

Program**BS in Health Science****Options in:****Environmental Health****Gerontology****Health Education****Health Services Administration****Minor in Gerontology****Minor in Health Science****Minor in Health Services Administration****Certificate in Emergency Medical Services****Administration****Certificate in Gerontology****Single Subject Teaching Credential in****Health Science**

The BS in Health Science provides students with a broad-based curriculum to pursue many career paths in the health field. Four options are available:

The *Option in Environmental Health* prepares students to play a critical role in ensuring the safety of life's necessities: food, water, air, and shelter. Most graduates work in the public sector at the federal, state, and local levels. Despite the important role in public safety that environmental health professionals play, their numbers are insufficient to meet the demand. The environmental health curriculum is designed to prepare students to become certified as Registered Environmental Health Specialists, [REHS] by the California Department of Health Services. Graduates of the Environmental Health Option are qualified to take the REHS exam after completing 9 months of full-time employment in an environmental health work setting.

The *Option in Gerontology* prepares students to meet the health-related needs and challenges of the fastest growing segment of the American population—older adults. Gerontology professionals are needed in senior centers, health and social service agencies, assisted living communities, nutrition and recreation programs, adult day-care centers, and long-term care settings.

The *Option In Health Education* prepares students for entry-level positions as health educators in county health departments, non-profit health agencies, medical service settings, school systems, and businesses. Health educators promote, maintain, and improve individual and community health. They do this by assessing needs; planning, implementing, and evaluating health education programs; coordinating health education services; serving as a resource person; and advocating for specific health issues. Graduates in this option are qualified to apply to take the test for national credentialing as a Certified Health Education Specialist (CHES). The Health Education curriculum has been approved by the Society for Public Health Education.

The *Option In Health Services Administration* qualifies graduates for a range of entry-level positions in the health care delivery system, such as department manager in a hospital, director of a convalescent hospital, managed care negotiator, clinic manager, or administrator of a public



health program. The curriculum addresses the business skills related to operation of healthcare organizations as well as the organization of the healthcare system. The Health Services Administration program (HSA) is a fully certified undergraduate member of the Association of University Programs in Health Administration (AUPHA).

The Minor in Gerontology gives the undergraduate an opportunity to learn about the critical aging-related issues that can enhance their major field of study.

The Minor in Health Science provides a concentration of courses in the health field which can be a useful adjunct for students in psychology, sociology, social work, recreation, physical education, child development, and nutrition.

The Minor in Health Services Administration enables students to expand career potential with courses in the health care management field. The minor is especially suited for students in business, economics, public administration, public relations, nursing, psychology, and sociology.

The Certificate in Emergency Medical Services (EMS) Administration combines knowledge of health administration and the healthcare system with specialized courses in EMS organizations and EMS systems. Career opportunities include EMS provider organizations and EMS coordinating/regulatory agencies.

The Certificate in Gerontology consists of an interdisciplinary cluster of courses and an internship to enable students to effectively work with older people in a variety of settings. The certificate prepares individuals in social work, recreation, nursing, psychology, sociology, nutrition, and other helping professions to work with older adults.

The **Single Subject Teaching Credential Waiver in Health Science** allows students to fulfill credential requirements while obtaining a degree. Students who want to apply to a credential program should choose the Option in Health Education.

Health Science

College of Behavioral and Social Sciences
Dean: Gayle E. Hutchinson

**Department of Health
and Community Services**
Butte Hall 607

530-898-6661**530-898-5107 (fax)****e-mail: hcsv@csuchico.edu****<http://www.csuchico.edu/hcsv/>****Chair: Mary Portis****Undergraduate Advisors:****Environmental Health: Diana Flannery****Gerontology: Mark Tomita****Health Education: Holly Nevarez****Health Services Admin.: Richard Narad****Health Science Credential: Mike Mann**

The Bachelor of Science in Health Science

Total Course Requirements for the Bachelor's Degree: 120 units

See "Requirements for the Bachelor's Degree" in the *University Catalog* for complete details on general degree requirements. A minimum of 40 units, including those required for the major, must be upper division.

A suggested Major Academic Plan (MAP) has been prepared to help students meet all graduation requirements within four years. Please request a plan from your major advisor or view it and other current advising information at <http://em.csuchico.edu/aap/ProgramSearch>.

General Education Requirements: 48 units

See "General Education Requirements" in the *University Catalog* and the *Class Schedule* for the most current information on General Education Requirements and course offerings. The course requirements marked below with an asterisk (*) may also be applied toward General Education.

Diversity Course Requirements: 6 units

See "Diversity Requirement" in the *University Catalog*. Most courses taken to satisfy these requirements may also apply to General Education.

U.S. History, Constitution, and American Ideals: 6 units

See "U.S. History, Constitution, and American Ideals" under "Bachelor's Degree Requirements". This requirement is normally fulfilled by completing HIST 130 and POLS 155 or approved equivalents. Courses used to satisfy this requirement do not apply to General Education.

Literacy Requirement:

See "Mathematics and Writing Requirements" in the *University Catalog*. Writing proficiency in the major is a graduation requirement and may be demonstrated through satisfactory completion of a course in your major which has been designated as the Writing Proficiency (WP) course for the semester in which you take the course. Students who earn below a C- are required to repeat the course and earn a C- or better to receive WP credit. See the *Class Schedule* for the designated WP courses for each semester. You must pass ENGL 130 (or its equivalent) with a C- or better before you may register for a WP course.

Course Requirements for the Major: 63-69 units

Completion of the following courses, or their approved transfer equivalents, are required of all candidates for this degree. Additional required courses, depending upon the selected option or advising pattern, are outlined following the major core program requirements.

Note: A maximum of 15 units of internship (courses numbered 189, 289, 389, 489) may be applied to a bachelor's degree at CSU, Chico.

Major Core Program: 18 units

6 courses required:

HCSV 321	Community Health	3.0	FS
HCSV 328	Multicultural Health	3.0	FS USD

This course is also offered as MCGS 328.

HCSV 425	Research & Eval in Health	3.0	FS WP
Prerequisites: ENGL 130 (or its equivalent) with a grade of C- or higher, MATH 105.			
HCSV 489	Internship	3.0-11.0	FS
Prerequisites: Concurrent enrollment in HCSV 490, senior standing, minimum 2.0 GPA in the major at CSU, Chico, faculty permission.			

Note: A minimum of 5 units of HCSV 489 is required for all options.

HCSV 490	Internship Seminar	1.0	FS
Prerequisites: Concurrent enrollment in HCSV 489.			
MATH 105	Statistics	3.0	FS *
Prerequisites: Completion of ELM requirement.			

Major Option Course Requirements: 45-51 units

The following courses, or their approved transfer equivalents, are required dependent upon the option chosen. Students must select one of the following options for completion of the major course requirements.

The Option in Environmental Health: 49-51 units

Math and Science Core: 31-32 units

2 courses required:

BIOL 151	Prin of Cell and Molec Biology	4.0	FS
Prerequisites: Recommend CHEM 111 or concurrent enrollment.			
PHYS 202A	General Physics	4.0	FS *
Prerequisites: High school physics or faculty permission. High school trigonometry and second-year high school algebra or equivalent (MATH 051 and MATH 118 at CSU, Chico).			

1 course selected from:

BIOL 211	Allied Health Microbiology	4.0	FS
Prerequisites: A college course in biology and in general chemistry.			
BIOL 371	Microbiology	4.0	FS WP
Prerequisites: ENGL 130 (or its equivalent) with a grade of C- or higher; BIOL 151, BIOL 152, BIOL 153, or faculty permission.			

1 course selected from:

CHEM 107	Gen Chem for Applied Sciences	4.0	FS *
Prerequisites: Intermediate Algebra.			
CHEM 111	General Chemistry	4.0	FS *
Prerequisites: Second-year high school algebra; one year high school chemistry. (One year of high school physics and one year of high school mathematics past Algebra II are recommended.)			

1 course selected from:

CHEM 108	Organic Chem for Applied Sci	4.0	FS
Prerequisites: CHEM 107 or CHEM 111 or equivalent.			
CHEM 270	Organic Chemistry	4.0	FS
Prerequisites: CHEM 112.			

1 course selected from:

MATH 109	Survey of Calculus	4.0	FS *
Prerequisites: Completion of ELM requirement; MATH 118, MATH 119 (or High School equivalents).			
MATH 120	Analytic Geometry and Calculus	4.0	FS *
Prerequisites: Completion of ELM requirement; both MATH 118 and MATH 119 (or high school equivalent); a score that meets department guidelines on a department administered calculus readiness exam.			

2 courses selected from:

BIOL 103	Human Anatomy	4.0	FS *
BIOL 104	Human Physiology	4.0	FS *
BIOL 152	Prin Ecol, Evol, Org Biology	4.0	SP
Prerequisites: BIOL 151 or faculty permission; recommend CHEM 112 or concurrent enrollment.			
CHEM 350	Introductory Biochemistry	3.0	FS
Prerequisites: CHEM 108.			
GEOS 102	Physical Geology	3.0	FS *
Prerequisites: High school chemistry or physics is recommended; students with no previous science courses are advised to enroll in GEOS 101. No college credit for those who have passed GEOS 101.			
PHYS 202B	General Physics	4.0	FS
Prerequisites: PHYS 202A.			

Environmental Health course requirements: 19 units

7 courses required:

CHEM 445	Environmental Toxicology	2.0	SP
Prerequisites: CHEM 108 or CHEM 270.			
CIVL 431	Environmental Engineering	4.0	SP
Prerequisites: BIOL 151 or NSCI 102; CHEM 107 or CHEM 111; Math 109 or MATH 120; junior standing.			
GEOG 119A	Introductory ArcGIS	1.0	SP
HCSV 360	Public Health Administration	3.0	SP
HCSV 362	Environmental Health	3.0	FS
HCSV 463	Epidemiology	3.0	FA
Prerequisites: MATH 105. Recommended: HCSV 320.			
POLS 461	Environmental Politics/Admin	3.0	FA

The Option in Gerontology: 46 units

14 courses required:

BIOL 104	Human Physiology	4.0	FS *
HCSV 260	Computer Apps in Health Educ	3.0	FS
HCSV 320	Chronic/Communicable Diseases	3.0	SP
Prerequisites: BIOL 104 is strongly recommended.			
HCSV 360	Public Health Administration	3.0	SP
HCSV 369	Health Education Techniques	3.0	SP
HCSV 431	The Healthcare Delivery System	3.0	FA
HCSV 443	Social Gerontology	3.0	SP
HCSV 463	Epidemiology	3.0	FA
Prerequisites: MATH 105. Recommended: HCSV 320.			
HCSV 471	Hlth Ed Planning Theory/Pract	3.0	FA
Prerequisites: HCSV 321 or faculty permission.			
HCSV 541	Health in the Later Years	3.0	FA
HCSV 579	Grant Wrng/Other Fundraising	3.0	FS
PSYC 354	Psychology of Aging	3.0	FA
RECR 360	Therapeutic Recr Older Adults	3.0	FS
Prerequisites: Concurrent enrollment in or prior completion of RECR 200, or faculty permission.			
SWRK 474	Policy/Progs for Older Adults	3.0	SP

1 course selected from:

KINE 110	Phys Fitness: A Way of Life	3.0	FS *
NFSC 360	Nutrtn Throughout Life Cycle	3.0	FS
Prerequisites: BIOL 104; NFSC 100 or NFSC 240.			
NFSC 469	Nutrition & Aging	3.0	Inq
Prerequisites: NFSC 360 or faculty permission.			
RELS 264	Dying, Death, and Afterlife	3.0	FS *

The Option in Health Education: 46-48 units

13 courses required:

BIOL 104	Human Physiology	4.0	FS *
HCSV 260	Computer Apps in Health Educ	3.0	FS
HCSV 265	Human Sexuality	3.0	FS *
HCSV 320	Chronic/Communicable Diseases	3.0	SP
Prerequisites: BIOL 104 is strongly recommended.			
HCSV 330	Mgmt Prin Hlth Svs	3.0	FA
HCSV 362	Environmental Health	3.0	FS
HCSV 369	Health Education Techniques	3.0	SP
HCSV 370	Drugs in Our Society	3.0	FS *
HCSV 463	Epidemiology	3.0	FA
Prerequisites: MATH 105. Recommended: HCSV 320.			
HCSV 467	Mental and Emotional Health	3.0	SP
HCSV 471	Hlth Ed Planning Theory/Pract	3.0	FA
Prerequisites: HCSV 321 or faculty permission.			
HCSV 579	Grant Wrtg/Other Fundraising	3.0	FS
NFSC 303	Nutrition/Physical Fitness	3.0	FS *
Prerequisites: One lower-division course in biological sciences.			

2 courses selected from:

BIOL 103	Human Anatomy	4.0	FS *
BIOL 211	Allied Health Microbiology	4.0	FS
Prerequisites: A college course in biology and in general chemistry.			
BIOL 334	Conservation Ecology	3.0	FS *
Prerequisites: BIOL 101 or equivalent.			
CHEM 108	Organic Chem for Applied Sci	4.0	FS
Prerequisites: CHEM 107 or CHEM 111 or equivalent.			
HCSV 325	Consumer Health	3.0	FS *
HCSV 363	Child Health	3.0	FS *
HCSV 365	Complementary & Alt Medicine	3.0	Inq
HCSV 368	Women's Health	3.0	FS *
This course is also offered as NURS 368, and WMST 368.			
HCSV 431	The Healthcare Delivery System	3.0	FA
HCSV 450	Hlth Ed for Elem School Tchrs	3.0	FS
HCSV 451	Hlth Ed for Secondary Tchrs	3.0	FS
HCSV 462	School Health Programs	3.0	FS
Prerequisites: HCSV 369 recommended.			
HCSV 541	Health in the Later Years	3.0	FA

Note: Students seeking the Single Subject Waiver in Health Science are required to take HCSV 325 and HCSV 462.

The Option in Health Services Administration: 45 units

13 courses required:

ACCT 201	Intro to Financial Accounting	3.0	FS
ACCT 202	Intro to Managerial Accounting	3.0	FS
Prerequisites: ACCT 201 (or ABUS 261 for ABUS majors only).			
HCSV 330	Mgmt Prin Hlth Svs	3.0	FA
HCSV 332	Laws/Ethics/Regs in Hlth Svc	3.0	FA
HCSV 333	Medical Economics	3.0	FS *
This course is also offered as ECON 352.			
HCSV 430	Mgmt of Hlth Services Organiz	3.0	FA
Prerequisites: ACCT 201 and HCSV 330 or permission of instructor.			
HCSV 431	The Healthcare Delivery System	3.0	FA
HCSV 433	Fin Mgmt of Healthcare Org	3.0	FA
Prerequisites: ACCT 201, ACCT 202, MATH 105.			
HCSV 435	Health Care Policy & Politics	3.0	SP
Prerequisites: HCSV 431.			
This course is also offered as POLS 405.			
HCSV 530	Hlth Svcs Admin Capstone Sem	3.0	SP
Prerequisites: HCSV 330 and HCSV 431, or faculty permission.			
MGMT 300	Communication in Business	3.0	FS WP
Prerequisites: ENGL 130 (or its equivalent) with a grade of C- or higher.			
MGMT 304	Human Resource Management	3.0	FS
MINS 301	Corporate Tech Integration	3.0	FS

1 course selected from:

HCSV 320	Chronic/Communicable Diseases	3.0	SP
Prerequisites: BIOL 104 is strongly recommended.			
HCSV 463	Epidemiology	3.0	FA
Prerequisites: MATH 105. Recommended: HCSV 320.			

1 course selected from:

HCSV 320	Chronic/Communicable Diseases	3.0	SP
Prerequisites: BIOL 104 is strongly recommended.			
Note: May be used to satisfy this requirement if not used above.			
HCSV 438	EMS System Planning	3.0	Inq
Prerequisites: HCSV 431 or equivalent or faculty permission.			
HCSV 439	Admin EMS Organizations	3.0	Inq
Prerequisites: HCSV 330 or equivalent or faculty permission.			
HCSV 463	Epidemiology	3.0	FA
Prerequisites: MATH 105. Recommended: HCSV 320.			

Note: May be used to satisfy this requirement if not used above.

HCSV 541	Health in the Later Years	3.0	FA
HCSV 579	Grant Wrtg/Other Fundraising	3.0	FS
MKTG 305	Survey of Marketing	3.0	FS

Or any 300 or 400 level course from the College of Business with permission of the Health Services Administration advisor.

Electives Requirement:

To complete the total units required for the bachelor's degree, select additional elective courses from the total University offerings. You should consult with an advisor regarding the selection of courses which will provide breadth to your University experience and possibly apply to a supportive second major or minor.

Grading Requirement:

All courses taken to fulfill major course requirements must be taken for a letter grade except those courses specified by the department as Credit/No Credit grading only.

The BS in Health Science signifies readiness for an entry-level career in specific health-related fields. Most courses in each option have been designated as competency courses and are vital to what a professional in this field should know and be able to do. Students who earn below a C- in those courses are required to repeat the course and earn a C- or better for the course to count in the major. For the Options in Environmental Health, Gerontology, and Health Education, the courses include all upper-division HCSV courses required for the major. For the Health Services Administration Option, the courses include all required upper-division courses for the major.

Advising Requirement:

Advising is mandatory for all majors in this degree program. Consult your undergraduate advisor for specific information.

Honors in the Major

Honors in the Major is a program of independent work in your major. It requires 6 units of honors course work completed over two semesters.

The Honors in the Major program allows you to work closely with a faculty mentor in your area of interest on an original performance or research project. This year-long collaboration allows you to work in your field at a professional level and culminates in a public presentation of your work. Students sometimes take their projects beyond the University for submission in professional journals, presentation at conferences, or academic competition. Such experience is valuable for graduate school and professional life. Your honors work will be recognized at your graduation, on your permanent transcripts, and on your diploma. It is often accompanied by letters of commendation from your mentor in the department or the department chair.

Some common features of Honors in the Major program are

1. You must take 6 units of Honors in the Major course work. All 6 units are honors classes (marked by a suffix of H), and at least 3 of these units are independent study (399H, 499H, 599H) as specified by your department. You must complete each class with a minimum grade of B.
2. You must have completed 9 units of upper-division course work or 21 overall units in your major before you can be admitted to Honors in the Major. Check the requirements for your major carefully, as there may be specific courses that must be included in these units.
3. Your cumulative GPA should be at least 3.5 or within the top 5% of majors in your department.
4. Your GPA in your major should be at least 3.5 or within the top 5% of majors in your department.
5. Most students apply for or are invited to participate in Honors in the Major during the second semester of their junior year. Then they complete the 6 units of course work over the two semesters of their senior year.
6. Your honors work culminates with a public presentation of your honors project.

While Honors in the Major is part of the Honors Program, each department administers its own program. Please contact your major department or major advisor to apply.

The Minor in Gerontology

Course Requirements for the Minor: 18 units

The following courses, or their approved transfer equivalents, are required of all candidates for this minor.

6 courses required:

HCSV 328	Multicultural Health	3.0	FS USD
This course is also offered as MCGS 328.			

Health Science

HCSV	443	Social Gerontology	3.0	SP
HCSV	541	Health in the Later Years	3.0	FA
PSYC	354	Psychology of Aging	3.0	FA
RECR	360	Therapeutic Recr Older Adults	3.0	FS
Prerequisites: Concurrent enrollment in or prior completion of RECR 200, or faculty permission.				
SWRK	474	Policy/Progs for Older Adults	3.0	SP

The Minor in Health Science

Course Requirements for the Minor: 21-23 units

The following courses, or their approved transfer equivalents, are required of all candidates for this minor.

5 courses required:

HCSV	265	Human Sexuality	3.0	FS *
HCSV	321	Community Health	3.0	FS
HCSV	362	Environmental Health	3.0	FS
HCSV	370	Drugs in Our Society	3.0	FS *
NFSC	303	Nutrition/Physical Fitness	3.0	FS *

Prerequisites: One lower-division course in biological sciences.

2 courses selected from:

BIOL	104	Human Physiology	4.0	FS *
HCSV	160	Personal Health	3.0	FS *
HCSV	320	Chronic/Communicable Diseases	3.0	SP

Prerequisites: BIOL 104 is strongly recommended.

HCSV	325	Consumer Health	3.0	FS *
HCSV	328	Multicultural Health	3.0	FS USD

This course is also offered as MCGS 328.

HCSV	363	Child Health	3.0	FS *
HCSV	365	Complementary & Alt Medicine	3.0	Inq
HCSV	368	Women's Health	3.0	FS *

This course is also offered as NURS 368, and WMST 368.

HCSV	450	Hlth Ed for Elem School Tchrs	3.0	FS
HCSV	451	Hlth Ed for Secondary Tchrs	3.0	FS
HCSV	462	School Health Programs	3.0	FS

Prerequisites: HCSV 369 recommended.

HCSV	467	Mental and Emotional Health	3.0	SP
HCSV	541	Health in the Later Years	3.0	FA
KINE	323	Physiology of Exercise	4.0	FS

Prerequisites: BIOL 104 or faculty permission for non-majors, basic computer literacy skills.

For those seeking a Supplemental Authorization in Health Science (grades 9-12), HCSV 370 or HCSV 470, HCSV 265 or HCSV 465, HCSV 462, and an upper-division nutrition course (e.g., NFSC 303) are the requirements. See the Health Science advisor for details.

The Minor in Health Services Administration

Course Requirements for the Minor: 21 units

The following courses, or their approved transfer equivalents, are required of all candidates for this minor.

5 courses required:

ACCT	201	Intro to Financial Accounting	3.0	FS
HCSV	330	Mgmt Prin Hlth Svs	3.0	FA
HCSV	430	Mgmt of Hlth Services Organiz	3.0	FA
Prerequisites: ACCT 201 and HCSV 330 or permission of instructor.				
HCSV	431	The Healthcare Delivery System	3.0	FA
MGMT	304	Human Resource Management	3.0	FS

2 courses selected from:

HCSV	333	Medical Economics	3.0	FS *
This course is also offered as ECON 352.				
HCSV	433	Fin Mgmt of Healthcare Org	3.0	FA

Prerequisites: ACCT 201, ACCT 202, MATH 105.

HCSV	435	Health Care Policy & Politics	3.0	SP
------	-----	-------------------------------	-----	----

Prerequisites: HCSV 431.

This course is also offered as POLS 405.

HCSV	438	EMS System Planning	3.0	Inq
Prerequisites: HCSV 431 or equivalent or faculty permission.				
HCSV	439	Admin EMS Organizations	3.0	Inq
Prerequisites: HCSV 330 or equivalent or faculty permission.				

HCSV	541	Health in the Later Years	3.0	FA
HCSV	579	Grant Wrtg/Other Fundraising	3.0	FS
MGMT	300	Communication in Business	3.0	FS WP

Prerequisites: ENGL 130 (or its equivalent) with a grade of C- or higher.

MKTG	305	Survey of Marketing	3.0	FS
POLS	460B	Public Personnel Admin	3.0	FS

Prerequisites: POLS 460A or concurrent enrollment.

POLS	460D	Collective Bargaining	3.0	JA
------	------	-----------------------	-----	----

Prerequisites: Faculty permission.

The Certificate in Emergency Medical Services Administration

The Certificate in Emergency Medical Services Administration consists of a cluster of required courses which include generalist knowledge regarding health services administration and the health care delivery system and specialized courses in emergency medical services organizations and the EMS system. The certificate can provide a specialty for health services administration majors or specialized knowledge and skills to those already working in EMS. The certificate will expand career opportunities with public and private ambulance services and EMS coordinating and regulatory agencies.

A student enrolled in the Emergency Medical Services Administration Certificate program must be accepted for University admission and must complete required course work as outlined below. It is not necessary to complete the requirements for a bachelor's degree in order to receive the Certificate in Emergency Medical Services Administration. However, the courses completed for the certificate may be applied to the BS in Health Science: Health Services Administration. An overall grade point average of 2.5 is required for the certificate.

Course Requirements for the Certificate: 24 units

The following courses, or their approved transfer equivalents, are required of all candidates for this certificate.

6 courses required:

ACCT	201	Intro to Financial Accounting	3.0	FS
HCSV	330	Mgmt Prin Hlth Svs	3.0	FA
HCSV	431	The Healthcare Delivery System	3.0	FA
HCSV	438	EMS System Planning	3.0	Inq

Prerequisites: HCSV 431 or equivalent or faculty permission.

HCSV	439	Admin EMS Organizations	3.0	Inq
------	-----	-------------------------	-----	-----

Prerequisites: HCSV 330 or equivalent or faculty permission.

HCSV	489	Internship	3.0-11.0	FS
------	-----	------------	----------	----

Prerequisites: Concurrent enrollment in HCSV 490, senior standing, minimum 2.0 GPA in the major at CSU, Chico, faculty permission.

Students must take at least 3 units of internship.

1 course selected from:

MGMT	304	Human Resource Management	3.0	FS
POLS	460B	Public Personnel Admin	3.0	FS

Prerequisites: POLS 460A or concurrent enrollment.

1 course selected from:

HCSV	333	Medical Economics	3.0	FS *
------	-----	-------------------	-----	------

This course is also offered as ECON 352.

HCSV	435	Health Care Policy & Politics	3.0	SP
------	-----	-------------------------------	-----	----

Prerequisites: HCSV 431.

This course is also offered as POLS 405.

This certificate is offered as a multicampus program. Many of these courses can be taken on any of the participating campuses. See the EMS Administration program coordinator for specific information.

The Certificate in Gerontology

A student enrolled in the Gerontology Certificate Program must be accepted for University admission and must complete required course work as outlined below. It is not necessary to complete the requirements for a bachelor's degree in order to receive the Certificate in Gerontology. With the permission of the certificate advisor, students may substitute an internship offered by another department for HCSV 389. An overall grade point average of 2.5 is required for the certificate.

Course Requirements for the Certificate: 21 units

The following courses, or their approved transfer equivalents, are required of all candidates for this certificate.

7 courses required:

HCSV	328	Multicultural Health	3.0	FS USD
This course is also offered as MCGS 328.				
HCSV	389	Community Service: Supervision	1.0-3.0	FS

Prerequisites: Faculty permission.

HCSV 389 must be taken for 3 units.

HCSV	443	Social Gerontology	3.0	SP
HCSV	541	Health in the Later Years	3.0	FA
PSYC	354	Psychology of Aging	3.0	FA
RECR	360	Therapeutic Recr Older Adults	3.0	FS

Prerequisites: Concurrent enrollment in or prior completion of RECR 200, or faculty permission.

SWRK	474	Policy/Progs for Older Adults	3.0	SP
------	-----	-------------------------------	-----	----

Appropriate course substitutions of equivalents or waivers may be granted by the Gerontology program advisor. Please consult the advisor regarding specifics.

The Single Subject Matter Preparation Program in Health Science

Course requirements for the Single Subject Matter Preparation Program, 63-64 units, in conjunction with the Professional Education Program, leads to a Single Subject Teaching Credential.

In most majors, candidates for this credential will normally fulfill the single subject matter preparation program by completing the appropriate education option in the major. Any exceptions to this procedure are noted at the end of this section. In addition to the single subject matter preparation program, completion of an additional professional education program is required to qualify for a California teaching credential. Professional education (credential) programs are available through the School of Education. For prerequisites and other admission requirements to professional education programs, see the "Education" chapter of this catalog.

Your departmental credential advisor is responsible for verifying that the subject matter preparation program has been completed. If you are interested in obtaining a teaching credential, confer with the appropriate credential advisor early in your University career. Department credential advisors can assist you in planning an educational program that meets both major and credential requirements.

Subject matter preparation requirements are governed by state legislative action and approval of the California Commission on Teacher Credentialing. Requirements may change between catalogs. Please consult with your departmental credential advisor for current information.

Students seeking the Subject Matter Competence in Health Science for entrance into any teacher credential program in California must complete the BS in Health Science, Option in Health Education (described above), along with a professional education program. They must also complete BIOL 103, CHEM 100, and PSY 001. Students who have a bachelor's degree in another discipline and are seeking Subject Matter Competence in Health Science for entrance into the CSU, Chico credentialing program must earn a passing score on the SSAT in health science.

The Faculty

Lyndall A. Ellingson, 1996, Assoc Professor, PhD, Indiana U.
Diana Flannery, 1991, Professor, PhD, Pennsylvania State U.
Julie Freelove-Charton, 2008, Assist Professor, PhD, U So Carolina.
Roland J. Lamarine, 1987, Professor, HSD, Indiana U.
Mike Mann, 2007, Assist Professor, PhD, U Florida.
Richard A. Narad, 1990, Professor, DPA, USC.
Holly C. Nevarez, 2006, Assist Professor, PhD, Oregon State U.
Mary P. Portis, 1989, Professor, DrPH, Loma Linda U.
Mark Tomita, 2002, Assoc Professor, PhD, New York U.

Emeritus Faculty

Robert J. Dionne, 1969, Professor Emeritus, EdD, U Oregon.
Armeda F. Ferrini, 1977, Chair, Professor Emerita, PhD, U Utah.
Rosalind Reed, 1977, Professor Emerita, PhD, Oregon State U.
Jules R. Vautrot, 1970, Professor Emeritus, EdD, U No Colorado.

Health and Community Services Course Offerings

Please see the section on "Course Description Symbols and Terms" in the University Catalog for an explanation of course description terminology and symbols, the course numbering system, and course credit units. All courses are lecture and discussion and employ letter grading unless otherwise stated. Some prerequisites may be waived with faculty permission. Many syllabi are available on the Chico Web.

HCSV 160 Personal Health 3.0 Fa/Spr

Explores major issues regarding behavior conducive to optimal health throughout the life course. Topics covered include, but are not limited to, substance use and abuse, fitness, diet, sexuality, stress, and disease risk reduction. This is an approved General Education course. (004378)

HCSV 161 Emergency Care and Personal Safety 3.0 Inquire

Develops decision-making and action skills to deal with common medical emergencies. Meets EMS first responder guidelines for public safety personnel. Certification in first aid and CPR. Also addresses EMS system orientation, basic triage, obstetrical emergency, auto and water extrication. 3.0 hours clinical. (004389)

HCSV 189 Community Services: Field Experience 1.0-3.0 Fa/Spr

Prerequisites: Faculty permission.

This course is a field experience offered for 1.0-3.0 units. You must register directly with a supervising faculty member. Provides experience as a volunteer in a campus or community service agency. To receive credit for each unit you must put in a minimum of three hours per week of volunteer activity. You may take this course more than once for a maximum of 15.0 units. Credit/no credit grading only. (004436)

HCSV 198 Special Topics 1.0-3.0 Fa/Spr

This course is for special topics offered for 1.0-3.0 units. Typically the topic is offered on a one-time-only basis and may vary from term to term and be different for different sections. See the Class Schedule for the specific topic being offered. (001564)

HCSV 260 Computer Applications in Health Education 3.0 Fa/Spr

An introduction to computer software applications used in health education. Students have hands-on experience developing electronic resources for publishing health education CD-ROMs and Web sites. Skills learned may also be used for desktop publishing. Other topics addressed include digital photography, video, scanning, graphic design, archiving, professional presentations, academic databases, and evaluating electronic resources. (004434)

HCSV 265 Human Sexuality 3.0 Fa/Spr

Overview of human sexuality, including psychosexual development, gender roles, reproductive system, pregnancy and childbirth, contraception, abortion, sexually transmitted diseases including HIV/AIDS, relationships, sexual orientation, sex and the law, sexually explicit materials, and sexual dysfunction. This is an approved General Education course. (004384)

HCSV 320 Chronic and Communicable Diseases 3.0 Spring

Prerequisites: BIOL 104 is strongly recommended.

Examines the major chronic and communicable diseases, including cause, prevention, and treatment strategies. Behaviors that promote health and reduce premature death and disease are also addressed. (001574)

HCSV 321 Community Health 3.0 Fa/Spr

Analyzes fundamental principles upon which school, community, and population health are based. The contributions of federal, state, and local organizations to national goals for health promotion and disease prevention are examined. Explores fundamental social, political, organizational, and behavioral aspects of public health in school, community, and work-site settings. (001575)

HCSV 323 International Health 3.0 Inquire

Analysis of historical and current health problems in the world: population dynamics, vital statistics, global disease patterns, and variations among nations and cultures. Examination of contributing social, psychological, physical, governmental, and cultural factors affecting disease. Efforts toward health promotion and disease prevention, including international programs. (004412)

HCSV 325 Consumer Health 3.0 Fa/Spr

Examination of major health care consumer issues from historical and contemporary perspectives. Discussion of cost, availability, and quality of health care and their relationship to political and economic activities. Identification of national, regional, and local health trends affecting consumers. Analysis of individual and collective consumer strategies. This is an approved General Education course. (004445)

HCSV 328 Multicultural Health 3.0 Fa/Spr

Ethnic groups in the U.S. face many health problems. This course focuses on those problems which affect the four largest ethnic groups in the U.S.: African Americans, Hispanic Americans, American Indians, and Asian Americans. The effects of history, health beliefs and practices, and socio-economic status on the health of these ethnic populations are addressed. Current and potential strategies to improve health care delivery to these groups are explored. This is an approved US Diversity course. This course is also offered as MCGS 328. (004448)

HCSV 330 Management Principles in Health Services 3.0 Fall

Provides knowledge and skills to administer health organizations and programs. Concepts of planning, organizational behavior, and management applicable to the administration of health organizations and programs are addressed. Major approaches to management, motivation, leadership, decision making, supervision, and budgeting are presented. (001582)

HCSV 332 Laws, Ethics, and Regulations in Health Services 3.0 Fall

Study of specific areas of law, ethics, and regulations in health care. Examination of legal and ethical issues of licensing, health insurance, managed care, funding mechanisms, medical negligence and malpractice, informed consent, health care records, and patient and family rights. (004452)

HCSV 333 Medical Economics 3.0 Fa/Spr

An examination of the health care industry and its role in fulfilling national health needs. Topics include national health insurance, health financing, and resource allocation. This is an approved General Education course. This course is also offered as ECON 352. (002667)

HCSV 360 Public Health Administration 3.0 Spring

This course provides a survey of administrative functions within public health and health education programs. Major approaches to motivation, leadership, conflict management, supervision, and budgeting are presented. Concepts of marketing, public policy, administrative law and public health disaster response are addressed. (020438)

HCSV 362 Environmental Health 3.0 Fa/Spr



An overview of the relationship of people and nature; the impact of environmental conditions, such as water and air pollution, solid wastes, food contamination, vectors, radiation, noise, light, which cause deleterious effects on people's physical, mental, and social well-being. Individual and collective consumer intervention in environmental health problems. (001606)

HCSV 363 Child Health 3.0 Fa/Spr

An examination of the status, needs, and trends in the health of America's children, including selected racial/ethnic groups. The course includes an overview of physical growth and development from the prenatal period to early adolescence; discussion of common health problems, causes, symptoms, treatment, and prevention; and addresses selected health issues such as diet, physical activity, stress, violence, drugs, sexuality, and environmental risks. An overview of current and potential health services and prevention programs for children is included. This is an approved General Education course. (004441)

HCSV 364 Cancer: The Human Dimension 3.0 Inquire

This course provides basic information about cancer epidemiology, etiology, early detection, and prevention. Major emphasis upon social, psychological, economic, political, educational, and ethical aspects of cancer. (004442)

HCSV 365 Complementary and Alternative Medicine 3.0 Inquire

Explore diverse medical and health care systems, practices, and products that are not presently considered to be a part of conventional medicine. Major categories include alternative medical systems, mind-body interventions, biologically-based therapies, manipulative and body-based methods, and energy therapies. Learn how to use the scientific method to review the literature and to evaluate information. (001576)

HCSV 366 Drugs in American Film 3.0 Inquire

This course examines the popular representation of drugs in American film. It compares the film portrayal of selected illicit drugs with accurate information regarding their history, prevalence, acute and chronic effects, and treatment strategies. The course explores the use and misuse of drugs in the larger political, social, and economic context. (004444)

HCSV 368 Women's Health 3.0 Fa/Spr

Analysis of health issues which concern women throughout the life course. The impact of physiology, psychology, culture, and politics upon women's well-being will be addressed using the feminist perspective. This is an approved General Education course. This course is also offered as NURS 368, and WMST 368. (004381)

HCSV 369 Health Education Techniques 3.0 Spring

This course introduces health education theory, curricula, resources, and marketing techniques for use in school and community settings. Students plan, develop, implement, and evaluate effective health education and promotion programs. Students practice professional health education techniques while working with a local organization to implement a community health education. 2.0 hours activity, 2.0 hours lecture. (001613)

HCSV 370 Drugs in Our Society 3.0 Fa/Spr

An overview of the use and abuse of alcohol, prescription and street drugs, and their personal and societal consequences on the young adult, the family, and society. Historical perspectives, legal issues, and decision-making skills regarding drug use will also be addressed. This is an approved General Education course. (004435)

HCSV 389 Community Services: Supervision 1.0-3.0 Fa/Spr

Prerequisites: Faculty permission.
This course is an internship offered for 1.0-3.0 units. You must register directly with a supervising faculty member. Provides experience in a supervisory role in a campus or community service agency. Each unit of credit requires a minimum of three hours a week supervisory experience and seminar participation. You may take this course more than once for a maximum of 15.0 units. Credit/no credit grading only. (004449)

HCSV 398 Special Topics 1.0-3.0 Fa/Spr

This course is a special topic offered for 1.0-3.0 units. You must register directly with a supervising faculty member. (001577)

HCSV 399 Special Problems 1.0-3.0 Fa/Spr

Prerequisites: Faculty permission.
This course is an independent study of special problems offered for 1.0-3.0 units. You must register directly with a supervising faculty member. You may take this course more than once for a maximum of 6.0 units. Credit/no credit grading only. (004451)

HCSV 425 Research and Evaluation in Health 3.0 Fa/Spr

Prerequisites: ENGL 130 (or its equivalent) with a grade of C- or higher, MATH 105.
The course introduces students to research methodology and program evaluation techniques in the health field. Students develop skills for critically reading professional literature and writing a research or program evaluation proposal. This is a writing proficiency, WP, course; a grade of C- or better certifies writing proficiency for majors. (001614)

HCSV 425H Research and Evaluation in Health - Honors 3.0 Fall

Prerequisites: ENGL 130 (or its equivalent) with a grade of C- or higher, MATH 105; faculty permission. Open to Health Science majors with 3.5 or higher GPA.

The course introduces students to research methodology and program evaluation techniques in the health field. Students develop skills for critically reading professional literature and writing a research or program evaluation proposal. Students also begin work on an Honors in the Major project. This is a writing proficiency, WP, course; a grade of C- or better certifies writing proficiency for majors. (004465)

HCSV 430 Management of Health Services Organizations 3.0 Fall

Prerequisites: ACCT 201 and HCSV 330 or permission of instructor.
Examines the internal operations of health services organizations (e.g. ambulatory care, long-term care, managed care), and applies management principles including marketing, financing, legal issues, personnel issues, and quality management. (004455)

HCSV 430H Management of Health Services Organizations - Honors 3.0 Fall

Prerequisites: ACCT 201 or HCSV 330. Instructor permission required. Open to Health Science majors with a GPA of 3.5 or higher.
Examines the internal operations of health services organizations (e.g., ambulatory care, long-term care, managed care) and applies management principles including marketing, financing, legal issues, personnel issues, and quality management. Initiation of an honors project is required; the project must be completed in HCSV 499H. (004456)

HCSV 431 The Healthcare Delivery System 3.0 Fall

Provides an overview of the U.S. healthcare delivery system from historical, organizational, financial, and administrative perspectives. Analyzes current health issues, such as cost, access, and quality of care. (001583)

HCSV 432 Comparative Health Systems 3.0 Inquire

Exploration of health services delivery in selected industrialized and developing countries. Analysis of the impact of delivery styles, financing, manpower, quality assurance, technology, and government intervention upon the health of its consumers. (001584)

HCSV 433 Financial Management of Healthcare Organizations 3.0 Fall

Prerequisites: ACCT 201, ACCT 202, MATH 105.
This course provides an understanding of the process of making asset choices for the provision of health care, stewarding the assets particular to healthcare organizations (both for-profit and not-for-profit), and obtaining funds to pay for healthcare-specific assets. Includes traditional techniques of finance, but focuses on the state of the art in the theory and practice of healthcare financial management, including agency theory, valuation, capitated contract analysis, and endowment management. (004438)

HCSV 435 Healthcare Policy and Politics 3.0 Spring

Prerequisites: HCSV 431.
An analysis of the political forces, both private and public, which have an impact upon the health industry in the United States. Focusing on problems related to the delivery of health care, the course will cover such issues as availability, accessibility, appropriateness, acceptance, accounting, and alternatives. This course is also offered as POLS 405. (001587)

HCSV 438 Emergency Medical Services System Planning 3.0 Inquire

Prerequisites: HCSV 431 or equivalent or faculty permission.
This course will examine the emergency medical services (EMS) system as a vital component of the health care delivery system. Course work will focus on administration and planning of EMS systems. (004458)

HCSV 439 Administration of EMS Organizations 3.0 Inquire

Prerequisites: HCSV 330 or equivalent or faculty permission.
This course will apply management principles including marketing, financing, personnel issues, and quality management to organizations within the emergency medical services system (e.g., ambulance services, trauma centers). (004459)

HCSV 443 Social Gerontology 3.0 Spring

Studies the changes people face as they age in modern society, as individual social beings and as members of a larger society; how social change (economic, political, technological) affects older people in their aging patterns; emphasis is on the social aspects of problems and prospects for America's elders. (001571)

HCSV 450 Health Education for Elementary School Teachers 3.0 Fa/Spr

Addresses major health issues affecting the child, including, but not limited to, health promotion and disease prevention, nutrition, substance use and abuse, and sexuality. Overview of health instruction framework for California public schools. Fulfills the state health education requirement for a preliminary teaching credential. (004393)

HCSV 451 Health Education for Secondary School Teachers 3.0 Fa/Spr

Addresses major health issues affecting the adolescent, including, but not limited to, health promotion and disease prevention, nutrition, substance use and abuse, and sexuality. Fulfills the state health education requirement for a preliminary teaching credential. (004394)

HCSV 462 School Health Programs 3.0 Fa/Spr

Prerequisites: HCSV 369 recommended.
Philosophical framework, organization, administration, and legal aspects of the school health program. Development of prevention and intervention strategies for major health problems affecting K-12 students, with emphasis on cultural sensitivity, at-risk youth, and community/school partnerships. (004466)

HCSV 463 Epidemiology 3.0 Fall

Prerequisites: MATH 105. Recommended: HCSV 320.
Study of the patterns of the major chronic and infectious diseases. Both individual- and population-based approaches to prevention and control will be examined. (001607)

HCSV 464 Health Communication Programming 3.0 Inquire

Prerequisites: HCSV 260, HCSV 321.
An examination of social marketing, health behavior, and mass communication models to inform, influence, and motivate audiences to change health behavior. Students learn about health communication programs that reinforce health knowledge, attitudes, and behavior, and those that market health services. Students develop a local health communication program to support individual or collective action. (001580)

HCSV 465 Sexuality Education: Concepts and Issues 3.0 Inquire

Prerequisites: BIOL 104.
Survey of issues relating to human sexuality, including gender, sexual response, societal and individual value systems, sexual orientation, cross-cultural comparisons, reproduction, and disease prevention. Analysis of sexuality education principles, programs, national and state guidelines, and controversial issues. Exploration of personal values and skills related to sexuality education. (001609)

HCSV 467 Mental and Emotional Health 3.0 Spring

Examination of nature and factors affecting mental health and positive and negative responses to problems in daily living. Discussion of types of mental disorders and public health strategies to deal with these problems. (001611)

HCSV 468 Occupational Health and Safety 3.0 Inquire

Examines the nature, extent, and significance of work-related illnesses and accidents. Discusses the cause and prevention of occupational health problems and the influence of economic and political factors. The role of government, management, and the employee in protecting workers' health is discussed. Analyzes corporate and worksite health promotion programs. (001612)

HCSV 470 Drug Prevention and Intervention 3.0 Inquire

Prerequisites: BIOL 104.
Designed for those who plan a career in health and community services. Explores models of drug use, abuse, and addiction and psychological, cultural, and economic determinants. Examines the history and current status of major prevention and intervention efforts to reduce tobacco, alcohol, and illicit and prescription drug abuse. Students evaluate the leading drug prevention and intervention models used in school and community settings. (001610)

HCSV 471 Health Education Planning: Theory and Practice 3.0 Fall

Prerequisites: HCSV 321 or faculty permission.
Examines theory and methods to facilitate individual and group behavior change to promote health and reduce risks of premature morbidity and mortality. Concepts in the behavioral sciences affecting health behavior, motivation, decision-making, and risk-taking are explored. Students will develop program planning and evaluation skills. (001615)

HCSV 472 Health of the Athlete 3.0 Inquire

Study of health behaviors that impact upon the health and performance of athletes of all ages, elementary school to adult. Topics include stress management, drug misuse and abuse, management of chronic health problems, high-performance eating, first aid and prevention of injuries, ergogenic aids, problems specific to female athletes, and health counseling techniques. Focus on skills and strategies needed to protect and promote athletes' health. (004462)

HCSV 489 Internship 3.0-11.0 Fa/Spr

Prerequisites: Concurrent enrollment in HCSV 490, senior standing, minimum 2.0 GPA in the major at CSU, Chico, faculty permission.
Field practicum designed to integrate theory and practice in a community setting. Supervised by an agency representative and faculty member. Minimum internship requirement for Health Science majors is 5.0 units. You may take this course more than once for a maximum of 15.0 units. Credit/no credit grading only. (004467)

HCSV 490 Internship Seminar 1.0 Fa/Spr

Prerequisites: Concurrent enrollment in HCSV 489.
Integration of previous learning with realities of professional practice in the internship placement. Credit/no credit grading only. (001620)

HCSV 498 Special Topics 1.0-4.0 Fa/Spr

This course is for special topics offered for 1.0-4.0 units. Typically the topic is offered on a one-time-only basis and may vary from term to term and be different for different sections. See the Class Schedule for the specific topic being offered. (001622)

HCSV 499H Honors in Health and Community Services 3.0 Fa/Spr

Prerequisites: Four upper-division courses in the major, including HCSV 425. Open only by invitation to majors.
The student will define a research problem, develop a research proposal, conduct the research, and submit a written report on the project. The student will refine the paper into publishable form and make a public presentation. Completion of 6 units with a B or higher certifies "Honors in the Major" on transcript. (004470)

HCSV 530 Health Services Administration Capstone Seminar 3.0 Spring

Prerequisites: HCSV 330 and HCSV 431, or faculty permission.
Integration of theory and practice by examining issues and solutions to problems in the management and planning of health care services. Emphasis upon case studies and practitioner responses. (001596)

HCSV 541 Health in the Later Years 3.0 Fall

Exploration of changing health status and needs in later life. Discussion of body system changes, bio-psycho-social influences on elders' health, health enhancement strategies, common health problems, treatment, and prevention. Also addresses drug use and abuse, sexuality, chronic illness, use of health delivery systems, including long-term care. (001569)

HCSV 579 Grant Writing and Other Fundraising Strategies 3.0 Fa/Spr

Knowledge and skill development in writing grant proposals for health and community services. Skills in researching government, foundation, and corporate funding opportunities. Diversifying nonprofit income through other fundraising strategies. (001618)

HCSV 652 Legal and Ethical Issues in Health and Human Services 3.0 Spring

A seminar providing an integrative analysis of ethical and legal forces in the environment of health and human services as they relate to health and human services organizations' behavior and management decision making. This course is also offered as POLS 652. (004471)

HCSV 663 Seminar in Health and Human Services 3.0 Fa/Spr

Survey of problems, issues, and applications of management theory to health and human service organizations. Emphasis will be on administrative problem-solving, finance and budgeting, and marketing. This course is also offered as POLS 663. (004473)

Health Science

HCSV 664 Seminar in Public Policy in Health and Human Services 3.0 Fall

A graduate seminar which focuses on initiation, formulation, implementation, and evaluation of Health and Human Services policies. An exploration of policy development, policy analysis approaches, and new policy directions. This course will focus on how to develop a policy issue paper, including how to identify values, develop alternatives, and make policy recommendations. Health and Human Services policy will be explored at the national, state, and local levels, including the public, private non-profit, and profit-making sectors. Health policies of other nations will be examined for their implications for American Health and Human Services policy. You may take this course more than once for a maximum of 6.0 units. (004474)

HCSV 665 Economic and Global Finance Issues in Health 3.0 Spring

Prerequisites: POLS 660C, POLS 664.

An examination of the health care industry in relation to health financing, insurance, grants, contracting, and resource allocation as they relate to management decision making in health and human service organizations. This course is also offered as POLS 665. (004475)

HCSV 689 Internship 1.0-3.0 Inquire

Prerequisites: Faculty permission.

Work in selected public and quasi-public agencies. You may take this course more than once for a maximum of 15.0 units. Credit/no credit grading only. (004476)

HCSV 697 Independent Study 1.0-3.0 Fa/Spr

Prerequisites: Faculty permission.

This course is a graduate-level independent study offered for 1.0-3.0 units. You must register directly with a supervising faculty member. You may take this course more than once for a maximum of 6.0 units. (004478)

HCSV 699P Master's Project 1.0-3.0 Fa/Spr

This course is offered for 1.0-3.0 units. You must register directly with a supervising faculty member. You may take this course more than once for a maximum of 6.0 units. (004482)

HCSV 699T Master's Thesis 1.0-6.0 Fa/Spr

This course is offered for 1.0-6.0 units. You must register directly with a supervising faculty member. You may take this course more than once for a maximum of 6.0 units. (004479)

