

# HEALTH SCIENCE

College of Health and Human Services

**Department Chair:** Gail C. Farmer

**Department Office:** Health and Human Services (HHS) 2, Room 115  
Telephone: (562) 985-4057

**Faculty:** Veronica Acosta-Deprez, Niloofer Bavarian, Stephanie L. Eatmon (Emerita), Dale W. Evans (Emeritus), Gail Farmer, Mohammed R. Forouzesh, Robert H. Friis (Emeritus), Ka Wa Gorman, Sarath Gunatilake, Javier Lopez-Zetina, Charles Malotte (Emeritus), Britt K. Rios-Ellis, Selena Nguyen-Rodriguez

**Liaison, CSULB/VA Joint Studies Institute:** Gail C. Farmer

**Undergraduate Coordinator:** Victoria Bisorca

**Coordinator, Single Subject Credential:** Victoria Bisorca

**Department Coordinator:** Karen Miyahara

## Career Possibilities

*Health Science:* Health Educator • Government Inspector • California Middle/High School Health Teacher • Researcher/Evaluator • Health Education Specialist • Public Health Educator • Patient Educator

(For more information, see [www.careers.csulb.edu](http://www.careers.csulb.edu).)

## Introduction

The Department offers undergraduate and graduate study in Health Education. For program information, students should review the information found on our website <http://www.csulb.edu/colleges/chhs/departments/health-science/>, Academic Advising and Resource Center (AARC), or the appropriate Health Science Department Coordinator.

---

## Undergraduate Programs

---

### Bachelor of Science in Health Science

The basic University requirements for graduation with a B.S. Degree in Health Science consist of:

1. completion of general education requirements,
2. completion of all courses identified on the Program Planner for the Option selected, with no grade lower than a "C" for each listed course or approved substitute,
3. completion of a minimum of 120 units, at least 40 units of which must be upper division. Upper division courses are numbered 300 to 499.

### Major Core Requirements

All Health Science majors must complete the required core. The core of the Health Science program contains five areas of competence: Statistics, Program Development, Professionalism, Health Services Organization and Health Promotion. All majors must complete at least one course from each competency area. Courses must be selected in consultation with an advisor.

### Option in Community Health Education (120 units)

The Community Health Education option is designed for persons whose occupational objective is to serve as a community health educator with an official, voluntary, or corporate health agency.

Lower Division:

Take all of the following courses:

H SC 210 Contemporary Health Issues (3)  
Prerequisite: GE Foundation requirements.

BIOL 205 Human Biology (4)  
Prerequisite: GE Foundation requirements.

or

BIOL 207 Human Physiology (4)  
Prerequisite: GE Foundation requirements

and

BIOL 208 Human Anatomy (4)  
Prerequisite: Grade of "C" or better in one of the following: ART 372, BIOL 201, BIOL 205, BIOL 207, BIOL 212, BIOL 311, CHEM 140, DANC 261, or MICR 200.

Additionally, take:

CHEM 100 Chemistry and Today's World (4) or Higher  
Prerequisite: One Foundation course

NUTR 132 Introductory Nutrition (3)  
Prerequisite/Corequisites: One Foundation course.

PSY 100 General Psychology (3)  
Prerequisite/Corequisites: Students who score 147 or above on the English Placement Test or "C" or better in one of the following AFRS 100, ASAM 100, CHLS 104, ENGL 100S or ALI 150 or ALP 150 or equivalent.

Take one of the following courses:

PSY 110 Introductory Statistics (4)  
Prerequisite: Eligible to take a General Education Mathematics course.

SOC 170 Elementary Statistics (4)  
Prerequisites: Eligible to take a General Education Mathematics course.

STAT 108 Statistics for Everyday Life (3)  
Prerequisites: None.

Upper Division:

Take all of the following courses:

H SC 301 Orientation to Health Science (3)  
Prerequisite: Open to Health Science majors and minors only.

H SC 400 Principles of Epidemiology (3)  
Prerequisite: Open to Health Care Administration and Health Science majors and minors only. Health Care Administration majors: SOC 170 or PSY 110 or STAT 108. Health Science majors: H SC 403.

H SC 401 Community Health Education (3)  
Prerequisite: HSC 301.

H SC 402 Applied Concepts of Community Health Education (3)  
Prerequisite: H SC 301, H SC 401 and H SC 421.

H SC 403 Community Health Statistics (3)  
Prerequisite: GE Math and SOC 170 or PSY 110 (PSY 100 prereq) or STAT 108.

H SC 405 Health Education Program Evaluation and Measurement (3)

Prerequisite: H SC 403 and H SC 421.

H SC 421 Health Behavior (3)

Prerequisite: Upper-division standing.

H SC 430 School Health Program (3)

Prerequisite: HSC 301.

H SC 435 Health Promotion Risk Reduction (3)

Prerequisite: HSC 421.

H SC 440 Applied Concepts of Health Science (3)

Prerequisite: HSC 430. Students must have scored 11 or higher on the GEAR Placement Examination or successfully completed the necessary portfolio course that is a prerequisite for a GEAR Writing Intensive Capstone.

H SC 485 Internship in Community Health Education (3)

Prerequisite: H SC 402 and H SC 405.

Take three courses selected from the following:

H SC 407, H SC 420, H SC 422, H SC 423, H SC 425, H SC 427

Take one course selected from the following:

PSY 351 or SOC 335

Take one course selected from the following:

SOC 320, SOC 462, SOC 464

Take one course selected from the following:

COMM 334, COMM 335

## Option in School Health Education (120 units)

The School Health Option is designed for persons who wish to become health science teachers in California middle and high schools. The program is approved by the California Commission on Teacher Credentialing and meets subject matter competence requirements for the Single Subject Teaching Credential in Health Science. Prospective students should consult the department's Health Science Single Subject Advisor early to plan their program.

### Requirements

Lower Division:

Take all of the following courses:

H SC 210 Contemporary Health Issues (3)

Prerequisite: GE Foundation requirements.

BIOL 205 Human Biology (4)

Prerequisite: GE Foundation requirements.

or

BIOL 207 Human Physiology (4)

Prerequisite: GE Foundation requirements

and

BIOL 208 Human Anatomy (4)

Prerequisite: Grade of "C" or better in one of the following: ART 372, BIOL 201, BIOL 205, BIOL 207, BIOL 212, BIOL 311, CHEM 140, DANC 261, or MICR 200.

Additionally, take:

CHEM 100 Chemistry and Today's World (4) or Higher

Prerequisite: One Foundation course

NUTR 132 Introductory Nutrition (3)

Prerequisite/Corequisites: One Foundation course.

PSY 100 General Psychology (3)

Prerequisite/Corequisites: Students who score 147 or above on the English Placement Test or "C" or better in one of the following AFRS 100, ASAM 100, CHLS 104, ENGL 100S or ALI 150 or ALP 150 or equivalent.

Take one of the following courses:

PSY 110 Introductory Statistics (4)

Prerequisite: Eligible to take a General Education

Mathematics course.

SOC 170 Elementary Statistics (4)

Prerequisites: Eligible to take a General Education Mathematics course.

STAT 108 Statistics for Everyday Life (3)

Prerequisites: None.

Upper Division:

Take one of the following:

COMM 335 Persuasive Speaking (3)

Prerequisite: GE Foundation requirements.

Approved upper-division COMM course

Take one of the following courses:

EDP 301 Child Development and Learning (3)

Prerequisite: None.

EDP 302 Early and Late Adolescent Development (3)

Prerequisite: None.

EDP 305 Educational Psychology (3)

Prerequisite: None.

Take one of the following courses:

ANTH 329; CDFS 319; HSC 420; PSY 378;

SOC 320, SOC 423

Subject Matter Courses

Take all of the following courses:

EETC 444 Computer Technology in Education, Level I (3)

Prerequisite: Course design assumes familiarity with topics introduced in EETC 110.

H SC 210 Contemporary Health Issues (3)

Prerequisite: GE Foundation requirements.

H SC 301 Orientation to Health Science (3)

Prerequisite: Open to Health Science majors and minors only.

H SC 401 Community Health Education (3)

Prerequisite: HSC 301.

H SC 403 Community Health Statistics (3)

Prerequisite: GE Math and SOC 170 or PSY 110 (PSY 100 prereq) or STAT 108.

H SC 421 Health Behavior (3)

Prerequisite: Upper-division standing.

H SC 422 Environmental Health (3)

Prerequisite: Upper-division standing.

H SC 423 Consumer Health (3)

Prerequisite: Upper-division standing.

H SC 425 Human Sexuality and Sex Education (3)

Prerequisite: GE Foundation, one or more Exploration courses, and upper-division standing. Recommended: PSY 100.

H SC 427 Drugs and Health (3)

Prerequisite: Upper-division standing.

H SC 430 School Health Program (3)

Prerequisite: HSC 301.

H SC 435 Health Promotion/Risk Reduction (3)

Prerequisite: HSC 421.

H SC 440 Applied Concepts of Health Science (3)

Prerequisite: HSC 430. Students must have scored 11 or higher on the GEAR Placement Examination or successfully completed the necessary portfolio course that is a prerequisite for a GEAR Writing Intensive Capstone.

## Single Subject Teaching Credential in Health Science

In addition to meeting the subject matter competence requirement for the Single Subject Teaching Credential in Health Science, prospective health teachers are also required to complete an additional 45 units of professional preparation in the Single Subject Credential Program, including student teaching. Students may begin the professional preparation courses as early as the junior year. With careful planning, it is possible to complete all of the credential program courses, except for student teaching as an undergraduate. Courses may also be completed as a post-baccalaureate student. Refer to the Single Subject Teacher Education section of this catalog or the Single Subject Credential Program website ([www.ced.csulb.edu/single-subject](http://www.ced.csulb.edu/single-subject)) for a description of the professional preparation requirements, courses, and application procedures.

The Health Science Subject Matter Program is being revised to meet new state standards. When the revised program has been approved by the Commission on Teacher Credentialing, the new course requirements will be in effect and supersede current requirements.

## Minor in Health Science

Twenty-four units required.

Take all the following courses:

- H SC 301 Orientation to Health Science (3)  
Prerequisite: Open to Health Science majors and minors only.
- H SC 401 Community Health Education (3)  
Prerequisite: HSC 301.
- H SC 430 School Health Program (3)  
Prerequisite: HSC 301.
- H SC 435 Health Promotion Risk Reduction (3)  
Prerequisite: HSC 421.
- H SC 440 Applied Concepts of Health Science (3)  
Prerequisite: HSC 430. Students must have scored 11 or higher on the GVAR Placement Examination or successfully completed the necessary portfolio course that is a prerequisite for a GVAR Writing Intensive Capstone.

Take three courses from the following courses:

- H SC 400, H SC 420, H SC 421, H SC 422, H SC 423, H SC 425, H SC 427.

---

## Graduate Programs

---

### Graduate Program in Health Education

Accredited by the Council on Education for Public Health (Council on Education for Public Health, 1010 Wayne Avenue, Suite 220, Silver Springs, MD 20910-5600, phone: (202) 789-1050).

In order to be admitted to the graduate program for study toward a degree, a prospective candidate must apply both to this department and the University. Contact the Director of Graduate Studies for current requirements.

The graduate student will be prepared for a leadership role in a school or community setting and for admission to doctoral programs. Admitted graduate students must contact the Director of Graduate Studies for advisement

early in their first semester of enrollment in order to develop an approved program of study.

## Master of Public Health

### Option in Community Health Education

The Master of Public Health in Community Health provides an opportunity for students: to specialize in community health education and health promotion within the general context of Public Health; to increase competence in designing, implementing, and evaluating social behavior changes programs in preparation for serving in various health agencies; prepare for teaching at college and university levels; and for administrative positions in public and private health agencies.

### Admission Requirements

Applicants must apply both to the Department and the University. Applications are available online at [www.csulb.edu/health-science](http://www.csulb.edu/health-science).

1. Each applicant must request that a copy of official transcript(s) of all work be sent to the university's Office of Enrollment Services.
2. A bachelor's degree with a major in health education, which articulates with the course requirements for the same degree at California State University, Long Beach; or a bachelor's degree in a related discipline with a minimum of 21 units of upper division course work comparable to those required of the Health Science major at the University; or a bachelor's degree in a related discipline and willingness to make up any deficiencies in prerequisite Health Science courses. Prerequisite for all courses carrying graduate credit must have been completed within seven years of acceptance to the graduate program. If any prerequisite is outdated, it must be repeated. Credit may be obtained by (1) written examination on the subject matter or (2) providing documented evidence of currency in the subject area.
3. An overall undergraduate GPA of at least 3.0. Students with less than a 3.0 GPA on the last 60 units of undergraduate units attempted, but who show promise in all other aspects, may be given special consideration after petitioning for conditional admission into the program through the Director of Graduate Studies.
4. Acceptance by the University as a student with graduate standing.
5. A maximum of 9 units of graduate work at the post-baccalaureate level may be credited to a student's program requirements upon departmental acceptance to the graduate program.
6. Submission of analytic, quantitative and verbal scores from the Graduate Record Examination (GRE) to the University.
7. Submission, through CSU Mentor, of a copy of the CSU graduate application.
8. Three letters of recommendation from persons with whom the applicant has worked and/or who have direct knowledge of the applicant's professional and academic potential as a health educator.
9. A separate personal statement of reasons for pursuing this field of study and comments about interests and

experience that are germane to career objectives. Submit a personal resume reflecting the applicant's education and relevant experience.

10. At least one year's full-time (or equivalent) paid or volunteer experience in Health Education or a closely related health field. Preference will be given to those with greater experience and ability.

### Advancement to Candidacy

1. Satisfy the general university requirements for advancement to candidacy:
  - A. Fulfill the Graduation Writing Assessment Requirement (GWAR);
  - B. Maintain at least a 3.0 average for all course work attempted as a graduate student;
  - C. Complete the following: H SC 500, H SC 503, H SC 570
2. Approval by the Director of Graduate Studies and Associate Dean for Academic Programs of the College of Health and Human Services.

### Requirements - Comprehensive Exam Option

1. A minimum of 42 units of approved upper-division and graduate-level courses including:
  - A. 39 units of core classes including:
    - HSC 500 Principles of Epidemiology (3)  
Prerequisites: HSC 403 or equivalent.
    - HCA 502 The Health Care System (3)  
Prerequisites: None
    - HSC 503 Advanced Community Health Statistics (3)  
Prerequisites: HSC 403 or equivalent.
    - HSC 508 Administrative Relationships in Health Education Programs (3)  
Prerequisites: Undergraduate major in Health Science or related field.
    - HSC 528 Advanced Environmental Health (3)  
Prerequisites: HSC 500.
    - H SC 570 Theoretical Concepts and Issues in Health Science (3)  
Prerequisites: None.
    - H SC 581 Curriculum Dev in Health Education (3)  
Prerequisites: Undergraduate major in Health Science or related field..
    - H SC 585 Health Education Internship (1-6)  
Prerequisites: Advancement to candidacy or consent of instructor.
    - HSC 624 Seminar in Community Analysis and Program Planning (3)  
Prerequisites: Undergraduate major in Health Science or related field; HSC 402 or department consent.
    - HSC 625 Advanced Community Health Education (3)  
Prerequisites: Undergraduate major in Health Science or related field; HSC 624 or department consent.
    - H SC 626 Integrative Seminar in Public Health (3)  
Prerequisites: HSC 570, advancement to candidacy.
    - HSC 696 Research Methods (3)  
Prerequisites: HSC 500, HSC 503
  - B. 3 units of electives at the 500/600 level;  
A comprehensive written examination (see department for guidelines) or a thesis with an oral exam. (Note: In order to satisfy the culminating activity requirement (thesis, project, or comprehensive examination dependent upon the program), students must earn at least three (3) units and no more than six (6) units related to the completion of the

culminating activity.)

### Requirements - Thesis Option

- A. 39 units of core classes including:
  - H SC 500 Principles of Epidemiology (3)  
Prerequisites: HSC 403 or equivalent.
  - H SC 503 Advanced Community Health Statistics (3)  
Prerequisites: HSC 403 or equivalent.
  - H SC 508 Administrative Relationships in Health Education Programs (3)  
Prerequisites: Undergraduate major in Health Science or related field.
  - H SC 528 Advanced Environmental Health (3)  
Prerequisites: HSC 500.
  - H SC 570 Theoretical Concepts and Issues in Health Science (3)  
Prerequisites: None.
  - H SC 581 Curriculum Dev in Health Education (3)  
Prerequisites: Undergraduate major in Health Science or related field.
  - H SC 585 Health Education Internship (3)  
Prerequisites: Advancement to candidacy or consent of instructor.
  - H SC 624 Seminar in Community Analysis and Program Planning (3)  
Prerequisites: Undergraduate major in Health Science or related field; HSC 402 or department consent.
  - H SC 696 Research Methods (3)  
Prerequisites: HSC 500, HSC 503
  - H SC 698 Thesis (1-6)  
Prerequisite: HSC 503, HSC 570, HSC 696 and advancement to candidacy.
- B. 9-12 units of electives in a specialty field at the 500/600 level; A thesis with an oral exam.

### Single Subject Teaching Credential in Health Science

For information, refer to the undergraduate section in this department.

---

### Courses (H SC)

---

#### LOWER DIVISION

##### 150. Medical Terminology (1)

Development of medical vocabulary emphasizing the building of terms utilizing prefixes, combining forms and suffixes. Includes medical terms for application in the interpretation of medical records.

(Lecture-discussion 1 hour) Letter grade only (A-F).

##### 210. Contemporary Health Issues (3)

Prerequisite: GE Foundation requirements.

Develop a scientific understanding of contemporary health issues enabling one to examine, interpret, evaluate and apply to individual personal health; includes health related issues experienced throughout the life cycle and an identification of community health resources.

## UPPER DIVISION

### 301. Orientation to Health Science (3)

Prerequisite: Open to Health Science majors and minors only.

Overview of philosophy of Health Science Department Orientation to degree requirements, career opportunities, and theoretical and practical issues of health education as a profession.

Letter grade only (A-F).

### 333. Latino Nutrition, Health and Chronic Disease Prevention (3)

Prerequisite: GE Foundation requirements, one or more Exploration courses and Upper-division standing.

Explores nutrition-related and contextual factors associated with the high rates of chronic disease among diverse Latino-specific subpopulations and provide culturally-relevant strategies for prevention.

Letter grade only (A-F). Same course as NUTR 333. Not open for credit to students with credit in NUTR 333.

### 400. Principles of Epidemiology (3)

Prerequisite: Open to Health Care Administration and Health Science majors and minors only. Health Care Administration majors: SOC 170 or PSY 110 or STAT 108. Health Science majors: H SC 403.

Application of epidemiologic procedures to the understanding of the occurrence and control of infectious and chronic diseases, mental illness, environmental health hazards, accidents, and geriatric problems.

Letter grade only (A-F). (Lecture 3 hours)

### 401. Community Health Education (3)

Prerequisite: H SC 301.

Concepts of community health education with emphasis on community organization; application of these concepts to health education activities of official, voluntary and professional health agencies.

Letter grade only (A-F).

### 402. Applied Concepts of Community Health Education (3)

Prerequisites: H SC 301, H SC 401 and H SC 421

Identification and application of concepts unique to community health education; includes examination of theoretical foundations, marketing and promotion techniques, and application of health education strategies.

Letter grade only (A-F).

### 403. Community Health Statistics (3)

Prerequisites: GE Math and SOC 170 or PSY 110 (PSY 100 prereq) or STAT 108 or HDEV 190

Representative topics are descriptive statistics, sample designs, central tendency, and variability. Statistical tools for inferential analyses include hypothesis testing and parameter estimation.

Letter grade only (A-F). (Lecture 2 hours, Activity 2 hours)

### 405. Health Education Program Evaluation and Measurement (3)

Prerequisites: H SC 403 and H SC 421

Research designs, standardized measurements, data collection, analysis, and reporting are used to develop evaluation skills to assess program outcomes. Program activities promoting behavior change in communities, organizations, groups and individuals are evaluated.

Letter grade only (A-F). (Discussion 3 hours)

### 407. Health Equity and Health Disparities Research in the US (3)

Prerequisite: GE Foundation, one or more Exploration courses and upper-division standing.

Explores socioeconomic, biologic, environmental, and institutional factors associated with health issues and disease. Students will learn about research and interventions to affect positive health outcomes and access for underserved, underrepresented diverse populations.

Letter grade only (A-F).

### 411A. Health Science for Elementary Teachers (3)

Prerequisite: Upper-division standing. Corequisite: Current CPR Certification required.

Contemporary teaching of health education in elementary schools; emphasizes coordinated school health, drugs, sexuality, nutrition, child abuse, violence, community and human ecology. Based upon California Health Framework, meets state credential requirements.

Not open for credit to health Science majors or minors.

### 411B. Health Science for Secondary Teachers (3)

Prerequisite: Upper-division standing. Corequisite: Current CPR Certification required.

Contemporary teaching of health education in secondary schools; emphasizes coordinated school health, integrating health content and instruction into other subjects, drugs, sexuality, nutrition, child abuse, violence, community and human ecology. Based upon California Health Framework, meets state credential requirements.

Not open for credit to health Science majors or minors

### 420. International Health (3)

Prerequisite: GE Foundation, one or more Exploration courses, and upper-division standing.

Analysis of current health problems in the world; examination of contributing social, psychological, physical, legal and cultural factors; international programs for the improvement of world health; structure and functions of world health agencies and organizations.

Course fee may be required.

### 421. Health Behavior (3)

Prerequisites: Upper-division standing

Survey of contemporary research on the health effects of human behavior. Special emphasis is given to current issues of health behavior, decision-making in contemporary society, values clarification and contemporary theories of behavior change (e.g., health belief model).

Letter grade only (A-F).

### 422. Environmental Health (3)

Prerequisite: Upper-division standing

Examination of reciprocal relationship existing between man and his environment, with the emphasis directed toward the health related consequences of man's actions in the environment.

Letter grade only (A-F).

### 423. Consumer Health (3)

Prerequisite: Upper-division standing

Effective selection of health information, products and services; medical quackery and fraudulent health practices; laws and agencies protecting the consumer; health care delivery systems; and influences of corporate control on the consumer movement in contemporary society.

Letter grade only (A-F).

### **425. Human Sexuality and Sex Education (3)**

Prerequisite: G.E. Foundation, one or more Exploration courses, and upper-division standing. Recommended: PSY 100.

Biomedical, sociological, and psychological aspects of human sexuality, the communication of sexual information, the implementation, content and evaluation of family life and sex education in the schools.

### **427. Drugs and Health (3)**

Prerequisite: Upper-division standing.

Study of psychoactive drugs with primary attention to alcohol, nicotine, caffeine, cannabis, hallucinogens, narcotics and other drugs; examination of trends, philosophical issues and behavioral practices associated with drug use and dependence. Includes physiological psycho-social, legal, historical, philosophical and political aspects; treatment-rehabilitation activities and programs; and drug abuse prevention education.

Not open for credit to students with credit in H SC 327.

### **430. School Health Program (3)**

Prerequisite: H SC 301.

Intensive analysis of the philosophy, organization and legal aspects of the school health program. Includes school and community coordination for a team approach to health education for the school age individual.

Letter grade only (A-F).

### **435./535. Health Promotion and Risk Reduction (3)**

Prerequisite: H SC 421.

Health promotion/risk reduction program content, development and implementation for use in corporate, hospital and public settings. Intended primarily for Health Science majors.

Letter grade only (A-F). (Discussion 3 hours)

### **440. Applied Concepts of Health Science (3)**

Prerequisite: H SC 430. Students must have scored 11 or higher on the GEAR Placement Examination or successfully completed the necessary portfolio course that is a prerequisite for a GEAR Writing Intensive Capstone.

Identification and application of the concepts and modes of inquiry unique to the discipline of health science; development of appropriate curriculum based upon an analysis of individual, school and community needs and interests.

Letter grade only (A-F).

### **485. Internship in Community Health Education (3)**

Prerequisites: H SC 402 and H SC 405

Preparation for and introduction to work experience in a community health organization. A minimum of 80 hours work experience in a community health organization under direct supervision of a preceptor.

Letter grade only (A-F). (6 hours activity)

### **486. Internship and Careers in Community Health Education (3)**

Prerequisite: Open to Health Science majors only. H SC 485 and consent of instructor.

Culminating experience in a community health setting. Assess needs, plan and implement health education programs and strategies. Evaluation of work experience in a community health organization where a minimum of 120 hours work experience required under the direct supervision of a preceptor.

Letter grade only (A-F). (6 hours activity)

### **490. Independent Studies in Health Science (1-3)**

Prerequisite: Consent of instructor.

Students conduct independent library or laboratory research under the supervision of a faculty member and write a report of the investigation.

May be repeated to a maximum of 6 units.

### **497. Selected Topics in Health Science (3)**

Group investigation of selected topics.

Letter grade only (A-F). May be repeated for a maximum of 6 units with different topics in different semesters. Topics announced in the *Schedule of Classes*.

## **GRADUATE LEVEL**

### **500. Principles of Epidemiology (3)**

Prerequisite: HSC 403 or equivalent.

Application of epidemiologic procedures to the understanding of the occurrence and control of infectious and chronic diseases, mental illness, environmental health hazards, accidents, and geriatric problems.

Letter grade only (A-F). (Lecture 3 hours.)

### **503. Advanced Community Health Statistics (3)**

Prerequisite: HSC 403 or equivalent.

Analysis of quantitative health related data. Topics include mean and percentage comparisons, multiple regression, logistic regression and survival analysis. Use of computers is required.

Letter grade only (A-F). (Discussion, 3 hours)

### **507. Health Equity and Health Disparities Research in the US (3)**

Prerequisite: Undergraduate major in Health Science or related field.

Explores socioeconomic, biologic, environmental, and institutional factors associated with health issues and disease. Students will learn about research and interventions to affect positive health outcomes and access for underserved, underrepresented diverse populations.

Letter grade only(A-F).

### **508. Administrative Relationships in Health Education Programs (3)**

Prerequisite: Undergraduate major in Health Science or related field.

Introduction to administrative theory; investigation of administrative responsibilities and functions implicit in school health or other health education programs.

Letter grade only (A-F).

### **528. Advanced Environmental Health (3)**

Prerequisite: HSC 500.

Organization and methods for promoting human health by controlling environmental factors.

Letter grade only (A-F).

### **534. Advanced Latino Nutrition, Health and Chronic Disease Prevention (3)**

Prerequisite: Open to students enrolled in graduate programs in Family and Consumer Sciences, Health Science, or related fields.

Explores nutrition-related and contextual factors associated with the high rates of chronic disease among diverse Latino-specific subpopulations and provides culturally relevant strategies for prevention.

Letter grade only (A-F). Same course as FCS 534. Not open for credit to students with credit in FCS 534.

### **535./435. Health Promotion and Risk Reduction (3)**

Prerequisite: H SC 421 or consent of instructor.

Health promotion/risk reduction program content, development and implementation for use in corporate, hospital and public settings. Intended primarily for Health Science majors.

Letter grade only (A-F). (Discussion 3 hours)

**537. Culturally Responsive Nutrition Promotion for Latinos (3)**

Prerequisite: Open to students enrolled in graduate programs in Family and Consumer Sciences, Health Science, or related fields.

Explores the need and methods to develop culturally and linguistically relevant nutrition education with a focus on the Latino population. Students analyze, evaluate, and create culturally competent nutrition interventions for the Latino community.

Letter grade only (A-F). Same course as FCS 537. Not open for credit to students with credit in FCS 537.

**570. Theoretical Concepts and Issues in Health Science (3)**

Identification and analysis of current trends, philosophies and issues in health science.

Letter grade only (A-F).

**581. Curriculum Development in Health Education (3)**

Prerequisite: Undergraduate major in Health Science or related field.

Principles of curriculum development; selection and evaluation of resource materials; theory and practice in measurement in health education.

Letter grade only (A-F).

**585. Health Education Internship (1-6)**

Prerequisite: Advancement to candidacy and department consent.

Extended applied experience under guidance of faculty and preceptors in an approved health education practice setting.

Letter grade only (A-F). (480 hours of field placement or the equivalent experience.)

**590. Independent Study (1-3)**

Independent research conducted under the supervision of a full-time faculty member resulting in a written report of the investigation.

Letter grade only (A-F). May be repeated to a maximum of 6 units with different topics.

**597. Selected Topics in Health Science (3)**

Group investigation of selected topics. Topics are announced in the Schedule of Classes.

Letter grade only (A-F). May be repeated for a maximum of 6 units with different topics in different semesters.

**624. Seminar in Community Analysis and Program Planning (3)**

Prerequisite: Undergraduate major in Health Science or related field; HSC 402 or department consent.

Process and techniques of community analysis and program planning.

Letter grade only (A-F).

**625. Advanced Community Health Education (3)**

Prerequisite: Undergraduate major in Health Science or related field; HSC 624 or department consent.

Advanced study of educational and related theory applicable to the conduct of health education programs in community and other settings. Methods of promoting change; role as program and staff director and evaluation techniques.

Letter grade only (A-F).

**626. Integrative Seminar in Public Health (3)**

Prerequisite: H SC 570, advancement to candidacy.

Summative critical analysis of current methodologies, research, and practices in public health and health education in particular. Synthesis of coursework, internship, and other relevant experiences in the graduate program.

Letter grade only (A-F).

**696. Research Methods (3)**

Prerequisite: Undergraduate major in Health Science or related field; undergraduate course in statistics.

Introduction to research methodology in the area of Health Science.

Letter grade only (A-F).

**697. Directed Studies (1-3)**

Prerequisite: Advancement to candidacy.

Independent investigation of research problems in health education.

Letter grade only (A-F).

**698. Thesis (1-3)**

Prerequisite: H SC 696, advancement to candidacy.

Planning, preparation and completion of an approved thesis.

May be repeated to a maximum of 6 units in different semesters.