly, students who successfully complete the advanced certificate in **Turf and Landscape Management Professional** can find employment in golf and sports turf-related fields. Potential careers are available with agencies such as parks and recreation departments, golf courses, landscape contractors, sports facilities, as well as in the retail and wholesale turf-related products field.

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## A. BASIC LANDSCAPE HORTICULTURE

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### Certificate Requirements:

LANHT 1	Introduction to Landscape Horticulture with Lab (Day) (F, S)	
	or	
LANHT 1E	Introduction to Landscape Horticulture (Evening) (F, S)	3
LANHT 23	Plant Terminology (F, S)	2.5
LANHT 26	Pruning (F)	0.5
<b>Select one plant ID course from the following:</b>		
LANHT 2	Plant Materials: Trees with Lab (Day) (F)	
LANHT 2E	Plant Materials: Trees (Evening) (SO)	
LANHT 3	Plant Materials: Ground Covers and Vines with Lab (Day) (S)	
LANHT 3E	Plant Materials: Ground Covers and Vines (Evening) (FO)	
LANHT 4	Plant Materials: Shrubs with Lab (Day) (F)	
LANHT 4E	Plant Materials: Shrubs (Evening) (SE)	
LANHT 5	Plant Materials: Native Plants with Lab (Day) (S)	

LANHT 5E	Plant Materials: Native Plants (Evening) (FE)	
LANHT 6	Plant Materials: Herbaceous Plants with Lab (Day) (S02, S05)	
LANHT 6E	Plant Materials: Herbaceous Plants (Evening) (F03, F06)	3

**Select one course from the following:**

LANHT 8	Turf Management with Lab (Day) (S)	
LANHT 8E	Turf Management (Evening) (SE)	
LANHT 13	Arboriculture with Lab (Day) (F)	
LANHT 13E	Arboriculture (Evening) (FO)	4

**Select one course from the following:**

LANHT 10	Insect Pests (S)	
LANHT 11	Plant Diseases and Their Control (F)	
LANHT 12	Weeds in the Urban Landscape (S)	3

**Select one course from the following:**

LANHT 16	Soil Management (F)	
LANHT 19	Plant Nutrition (S)	3
<b>Level A total required units:</b>		<b>19</b>

## B1. INTERMEDIATE LANDSCAPE DESIGN AND CONSTRUCTION

**Certificate Requirements:****Level A Requirements:**

LANHT 1	Introduction to Landscape Horticulture with Lab (Day) (F, S)	
	or	
LANHT 1E	Introduction to Landscape Horticulture (Evening) (F, S)	3
LANHT 23	Plant Terminology (F, S)	2.5

**Select one plant ID course from the following:**

LANHT 2 or 2E or 3 or 3E or 4 or 4E or 5 or 5E or 6 or 6E		3
<b>Level A required units:</b>		<b>8.5</b>

**Plus Level B1 Requirements:**

LANHT 14	Landscape Construction with Lab (Day) (F)	
	or	
LANHT 14E	Landscape Construction (Evening) (FO)	4
LANHT 18A	Landscape Design (F)	3
LANHT 18B	Landscape Design (S)	3
LANHT 22A	Landscape Design Laboratory (F) (.5-1)	1
LANHT 22B	Landscape Design Laboratory (S) (.5-1)	1
LANHT 29	Planting Design (F)	4

**One additional plant ID course from the following:**

LANHT 2 or 2E or 3 or 3E or 4 or 4E or 5 or 5E or 6 or 6E		3*
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**Select courses from the following for a minimum of three units:**

LANHT 8	Turf Management with Lab (Day) (S) (4)	
	or	
LANHT 8E	Turf Management (Evening) (SE) (4)	
LANHT 13	Arboriculture with Lab (Day) (F) (4)	
	or	
LANHT 13E	Arboriculture (Evening) (FO) (4)	
LANHT 30	Practical Applications of Landscape Design (F) (3)	
LANHT 31	Site Operations for Landscape Designers and Builders (S) (4)	
LANHT 32	Designing with Native Plants (F) (3)	
LANHT 33A-B	Design Evaluation of Bay Area Landscapes (S) (3-3)	

LANHT 34	Computer-Assisted Landscape Design (F) (2)	
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LANHT 35	Advanced Landscape Design (S) (5)	3
<b>Level B1 additional required units:</b>		<b>22</b>
<b>Level B1 total required units:</b>		<b>30.5</b>

\*Select a course not previously taken.

## C1. LANDSCAPE DESIGN AND CONSTRUCTION SPECIALIST

**Degree Major/Certificate Requirements:**

<b>Level A Requirements:</b>	<b>8.5</b>
<b>Plus Level B1 Additional Requirements:</b>	<b>22</b>
<b>Level B1 total required units:</b>	<b>30.5</b>

**Plus Level C1 Requirements:**

LANHT 17	Irrigation with Lab (Day) (S)	
	or	
LANHT 17E	Irrigation (Evening) (SE)	4

**One additional plant ID course from the following:**

LANHT 2 or 2E or 3 or 3E or 4 or 4E or 5 or 5E or 6 or 6E		3*
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**Select courses from the following for a minimum of six units:**

LANHT 8	Turf Management with Lab (Day) (S) (4)	
	or	
LANHT 8E	Turf Management (Evening) (SE) (4)	
LANHT 13	Arboriculture with Lab (Day) (F) (4)	
	or	
LANHT 13E	Arboriculture (Evening) (FO) (4)	
LANHT 30	Practical Applications of Landscape Design (F) (3)	
LANHT 31	Site Operations for Landscape Designers and Builders (S) (4)	
LANHT 32	Designing with Native Plants (F) (3)	
LANHT 33A-B	Design Evaluation of Bay Area Landscapes (S) (3-3)	
LANHT 34	Computer-Assisted Landscape Design (F) (2)	
LANHT 35	Advanced Landscape Design (S) (5)	6
<b>Level C1 additional required units:</b>		<b>13</b>
<b>Level C1 total required units</b>		<b>43.5</b>

\*\* Select a course not previously taken.

## B2. INTERMEDIATE LANDSCAPE AND PARKS MAINTENANCE

**Certificate Requirements:****Level A Requirements:**

LANHT 1	Introduction to Landscape Horticulture with Lab (Day) (F, S)	
	or	
LANHT 1E	Introduction to Landscape Horticulture (Evening) (F, S)	3
LANHT 23	Plant Terminology (F, S)	2.5
LANHT 26	Pruning (F)	0.5

**Select one plant ID course from the following:**

LANHT 2 or 2E or 3 or 3E or 4 or 4E or 5 or 5E or 6 or 6E 3

**Select one course from the following:**

LANHT 8 Turf Management with Lab (Day) (S)  
 LANHT 8E Turf Management (Evening) (SE)  
 LANHT 13 Arboriculture with Lab (Day) (F)  
 LANHT 13E Arboriculture (Evening) (FO) 4

**Select one course from the following:**

LANHT 10 Insect Pests (S)  
 LANHT 11 Plant Diseases and Their Control (F)  
 LANHT 12 Weeds in the Urban Landscape (S) 3

**Level A required units:** 16**Plus Level B2 Requirements:**

LANHT 201 Landscape Maintenance Practices 3

**One additional plant ID course from the following:**

LANHT 2 or 2E or 3 or 3E or 4 or 4E or 5 or 5E or 6 or 6E 3\*\*

**One additional course from the following:**

LANHT 8 Turf Management with Lab (Day) (S)  
 LANHT 8E Turf Management (Evening) (SE)  
 LANHT 13 Arboriculture with Lab (Day) (F)  
 LANHT 13E Arboriculture (Evening) (FO) 4\*\*

**One additional course from the following:**

LANHT 10 Insect Pests (S)  
 LANHT 11 Plant Diseases and Their Control (F)  
 LANHT 12 Weeds in the Urban Landscape (S) 3\*\*

**One additional course from the following:**

LANHT 16 Soil Management (F)  
 LANHT 19 Plant Nutrition (S) 3\*\*

**Level B2 additional required units:** 16**Level B2 total required units:** 32

\*\*Select a course not previously taken.

## C2. LANDSCAPE AND PARKS MAINTENANCE SPECIALIST

**Degree Major/Certificate Requirements:****Level A Requirements:** 16**Plus Level B2 Additional Requirements:** 16**Level B2 total required units:** 32**Plus Level C2 Requirements:**LANHT 21 Horticultural Equipment Operation/  
Maintenance/Repair 2**One additional plant ID course from the following:**

LANHT 2 or 2E or 3 or 3E or 4 or 4E or 5 or 5E or 6 or 6E 3\*\*

**One additional course from the following:**

LANHT 10 Insect Pests (S)  
 and  
 LANHT 11 Plant Diseases and Their Control (F)  
 and

LANHT 12 Weeds in the Urban Landscape (S) 3\*\*

**One additional course from the following:**

LANHT 16 Soil Management (F)  
 and  
 LANHT 19 Plant Nutrition (S) 3\*\*

**Level C2 additional required units:** 11**Level C2 total required units:** 43

\*\*Select the course not previously taken.

## B3. INTERMEDIATE NURSERY MANAGEMENT

**Certificate Requirements:****Level A Requirements:**LANHT 1 Introduction to Landscape Horticulture  
with Lab (Day) (F, S)  
orLANHT 1E Introduction to Landscape Horticulture  
(Evening) (F, S) 3

LANHT 23 Plant Terminology (F, S) 2.5

LANHT 26 Pruning (F) 0.5

**Select one plant ID course from the following:**

LANHT 2 or 2E or 3 or 3E or 4 or 4E or 5 or 5E or 6 or 6E 3

**Select one course from the following:**

LANHT 10 Insect Pests (S)  
 LANHT 11 Plant Diseases and Their Control (F)  
 LANHT 12 Weeds in the Urban Landscape (S) 3

**Select one course from the following:**

LANHT 16 Soil Management (F)  
 LANHT 19 Plant Nutrition (S) 3

**Level A required units:** 15**Plus Level B3 Requirements:**

LANHT 24 Plant Propagation (S) 3

LANHT 25 Nursery Management (F) 3

**One additional plant ID course from the following:**

LANHT 2 or 2E or 3 or 3E or 4 or 4E or 5 or 5E or 6 or 6E 3\*\*

**One additional course from the following:**

LANHT 10 Insect Pests (S)  
 LANHT 11 Plant Diseases and Their Control (F)  
 LANHT 12 Weeds in the Urban Landscape (S) 3\*\*

**One additional course from the following:**

LANHT 16 Soil Management (F)  
 and  
 LANHT 19 Plant Nutrition (S) 3\*\*

**Level B3 additional required units:** 15**Level B3 total required units:** 30

\*\*Select the course not previously taken.

## C3. NURSERY MANAGEMENT SPECIALIST

**Degree Major/Certificate Requirements:****Level A Requirements:** 15**Plus Level B3 Additional Requirements:** 15**Level B3 total required units:** 30**Plus Level C3 Requirements:****One additional plant ID course from the following:**

LANHT 2 or 2E or 3 or 3E or 4 or 4E or 5 or 5E or 6 or 6E 3\*\*

**One additional course from the following:**

LANHT 10 Insect Pests (S)  
 and  
 LANHT 11 Plant Diseases and Their Control (F)  
 and

LANHT 12 Weeds in the Urban Landscape (S) 3\*\*

**Electives:** 6\*\*

<b>Level C3 additional required units:</b>	<b>12</b>
<b>Level C3 total required units:</b>	<b>42</b>

\*\*Select the course(s) not previously taken.

### Recommended:

LANHT 52A-C	Advanced Plant Propagation (SE) (2-2-2)
LANHT 202A-D	Soil Management Lab (FE) (.5 each level)
LANHT 203	Greenhouse Operations and Management (F02, F04) (3)
LANHT 204	Floriculture and Crop Production (S04, S06) (2)

## B4. TURF AND LANDSCAPE MANAGEMENT SPECIALIST

### Add Certificate of Completion (Pending State Approval)

#### Certificate Requirements:

##### Level A Requirements:

LANHT 1	Introduction to Landscape Horticulture with Lab (Day) (F, S)	
	or	
LANHT 1E	Introduction to Landscape Horticulture (Evening) (F, S)	3
LANHT 23	Plant Terminology (F, S)	2.5
LANHT 8	Turf Management with Lab (Day) (S)	
	or	
LANHT 8E	Turf Management (Evening) (SE)	4
LANHT 11	Plant Diseases and Their Control (F)	
	or	
LANHT 12	Weeds in the Urban Landscape (S)	3
LANHT 16	Soil Management (F)	
	or	
LANHT 19	Plant Nutrition (S)	3

##### Select one plant ID course from the following:

LANHT 2 or 2E or 3 or 3E or 4 or 4E or 5 or 5E or 6 or 6E	<u>3</u>
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**Level A required units: 18.5**

##### Level B4 Requirements:

LANHT 11	Plant Diseases and Their Control (F)	
	or	
LANHT 12	Weeds in the Urban Landscape (S)	3*
LANHT 16	Soil Management (F)	
	or	
LANHT 19	Plant Nutrition (S)	3*
LANHT 17	Irrigation with Lab (Day) (S)	
	or	
LANHT 17E	Irrigation (Evening) (SE)	4

##### One additional plant ID course from the following:

LANHT 2 or 2E or 3 or 3E or 4 or 4E or 5 or 5E or 6 or 6E	3*
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LANHT 43	Introduction to Recreational and Sports Turf Management (S)	<u>1</u>
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**Level B4 additional required units: 14**

**Level B4 total required units: 32.5**

\*Select a course not previously taken.

## C4. TURF AND LANDSCAPE MANAGEMENT PROFESSIONAL

### Add AS Degree and Certificate of Completion (Pending State Approval)

#### Degree Major/Certificate Requirements:

<b>Level A Requirements:</b>	<b>18.5</b>
<b>Plus Level B4 Additional Requirements:</b>	<b>14</b>
<b>Level B4 total required units:</b>	<b>32.5</b>

##### Plus Level C4 Requirements:

LANHT 10	Insect Pests (S)	3
LANHT 21	Horticultural Equipment Operation, Maintenance, and Repair	2
LANHT 44	Recreational and Sports Turf Management (F)	3
BUS 10	Introduction to Business	3
CIS 205	Computer Literacy	<u>1</u>

**Level C4 additional required units: 12**

**Level C4 total required units: 44.5**

#### Recommended:

BIOL 5	Plant Biology (4)
BUS 5	Human Relations in Business (3)
	or
BUS 52	Psychology and Human Relations (3)
SPAN 30A-B	Beginning Conversational Spanish (3-3)

## HORTICULTURAL THERAPY

#### Certificate of Achievement Requirements:

LANHT 1	Introduction to Landscape Horticulture with Lab (Day) (F, S)	
	or	
LANHT 1E	Introduction to Landscape Horticulture (Evening) (F, S)	3
LANHT 24	Plant Propagation (S)	3
LANHT 70	Introduction to Horticultural Therapy (F)	3
LANHT 71	Horticultural Crafts (F or S)	1
LANHT 72	Adaptive Horticulture (S)	2
LANHT 73	Horticulture for Special Populations (S)	3
LANHT 74	Therapeutic Landscape Design (F or S) (2)	
	or	
LANHT 75	Occupational Work Experience in Horticultural Therapy (S, I, M)(1-4)	<u>1-2</u>
	Total required units:	16-17

#### Recommended:

LANHT 18A	Landscape Design (F) (3)
LANHT 23	Plant Terminology (F, S) (2.5)
LANHT 220	The Edible Landscape (F or S) (2)
	Any related course in Herbs, Psychology, Sociology, Nursing, Occupational Therapy, Recreational Therapy, etc.

## Add AS Degree and Certificate of Completion (Pending State Approval)

This program provides a comprehensive study of the field of **Horticultural Therapy** and includes a balance of horticultural knowledge, understanding of the different special populations served by the field of horticultural therapy, and the learning of therapeutic and adaptive techniques that meet the needs of special populations. Graduates can find employment as horticultural, recreational, or occupational therapists at day and residential programs for clients with physical, developmental and mental disabilities; activities director at seniors, independent living, or skilled nursing facilities; community or vocational garden teacher at schools, correctional facilities, and programs for homeless and substance abusers; and in therapeutic landscape design. Occupational competencies include adaptive gardening techniques and program development, implementation, assessment, and evaluation. The program also prepares students to transfer to a four-year institution specializing in Horticultural Therapy.

The **AS degree in Landscape Horticulture with a specialization in Horticultural Therapy** will be awarded upon satisfactory completion of the General Education requirements and the Major course requirements. A **Certificate of Completion** will be awarded for satisfactory completion of all Major course requirements. **State approval for this program is pending.**

### Degree Major/Certificate Requirements:

LANHT 1	Introduction to Landscape Horticulture with Lab (Day) (F, S) (3)	
	or	
LANHT 1E	Introduction to Landscape Horticulture (Evening) (F, S) (3)	3
LANHT 23	Plant Terminology (F, S)	2.5
LANHT 24	Plant Propagation (S)	3
LANHT 70	Introduction to Horticultural Therapy (F)	3
LANHT 71	Horticultural Crafts (F or S)	1
LANHT 72	Adaptive Horticulture (S)	2
LANHT 73	Horticulture for Special Populations (S)	3
LANHT 74	Therapeutic Landscape Design (F or S)	2
LANHT 75	Occupational Work Experience in Horticultural Therapy (S, I, M)	1-4
	Total required units:	20.5–23.5

### Recommended:

COSER 43A	Introduction to Counseling Skills for Paraprofessionals I (3)
LANHT 220	The Edible Landscape (F or S) (2)
PSYCH 1A	Introduction to General Psychology (3)
RECSE 50	Introduction to Recreation and Leisure Services (3)

## 1. +Introduction to Landscape Horticulture with Lab (Day)

*3 units, 2 hours lecture, 3 hours laboratory*

*Not open for credit to students who have completed or are currently enrolled in Lanht 1E.*

*Acceptable for credit: CSU, UC*

Principles and practices of basic landscape horticulture: Brief history of horticulture, landscape planting and transplanting, soils, soil water, water quality, watering, overview of structure of higher plants, plant metabolism, vegetative/reproductive growth and development, plant propagation, hormones and plant growth, climate, light and plant growth, fertilizers and mineral nutrition; brief review of organic gardening, biological competitors of useful plants, gardening maintenance and long-term care options, branches of horticulture, and job opportunities. The lab includes planting, garden renovation, classroom demonstrations, and field trips to prominent Bay Area landscapes. 0109.00

AA/AS area 1

## 1E. +Introduction to Landscape Horticulture (Evening)

*3 units, 3 hours lecture*

*Not open for credit to students who have completed or are currently enrolled in Lanht 1.*

*Acceptable for credit: CSU, UC*

Principles and practices of basic landscape horticulture: Brief history of horticulture, landscape planting and transplanting, soils, soil water, water quality, watering, overview of structure of higher plants, plant metabolism, vegetative/reproductive growth and development, plant propagation, hormones and plant growth, climate, light and plant growth, fertilizers and mineral nutrition; brief review of organic gardening, biological competitors of useful plants, gardening maintenance and long-term care options, branches of horticulture, and job opportunities. Slide presentations substituted for lab. 0109.00

## 2. +Plant Materials: Trees with Lab (Day)

*3 units, 2 hours lecture, 3 hours laboratory*

*Recommended preparation: Lanht 1 or 1E, and 23*

*Not open for credit to students who have completed or are currently enrolled in Lanht 2E.*

*Acceptable for credit: CSU, UC*

Identification and culture of trees used in the landscape (emphasis on Bay Area): Climate, soil, and water preferences, garden culture; pest and disease problems; and pruning and propagation. The lab includes planting, garden renovation, classroom demonstrations, and field trips to prominent Bay Area landscapes. 0109.00

**2E. +Plant Materials: Trees (Evening)***3 units, 3 hours lecture**Recommended preparation: Lanht 1 or 1E, and 23**Not open for credit to students who have completed or are currently enrolled in Lanht 2.**Acceptable for credit: CSU, UC*

Identification and culture of trees used in the landscape (emphasis on Bay Area): Climate, soil, and water preferences, garden culture; pest and disease problems; and pruning and propagation. Slide presentations substituted for lab. 0109.00

**3. +Plant Materials: Ground Covers and Vines with Lab (Day)***3 units, 2 hours lecture, 3 hours laboratory**Recommended preparation: Lanht 1 or 1E, and 23**Not open for credit to students who have completed or are currently enrolled in Lanht 3E.**Acceptable for credit: CSU, UC*

Identification and culture of ground covers and vines used in the landscape: Vegetative, flower, and fruit characteristics; climates tolerated; pest and disease problems; and pruning and propagation. The lab includes planting, garden renovation, classroom demonstrations, and field trips to prominent Bay Area landscapes. 0109.00

**3E. +Plant Materials: Ground Covers and Vines (Evening)***3 units, 3 hours lecture**Recommended preparation: Lanht 1 or 1E, and 23**Not open for credit to students who have completed or are currently enrolled in Lanht 3.**Acceptable for credit: CSU, UC*

Identification and culture of ground covers and vines used in the landscape: Vegetative, flower, and fruit characteristics; climates tolerated; pest and disease problems; and pruning and propagation. Slide presentations substituted for lab. 0109.00

**4. +Plant Materials: Shrubs with Lab (Day)***3 units, 2 hours lecture, 3 hours laboratory**Recommended preparation: Lanht 1 or 1E, and 23**Not open for credit to students who have completed or are currently enrolled in Lanht 4E.**Acceptable for credit: CSU, UC*

Identification and culture of shrubs used in Bay Area landscapes: Climate, soil, and water preferences; garden culture; pest and disease problems; and pruning and propagation. The lab includes planting, garden renovation, classroom demonstrations, and field trips to prominent Bay Area landscapes. 0109.00

**4E. +Plant Materials: Shrubs (Evening)***3 units, 3 hours lecture**Recommended preparation: Lanht 1 or 1E, and 23**Not open for credit to students who have completed or are currently enrolled in Lanht 4.**Acceptable for credit: CSU, UC*

Identification and culture of shrubs used in Bay Area landscapes: Climate, soil, and water preferences; garden culture; pest and disease problems; and pruning and propagation. Slide presentations substituted for lab. 0109.00

**5. +Plant Materials: Native Plants with Lab (Day)***3 units, 2 hours lecture, 3 hours laboratory**Recommended preparation: Lanht 1 or 1E, and 23**Not open for credit to students who have completed or are currently enrolled in Lanht 5E.**Acceptable for credit: CSU, UC*

Identification and culture of native plants used in the landscape: Climate, soil, and water preferences; garden culture; pest and disease problems; and pruning and propagation. The lab includes planting, garden renovation, classroom demonstrations, and field trips to prominent Bay Area landscapes. 0109.00

**5E. +Plant Materials: Native Plants (Evening)***3 units, 3 hours lecture**Recommended preparation: Lanht 1 or 1E, and 23**Not open for credit to students who have completed or are currently enrolled in Lanht 5.**Acceptable for credit: CSU, UC*

Identification and culture of native plants used in the landscape: Climate, soil, and water preferences; garden culture; pest and disease problems; and pruning and propagation. Slide presentations substituted for lab. 0109.00

**6. +Plant Materials: Herbaceous Plants with Lab (Day)***3 units, 2 hours lecture, 3 hours laboratory**Recommended preparation: Lanht 1 or 1E, and 23**Not open for credit to students who have completed or are currently enrolled in Lanht 6E.**Acceptable for credit: CSU, UC*

Identification and culture of annuals, biennials and herbaceous plants: Design and maintenance of flower borders and beds for seasonal color in the landscape. The lab includes planting, garden renovation, classroom demonstrations, and field trips to prominent Bay Area landscapes. 0109.00

## **6E. +Plant Materials: Herbaceous Plants (Evening)**

*3 units, 3 hours lecture*

*Recommended preparation: Lanht 1 or 1E, and 23*

*Not open for credit to students who have completed or are currently enrolled in Lanht 6.*

*Acceptable for credit: CSU, UC*

Identification and culture of annuals, biennials and herbaceous plants: Design and maintenance of flower borders and beds for seasonal color in the landscape. Slide presentations substituted for lab. 0109.00

## **8. +Turf Management with Lab (Day)**

*4 units, 3 hours lecture, 3 hours laboratory*

*Recommended preparation: Lanht 1 or 1E, and 23*

*Not open for credit to students who have completed or are currently enrolled in Lanht 8E.*

*Acceptable for credit: CSU*

Identification of turf plants, their role in the landscape, and turf management: Plant selection, establishment and maintenance; identification of common problems and their treatments. The lab includes turf establishment, turf renovation, turf equipment, and field trips to locations using turf such as golf courses, athletic fields and sports complexes. 0109.40

## **8E. +Turf Management (Evening)**

*4 units, 4 hours lecture*

*Recommended preparation: Lanht 1 or 1E, and 23*

*Not open for credit to students who have completed or are currently enrolled in Lanht 8.*

*Acceptable for credit: CSU*

Identification of turf plants, their role in the landscape, and turf management: Plant selection, establishment and maintenance; identification of common problems and their treatments. Slide presentations and field lectures substituted for lab. 0109.40

## **10. +Insect Pests**

*3 units, 2.5 hours lecture, 1.5 hours laboratory*

*Recommended preparation: Lanht 1 or 1E*

*Acceptable for credit: CSU*

Identification and management of local arthropod pests and beneficial populations peculiar to ornamental plants: Emphasis on non-chemical methods of control; integration of methods used, and development of approaches best suited to controlling pests. 0109.00

## **11. +Plant Diseases and Their Control**

*3 units, 3 hours lecture*

*Recommended preparation: Lanht 1 or 1E*

*Acceptable for credit: CSU*

Identification and control of diseases of landscape plants. 0109.00

## **12. +Weeds in the Urban Landscape**

*3 units, 3 hours lecture*

*Recommended preparation: Lanht 1 or 1E, and 23*

*Acceptable for credit: CSU*

Study of nature of weeds and their interactions in the environment: Emphasis on identification and characteristics of various central California weeds, including preventive, biological, and chemical methods of weed control. 0109.00

## **13. +Arboriculture with Lab (Day)**

*4 units, 3 hours lecture, 3 hours laboratory*

*Recommended preparation: Lanht 1 or 1E, and 23*

*Not open for credit to students who have completed or are currently enrolled in Lanht 13E.*

*Acceptable for credit: CSU*

Principles and practices in the management of trees and shrubs in the landscape: Planting concerns (structural and environmental), pruning and its applications, grafting and budding applications, tree-hazard management, preventive maintenance and repair, diagnosing plant problems, preserving existing plants, tree valuation and tree maintenance businesses. The lab includes pruning, staking, fruit-tree twig identification, and field trips to perform tree-hazard evaluations, tree valuations, and to diagnose tree problems. 0109.00

## **13E. +Arboriculture (Evening)**

*4 units, 4 hours lecture*

*Recommended preparation: Lanht 1 or 1E, and 23*

*Not open for credit to students who have completed or are currently enrolled in Lanht 13.*

*Acceptable for credit: CSU*

Principles and practices in the management of trees and shrubs in the landscape: Planting concerns (structural and environmental), pruning and its applications, grafting and budding applications, tree-hazard management, preventive maintenance and repair, diagnosing plant problems, preserving existing plants, tree valuation and tree maintenance businesses. Slide presentations substituted for lab. 0109.00

## **14. +Landscape Construction with Lab (Day)**

*4 units, 3 hours lecture, 3 hours laboratory*

*Recommended preparation: Lanht 1 or 1E*

*Not open for credit to students who have completed or are currently enrolled in Lanht 14E.*

*Acceptable for credit: CSU*

Principles and practices of landscape construction: Construction of fences, gates, decks, patios, walkways, retaining walls; construction tools, equipment, and hardware; concrete and masonry work; laws and regulations. The lab includes construction of the above-mentioned structures. 0109.10

**14E. +Landscape Construction (Evening)**

4 units, 4 hours lecture

*Recommended preparation: Lanht 1 or 1E*

*Not open for credit to students who have completed or are currently enrolled in Lanht 14.*

*Acceptable for credit: CSU*

Principles and practices of landscape construction: Construction of fences, gates, decks, patios, walkways, retaining walls; construction tools, equipment, and hardware; concrete and masonry work; laws and regulations. Slide presentations, tool demonstrations, site analysis and model building substituted for lab. 0109.10

**15. +Botany**

4 units, 3 hours lecture, 3 hours laboratory

*Also offered as Biol 5. Not open for credit to students who have completed or are currently enrolled in Biol 5.*

*Acceptable for credit: CSU, UC*

Introductory study of the structure, physiology, genetics, ecology and uses of plants. Laboratories emphasize microscopy, physiology experiments, and field identification.

0109.00

AA/AS area 1; CSU area B2, B3; IGETC area 5B, 5C

**16. +Soil Management**

3 units, 2.5 hours lecture, 1.5 hours laboratory

*Recommended preparation: Lanht 1 or 1E*

*Acceptable for credit: CSU, UC*

Origin of soils, rocks and minerals: Physical and chemical properties; water relations of plants and soils; soil fertility and fertilizers; organic matter; soil amendments for clay soils and for acid, alkali, and serpentine soils; and the cycling of nutrients in nature and composting. 0109.00

**17. +Irrigation with Lab (Day)**

4 units, 3 hours lecture, 3 hours laboratory

*Recommended preparation: Lanht 1 or 1E*

*Not open for credit to students who have completed or are currently enrolled in Lanht 17E.*

*Acceptable for credit: CSU*

Principles and practices of irrigation design and installation: Irrigation system components, layout, hydraulics, automatic controllers, solid-state controllers, drip irrigation and pumps. The lab includes the installation of irrigation systems.

0109.00

**17E. +Irrigation (Evening)**

4 units, 4 hours lecture

*Recommended preparation: Lanht 1 or 1E*

*Not open for credit to students who have completed or are currently enrolled in Lanht 17.*

*Acceptable for credit: CSU*

Principles and practices of irrigation design and installation: Irrigation system components, layout, hydraulics, automatic controllers, solid-state controllers, drip irrigation and pumps. Slide presentations, tool demonstrations and site analysis substituted for lab. 0109.00

**18A-18B. +Landscape Design**

3-3 units, 3 hours lecture

*Recommended preparation for Lanht 18A: Lanht 1 or 1E, and 23; and 2/2E or 3/3E or 4/4E or 5/5E or 6/6E or 8/8E*

*Prerequisite for Lanht 18B: Lanht 18A*

*Acceptable for credit: CSU, UC*

**18A:** Introduction to the principles of landscape design: Design process, site analysis, aesthetics, ethical and legal considerations.

**18B:** Graphic communication: Aesthetics and design execution of residential gardens, pocket parks, and urban courtyards, including visual ordering principles, and communication and representations. 0109.10

**19. +Plant Nutrition**

3 units, 2.5 hours lecture, 1.5 hours laboratory

*Prerequisite: Lanht 1 or 1E, and 23*

*Acceptable for credit: CSU*

Structure and functions of cells and tissues in plants: Elements and their functions; recognition of deficiency symptoms; sources of nutrients, organic and inorganic; absorption of water and minerals; translocation; photosynthesis; respiration and transpiration; nitrogen and carbon cycling; and application to composting. 0109.00

**20. +Interior Horticulture**

3 units, 3 hours lecture

*Recommended preparation: Lanht 1 or 1E, and 23*

*Acceptable for credit: CSU*

Introduction to identification and culture of interior plants: Planting, soils, environmental control, pests and diseases, and propagation. 0109.00

**21. +Horticultural Equipment Operation, Maintenance, and Repair**

2 units, 2 hours lecture, 1 hour laboratory

*Acceptable for credit: CSU*

Basic principles of small engine operation: Engine parts, scheduling maintenance, troubleshooting engine problems, performing repairs, and safety; use of tools powered by small gas engines: lawn mowers, edgers, blowers, tillers, brush cutters, lawn aerators, chainsaws, tractors, trenchers, weed eaters, and others. 0109.00

**22A-22B. +Landscape Design Laboratory**

.5-1 unit each level, 2-3 hours laboratory

*Prerequisite for Lanht 22B: Lanht 18B and 22A*

*Acceptable for credit: CSU*

**22A:** Practical experience designing and drawing landscape plans: Site analysis, preliminary landscape plans, and basic graphic and drafting technique.

**22B:** Design and production of planting plans: Detail plans, and theory and practice of graphic presentation. 0109.10

**23. +Plant Terminology***2.5 units, 2.5 hours lecture**Acceptable for credit: CSU*

Terminology used in identification of plants: Terms relating to roots, stems, leaves, flowers and fruit used in all plant identification courses and an Introduction to Landscape Horticulture. 0109.00

**24. +Plant Propagation***3 units, 2.5 hours lecture, 1.5 hours laboratory**Prerequisite: Lanht 1 or 1E, and 23**Acceptable for credit: CSU*

Survey of plant propagation: Seeds, transplants, cuttings, layering, division, and micro-propagation; and theory and practical experience producing plants from their beginnings to marketing. 0109.00

**25. +Nursery Management***3 units, 3 hours lecture**Prerequisite: Lanht 1 or 1E, and 23**Acceptable for credit: CSU*

Management of retail and wholesale nurseries in relation to sales, marketing, operation, layout, and production: Principles and practices of soil mixes, fertilization, watering, and scheduling. 0109.30

**26. +Pruning***.5 units, .5 hours lecture, .5 hours laboratory**Acceptable for credit: CSU*

Basic pruning techniques: Emphasis on pruning landscape plants; and increasing awareness and appreciation of good pruning of landscape trees, shrubs, conifers, roses, fruit and nut trees, and berries and grapes. 0109.00

**27A-D. +Botanical Drawing***Offered as Art 65A-D.***28A-28B. +Permaculture Design***3 units each level, 2 hours lecture, 3 hours laboratory**Acceptable for credit: CSU*

Strategies and techniques of basic permaculture design and application to design of livable human communities: Observation of natural patterns, gardening in urban settings, water/water recycling in the landscape, and commonalities with practices of indigenous peoples.

**28A:** Permaculture ethics and basic principles, soil and soil fertility, flood and erosion control, and synergistic plant associations.

**28B:** Design and assessment of landscapes, reducing waste and developing super efficient systems, advanced mulching techniques, and student designs. 0109.10

**29. +Planting Design***4 units, 3 hours lecture, 3 hours laboratory**Prerequisite or corequisite: Lanht 18A and 22A, and 3 or 3E, and 2 or 2E or 4 or 4E**Acceptable for credit: CSU*

Plants as landscape design elements: Ecological design criteria, functional use of plants in design, plants as spatial delineators, visual and aesthetic qualities of plants, and planting design styles. 0109.10

**30. +Practical Applications of Landscape Design***3 units, 2.5 hours lecture, 1.5 hours laboratory**Recommended preparation: Lanht 22B**Acceptable for credit: CSU*

Intermediate-level course in site planning and planting design for landscape design students: Expansion of technical skills and aesthetic abilities and the design of lab drawings through the analysis and solution of actual residential, public and commercial projects. 0109.10

**31. +Site Operations for Landscape Designers and Builders***4 units, 3 hours lecture, 3 hours laboratory**Acceptable for credit: CSU*

Site operations and procedures common to both landscape designers and builders: Site analysis techniques, layout and staking procedures, measuring techniques, operating a transit level, cost estimating, and other tasks required to adapt a design to a site. 0109.10

**32. +Designing with Native Plants***3 units, 3 hours lecture**Prerequisite: Lanht 5 or 5E**Prerequisite or corequisite: Lanht 18A and 22A**Acceptable for credit: CSU*

Comprehensive study of the use of native plants for landscape design: Residential and commercial design applications as well as plant communities and local native plant requirements. 0109.10

**33A-B. +Design Evaluation of Bay Area Landscapes***3 units each level, 2 hours lecture, 3 hours laboratory**Acceptable for credit: CSU**Course study under this section may be repeated one time.*

Investigation of selected landscapes around the San Francisco Bay area: Planting plans and visual principles; history and conditions under which they were designed; field experience, observation, and evaluation of their success. 0109.10

### **34A-34B-34C. +Computer-Assisted Landscape Design**

*2.5 units each level, 2 hours lecture, 2 hours laboratory*

*Prerequisite or corequisite: Lanht 18A and 22A*

*Acceptable for credit: CSU*

Principles and techniques of 2D and 3D computer-assisted landscape design: Layering, dimensioning, technical computations, free-hand techniques, symbol libraries, and preparation of completed designs.

**34A:** 2D drawing and editing tools; CAD organizational and calculation tools; personal symbol libraries; and section, elevation, and axonometric drawings.

**34B:** Constructing object and plant reference libraries and plant databases; layout plans and CAD perspective drawings using 2D and 3D tools.

**34C:** Constructing and editing 3D models and landforms and advanced rendering of landscape perspective and axonometric plans. 0109.10

### **35A-35B. +Advanced Landscape Design**

*4 units each level, 3 hours lecture, 3 hours laboratory*

*Prerequisite for Lanht 35A: Lanht 22B*

*Prerequisite for Lanht 35B: Lanht 22B*

*Acceptable for credit: CSU*

Principles and practices of advanced landscape design building on the principles and techniques covered in Landscape Design (Lanht 18A-18B) and Landscape Design Laboratory (Lanht 22A-22B):

**35A:** Site analysis and topographic design; grading, drainage, and erosion control; design of walls, stairs, and terraces.

**35B:** Advanced graphic and site analysis techniques; design and detailing of lighting, water features, structures; cost estimating and project planning and design. 0109.10

### **36A-36B-36C. +Natural Building**

*3 units each level, 2 hours lecture, 3 hours laboratory*

*Acceptable for credit: CSU*

Building and design techniques which use energy-efficient, local, natural, sustainable, and accessible materials with a focus on urban applications: Historical and current uses of natural building materials, hands-on experience, guest lecturers, and tours of local projects.

**36A:** Appropriate site-specific materials and construction of natural building foundations and small projects (benches, ovens, walls).

**36B:** Site assessment, design sketches, and construction of natural building roof systems and small projects (natural plasters, rammed earth).

**36C:** Independent student projects and construction of poured adobe flooring and natural building walls with plastering. 0109.10

### **37. +Advanced Identification of California Native Plants**

*2 units, 1 hour lecture, 3 hours laboratory*

*Recommended preparation: Lanht 5*

*Acceptable for credit: CSU, UC*

Advanced identification of California native plants: Native plant materials for use in new low-maintenance and environmentally appropriate gardens. 0109.00

### **38. +Native Plant Habitats**

*2 units, 2 hours lecture*

*Acceptable for credit: CSU, UC*

Principles and practices of native plant habitats: Exploration of the major plant habitats in California and examples of native plants found in those habitats; study of the major components that define a plant habitat, such as climate, soil, water, exposure, plant associations, etc.; native plants recommended for various garden situations. 0109.00

### **39. +Plant Materials Review**

*1.5 units, 1.5 hours lecture*

*Recommended preparation: Lanht 2, 3, 4 and 5*

*Acceptable for credit: CSU*

Field review of native and exotic trees, shrubs, ground-covers and vines typically used in Bay Area landscaping: Overview of recognition techniques and identification clues while studying live specimens. 0109.00

### **43. +Introduction to Recreational and Sports Turf Management**

*1 unit, 1 hour lecture*

*Acceptable for credit: CSU*

Turf design and management at golf courses, sports fields, and parks: History, evaluation and evolution of construction practices, environmental considerations in design and management, and industry trends and career opportunities. 0109.40

### **44. +Recreational and Sports Turf Management**

*3 units, 2.5 hours lecture, 1.5 hours laboratory*

*Prerequisite: Lanht 8 or 8E, and 43 or (48OF)*

*Acceptable for credit: CSU*

Advanced study of turf management techniques and specialized equipment for golf courses, sports fields, and parks: Annual budget development and preparation of agronomic schedules and personnel management strategies and administrative issues. 0109.40

### **48NA-TZ. +Selected Topics in Landscape Horticulture**

*.5-9 units*

See section on Selected Topics. 0109.00

## 49. +Independent Study in Landscape Horticulture

.5-5 units

Course study under this section may be repeated three times.  
See section on Independent Study. 0109.00

## 50. +Plant Taxonomy

3 units, 3 hours lecture

Acceptable for credit: CSU

Techniques taught to recognize and properly explain the variation of plants and to systematically organize this information: Involves the processes of cataloging, identifying, and classifying species used in horticulture, exotic and native. 0109.00

## 50L. +Plant Taxonomy Lab

1 unit, 3 hours laboratory

Recommended preparation: Lanht 50

Acceptable for credit: CSU

Practical field experience in naming, describing and classifying plants: Plant classification system used as a tool in collecting, cataloging, identifying and classifying species used in horticulture, native and naturalized; vegetation patterns and component species. 0109.00

## 51A-D. +Natural Landscape Interpretation

.5-2 units, 32-128 term hours laboratory

(.5 units, 32 term hours laboratory each module)

Open-entry/open-exit modular course: Four-day field studies trip to each different locale.

Acceptable for credit: CSU

Course study under this section may be repeated three times.

Dominant and typical plant constituents of each vegetation unit in California focusing on those species currently used in the nursery industry: Merging of habitat, soil and climatic factors with plant species to establish appropriate natural and horticultural context.

**51A:** Maritime Provinces: Outer coastal ranges, low elevation.

**51B:** Steppe Provinces: Inner coastal ranges, low-intermediate elevations, foothills.

**51C:** Continental Provinces: Warm interior, lower latitude and altitude.

**51D:** Continental Provinces: Cold interior, high latitude and altitude. 0109.00

## 52A-C. +Advanced Plant Propagation

2 units each level, 1 hour lecture, 3 hours laboratory

Prerequisite: Lanht 24

Acceptable for credit: CSU

Course study under this section may be repeated two times.

In-depth study of concepts in plant propagation: Seeds, cuttings, layering, and grafting; highlighted by field trips and guest speakers. 0109.00

## 53A-D. +Alpines Lab

2 units each level, 6 hours laboratory

Acceptable for credit: CSU

Course study under this section may be repeated three times.

Observation of nature's effect on natural rock-garden formation and application of these principles in the design and installation of local artificial rock gardens: Discussion of native and exotic alpine species, natural rock-garden environments, and plant habitat composition. 0109.10

## 70. +Introduction to Horticultural Therapy

3 units, 3 hours lecture

Exploration of the field of horticultural therapy and its use in the treatment, rehabilitation and/or training of individuals with special needs: Physical and mental benefits of gardening; programs and settings designed for specific populations, such as seniors, hospitalized patients, and special needs students; and application in nursing homes, hospitals, schools, community gardens, healing gardens and wellness communities; includes field trips. 0199.00

## 71. +Horticultural Crafts

1 unit, 1 hour lecture

Use of flowers, foliage and herbs by horticultural therapists to create specialized craft projects for special populations: Creation of crafts and adaptive craft activities to meet the special needs and capabilities of seniors, hospitalized patients, children, disabled, developmentally disabled and others. 0199.00

## 72. +Adaptive Horticulture

2 units, 1 hour lecture, 3 hours laboratory

Clinical experience working with special populations in horticultural therapy settings: Planning, implementing, and evaluating horticultural therapy sessions; use of modified tools, enabling gardens and healing gardens. 0199.00

## 73. +Horticulture for Special Populations

3 units, 3 hours lecture

Design of horticultural therapy programs for a wide range of settings and populations: Focus is on adaptive services provided to special populations, accessible gardening and grant writing. 0199.00

## 74. +Therapeutic Landscape Design

2 units, 2 hours lecture

Introduction to therapeutic landscape design: Enabling and healing gardening in a wide range of medical and senior-care facilities (hospitals, hospices, nursing homes and senior centers); garden placement and adaptive tools for the physically disabled. 0199.00

## 75. +Occupational Work Experience in Horticultural Therapy

*1-4 units, hours to be arranged*

*Prerequisite or corequisite: Lanht 70 or (48NL)*

*Course study under this section may be repeated three times.*

Occupational work experience in horticultural therapy under supervision in community settings: Therapeutic work with clients in various settings, determination of specific needs of the special client population and planning appropriate horticultural activities, use of adaptive tools, and professional behavior and ethics in the field. 0199.00

## 201. +Landscape Maintenance Practices

*3 units, 3 hours lecture*

Day-to-day aspects of maintenance gardening such as: Organizational skills, advertising, tool selection, generating business, estimating strategies, setting rates, client relations, efficiency strategies, and good maintenance habits. 0109.10

## 202A-D. +Soil Management Lab

*.5 units each level, 1.5 hours laboratory*

*Course study under this section may be repeated three times.*

Laboratory experiments based on the principles and techniques of soil management: Soil analysis, soil reports, and field tests; plant and soil relationships explored through experiments which range from simple texture tests to complex water/soil tests. 0109.00

## 203. +Greenhouse Operations and Management

*3 units, 3 hours lecture*

In-depth study of greenhouse operations and management: Construction of greenhouse structures for specific crops such as mums, cyclamen, poinsettias and azaleas; greenhouse growing media; irrigation systems; heating and cooling; and fertilization programs. 0109.20

## 204. +Floriculture, Greenhouse Production and Hydroponics

*2 units, 2 hours lecture, 1 hour laboratory*

Principles and practical application of commercial plant and flower production techniques in the greenhouse environment: Flower and greenhouse industry with emphasis on crop selection and scheduling, market cycles, greenhouse controls and media, watering, hydroponics, pest control, post-harvest handling, and marketing. 0109.20

## 205. +All About Roses

*1 unit, 1 hour lecture*

In-depth study of the growing of roses, from planting bare-root roses to blooming: Old garden varieties to the latest modern hybrids; rose selection, planting, pruning, diseases and insect control. 0109.20

## 206. +Landscape Maintenance Business Practices

*3 units, 3 hours lecture*

Business aspects of maintenance gardening: Bookkeeping, tax records, licenses, and legal matters such as contract law in preparation for the landscape contractors examination; also covers small claims court procedures. 0109.10

## 207. +Special Projects in Landscape Horticulture

*2-6 units, 1-4 hours lecture, 3-6 hours laboratory*

*Course study under this section may be repeated three times.*

Special projects in landscape horticulture: Provides hands-on experience with projects ranging from plant propagation and greenhouse operations to design, construction, irrigation, installation and maintenance of community gardens as well as California native and non-native gardens. 0109.00

## 208. +Growing and Using Herbs in the Landscape

*1 unit, 1 hour lecture*

Comprehensive study of growing and using herbs for culinary, medicinal, and ornamental use: Herb identification and usage; annual and perennial herbs; planting, caring for, and propagation of herbs; creating crafts from herbs; and designing an herb garden. 0109.00

## 220. +The Edible Landscape

*2 units, 2 hours lecture*

Study of fruits, nuts, citrus, vegetables and herbs in an edible landscape: Selecting, growing, harvesting and using these edible plants; garden design using ornamental edibles; includes field trips to organic and community gardens. 0109.00

## 248NA-TZ. +Selected Topics in Landscape Horticulture

*.5-9 units*

See section on Selected Topics. 0109.00

## 250. +Basic Gardening for Fall

*1 unit, 1 hour lecture*

*Non-degree applicable*

Basic gardening for fall: Plant identification, pruning, plant problems, fertilization, planting, transplanting, plant propagation, soils and plant nutrition, landscape construction, irrigation installation and maintenance, small engine maintenance and repair, tool handling, safety, and turfgrass maintenance with an emphasis on garden management practices. 0109.00

**251. +Basic Gardening for Spring***1 unit, 1 hour lecture**Non-degree applicable*

Basic gardening for spring: Plant identification, pruning, plant problems, fertilization, planting, transplanting, plant propagation, soils and plant nutrition, landscape construction, irrigation installation and maintenance, small engine maintenance and repair, tool handling, safety, and turfgrass maintenance with an emphasis on garden management practices. 0109.00

**252. +Basic Gardening for Summer***1 unit, 1 hour lecture**Non-degree applicable*

Basic gardening for summer: Plant identification, pruning, plant problems, fertilization, planting, transplanting, plant propagation, soils and plant nutrition, landscape construction, irrigation installation and maintenance, small engine maintenance and repair, tool handling, safety, and turfgrass maintenance with an emphasis on garden management practices. 0109.00

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

See section on Selected Topics. 0109.00

**501. ++Urban Community Garden:****Construction/Maintenance (Non-Credit)***0 units, 2-4 hours lecture, 1-2 hours laboratory**Course study under this section may be repeated as necessary.*

Urban community gardening: Benefits, skills for design and implementation, raised-bed garden techniques, garden maintenance, plant/crop selection, and community organizational skills. 0109.00

# LEARNING RESOURCES

(LRNRE)

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

See section on Selected Topics. 4930.00

**211A-B. +Computer Access***1.5-3 units, 2 hours lecture, 3 hours laboratory**(1.5 units, 1 hour lecture, 1.5 hours laboratory each module)**Open-entry/open-exit, modular course**Recommended for students with disabilities.**No prior computer experience necessary.**Formerly offered as Lrnre 271A-B.**Course study under this section may be repeated one time.*

Word processing for individuals with visual, physical, or learning disabilities: Writing essays, business letters, resumes, and reports using adaptive programs as appropriate. 4930.30  
AA/AS area 4c

**213A-B. +Improving Cognitive Skills***1-3 units each level, 2 hours lecture, 3 hours laboratory**Open-entry/open-exit course**Recommended for students with acquired brain injuries and/or learning disabilities.**Formerly offered as Lrnre 270A-B.**Course study under this section may be repeated one time.*

Computer-assisted instruction designed for individuals with learning disabilities or acquired brain injuries utilizing material appropriate for all learners: How to improve learning skills by analyzing how learning takes place and investigating individual learning styles.

**213A:** Focuses on cognitive skills such as attention, memory, sequencing, and pattern identification; investigation of brain-based learning theory.

**213B:** Focuses on logical reasoning and strategies for critical thinking, problem solving and information management. Internet utilized in applying these skills with emphasis on application of new skills in school and job-based environments. 4930.32

**214. ++Adaptive Technology for Web Page Design***1 unit, 1 hour lecture, 1 hour laboratory**Recommended for students with physical and developmental disabilities; adaptive equipment available.*

Utilization of Microsoft FrontPage: Development of simple web and intermediate websites using adaptive technology, how to obtain free web space to upload the website, and how to market a website and list it with search engines. 4930.30

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

See section on Selected Topics. 4930.00

**251A-D. +Peer Supportive Services***1 unit each level, 1 hour lecture**Non-degree applicable**Course study under this section may be repeated three times.*

Designed to acquaint the peer advisor with the rudiments of counseling information and techniques. 4930.10

**272A-B. +Computer Access Projects***.5-2 units each level, 2-6 hours laboratory**Recommended for students with disabilities.**Students who have completed Computer Access, and who need to use adaptive computer equipment, can enroll in Computer Access Projects to prepare papers for mainstream classes.**Non-degree applicable**Course study under this section may be repeated one time.*

Designed for students who require access to specialized adaptive computer technologies in order to complete assignments for other classes in which they are enrolled, including Computer Access: Improvement of basic writing/editing skills through computer-aided instruction. 4930.30

**275. ++Basic Skills: Computer-Assisted Instruction***.5-3 units, 1.5-9 hours laboratory**Recommended for students with learning disabilities.**Non-degree applicable*

Computer-based instruction in the following skill areas: Reading (comprehension, vocabulary, word knowledge); language (grammar, spelling, punctuation); mathematics (computation, concepts, word problems); and writing (mechanics, word usage, sentences, paragraphs). Uses the "Skills Bank" computer program or the equivalent. 4930.30

**280A-C. ++Study Skills***.5-3 units each level, 0-3 hours lecture, 0-9 hours laboratory**Non-degree applicable**Course study under this section may be repeated two times.*

Systematic approach to understanding principles of learning for all academic disciplines: Effective study techniques to give confidence in coping with the college environment; psychological awareness and self-esteem. 4930.14

**295A-C. +Diagnostic Learning***1-3 units, 1-3 hours lecture**(1 unit, 1 hour lecture each module)**Modular course**Recommended for students with learning disabilities.**Non-degree applicable**Course study under this section may be repeated two times.*

Individual assessment of learning strengths and weaknesses to determine eligibility for certification as a learning disabled adult; development of an Individualized Education Plan (IEP). **295A:** Mandated tests (Woodcock-Johnson Psychoeducational Battery, Parts I and II, and/or Wechsler Adult Intelligence Scale, Revised, together with Wide Range Achievement Test) and samples of reading, writing/spelling, mathematics, and additional tests as required.

**295B:** Diagnostically-oriented work in targeted academic skills areas.

**295C:** Diagnostically-oriented work in use of adaptive strategies and use of appropriate support services and class accommodations. 4930.32

**348NA-TZ. +Selected Topics in Learning Resources***.5-5 units**Non-degree applicable*

See section on Selected Topics 4930.00

**501. ++Supervised Tutoring (Non-Credit)***0 units, 1-15 hours laboratory**Course study under this section may be repeated as necessary.**Students may enroll for assistance in more than one college course per semester.*

Individualized tutoring designed to assist students in increasing their success in college courses. 4930.09

# LIBERAL ARTS

The **AA Degree in Liberal Arts** will be awarded upon satisfactory completion of the Major course requirements and the General Education requirements. Since the following Major courses appear on the General Education Course List, they may be used to meet both the Major and the General Education requirements, provided that the total is 37 or more units. A course may be used **one time for the major** and **one time only for the General Education requirements**, even though the course may be listed in several category areas.

**Degree Major Requirements:**

Completion of at least 6 units in each of Areas One (Natural Sciences), Two (Social and Behavioral Sciences), and Three (Humanities) of the General Education Course List, for a minimum of 18 units:

1. **Natural Sciences (Area One):** At least one course (3 units) from both Group A and Group B for a minimum of 6 units:

**Group A (Biological Sciences):**

ANTHR:	1	
BIOL:	1A, 1B, 2, 3, 4, 5 <sup>1</sup> , 9, 10, 13, 15, 20A, 20B, 23, 24, 25, 29, 36	
LANHT:	1, 15 <sup>1</sup>	
NUTR:	10 <sup>2</sup> (formerly Facs 10), 12 (formerly Facs 12)	
PSYCH:	12 <sup>3</sup>	3

<sup>1</sup>Biol 5 is the same as Lanht 15; maximum credit: one course.

<sup>2</sup>Nutr 10 is the same as Biol 31 at Alameda and Biol 28 at Laney; maximum credit: one course.

<sup>3</sup>Psych 12 is the same as Biol 27 and Psych 12 at Laney and Vista and Hltd 27 at Vista; maximum credit: one course.

**Group B (Physical Sciences):**

ASTR:	1, 10	
CHEM:	1A, 1B, 12A, 12B, 30A, 30B	
GEOG:	1, 10	
GEOL:	1, 5, 6, 10, 12	
PHYS:	2A, 2B, 4A, 4B, 4C, 10	3

2. **Social and Behavioral Sciences (Area Two):** A minimum of 6 units in courses from at least two disciplines:

AFRAM:	2, 5, 8, 10, 12, 14A, 14B, 16, 19 <sup>1</sup> , 25, 27, 28 <sup>2</sup> , 30, 31, 32, 33, 34, 45	
ANTHR:	2, 3, 4, 5, 7, 8, 13, 16, 18, 30A-D <sup>5</sup>	
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 <sup>3</sup> , 2, 10, 11 <sup>3</sup>	
EDUC:	1	
ENGL:	38	
ENVST:	11, 76A-D <sup>(4)(5)</sup> , 78A <sup>(4)(5)</sup> , 78B <sup>(4)(5)</sup>	
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 <sup>1</sup> , 12, 19 <sup>6</sup> , 23, 28 <sup>2</sup> , 30A, 30B	
NATAM:	76A-D <sup>(4)(5)</sup> , 78A <sup>(4)(5)</sup> , 78B <sup>(4)(5)</sup>	
POSCI:	1, 2, 3, 4, 16, 20	
PSYCH:	1A, 1B, 3, 6, 10, 12, 24, 33	
SOC:	1, 2, 3, 5	6

<sup>1</sup>Afram 19 is the same as M/Lat 6; maximum credit: one course.

<sup>2</sup>Afram 28 is the same as M/Lat 28; maximum credit: one course.

<sup>3</sup>Econ 1 and Econ 11; maximum credit: one course.

<sup>4</sup>Envst 76A-D, 78A and 78B are the same as Natam 76A-D, 78A and 78B, respectively; maximum credit: one course.

<sup>5</sup>Each course must be taken for a minimum of 3 units to satisfy Area 2 requirements.

<sup>6</sup>M/Lat 19 is the same as Hist 17 at Alameda, Laney and Vista; maximum credit: one course.

3. **Humanities (Area Three):** A minimum of 6 units in courses from at least two disciplines:

AFRAM:	21, 22A, 22B, 22C, 22D, 25, 27, 28 <sup>1</sup> , 41, 42, 43, 45	
ANTHR:	7, 8	
ART:	1, 2, 3, 4, 9, 10, 11, 12, 15	
ASAME:	1, 30	
CHIN:	1, 2	
ENGL:	1B, 10A, 10B, 17A, 17B, 26, 30A, 30B, 32A, 32B, 38, 40, 43, 44A, 44B, 46A, 46B, 210A, 210B, 217A, 217B, 230A, 230B, 232A, 232B, 243, 244A, 244B	
FREN:	1A	
HUMAN:	2	
M/LAT:	28 <sup>1</sup> , 30A, 30B	
MUSIC:	1A, 9, 10, 11, 13A, 13B	
PHIL:	1, 2, 10	
SPAN:	1A, 1B, 2A, 2B, 22A, 22B, 30A, 30B, 31A, 31B, 38, 40	
SWAHI:	1A, 1B	<u>6</u>
Total required units:		18

<sup>1</sup>Afram 28 is the same as M/Lat 28, maximum credit: one course.

# LIBRARY INFORMATION STUDIES

(LIS)

## 48NA-TZ. +Selected Topics in Library Information Studies

.5-5 units

See section on Selected Topics. 1699.00

## 85. +Introduction to Information Resources 2 units, 2 hours lecture

*Recommended preparation: Engl 201A or appropriate placement through multiple-measures assessment, and CIS 1 or 200 or 205 or Bus 219*

*Acceptable for credit: CSU, UC*

Introduction to the basic concepts and tools used in information research: Emphasis on how to develop a research topic, find, locate, evaluate, and use information; search strategies for print and online resources including reference books, catalogs, indexes, specialized databases and the Internet. 1699.00  
CSU area E

## 248NA-TZ. +Selected Topics in Library Information Studies

.5-5 units

See section on Selected Topics. 1699.00

## 348NA-TZ. +Selected Topics in Library Information Studies

.5-5 units

*Non-degree applicable*

See section on Selected Topics. 1699.00