

1-1-2004

School of Public Health (Master of Public Health, Doctor of Public Health) Catalog 2004-2005

School of Public Health

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School of Public Health, "School of Public Health (Master of Public Health, Doctor of Public Health) Catalog 2004-2005" (2004).
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UNIVERSITY of NORTH TEXAS HEALTH SCIENCE CENTER *at Fort Worth*

School of Public Health 2004-2005 Catalog

This catalog is an official bulletin of the University of North Texas Health Science Center School of Public Health and is intended to provide general information. It contains policies, regulations, procedures and fees in effect as of August 16, 2004.

The health science center reserves the right to make changes at any time to reflect current board policies, administrative regulations and procedures, amendments by state law and fee changes. Information provided by this catalog is subject to change without notice and does not constitute a contract between the University of North Texas Health Science Center and a student or an applicant for admission. The institution is not responsible for any misrepresentation or provisions that might arise as a result of errors in preparation.

Students are responsible for observing the regulations contained herein; therefore, they are urged to read this catalog carefully. This catalog does not contain all institutional rules, regulations, and policies for which a student is responsible. Students should also consult the Student Handbook located on the web at www.hsc.unt.edu.

The health science center reserves the right to withdraw a student for cause at any time.

The University of North Texas Health Science Center at Fort Worth is an equal opportunity/affirmative action institution. It is the policy of the health science center not to discriminate on the basis of race, color, religion, sex, age, national origin, disability, or disabled veteran or veteran of the Vietnam era in its educational programs, activities, admissions or employment policies. Questions or complaints should be directed to the Equal Opportunity Office, 817-735-2357.

In compliance with the Clery Act, crime statistics for the University of North Texas Health Science Center are available on the web at <http://www.hsc.unt.edu/cleryact>.



UNIVERSITY of NORTH TEXAS HEALTH SCIENCE CENTER *at Fort Worth*



Education, Research, Patient Care *and* Service

Dean's Message

Choosing a career is an important and exciting prospect, and I am delighted that you are considering a public health education at the University of North Texas Health Science Center School of Public Health. As you may know, public health differs from many of the other health professions in several ways.

First, public health is not directed at individuals but at entire populations. Whereas many health workers are trained to treat disease or health problems that have already occurred, public health workers focus their efforts and training on preventing these problems from occurring and/or intervening as soon as possible so as to reduce their consequences on the population at large.

Second, public health is not a discipline but a field of practice that utilizes the skills and training of numerous health professions. For example, the membership of the American Public Health Association, the oldest and largest society of public health workers in the world, consists of individuals who represent seventy-seven different disciplines. What unites public health workers are their interest, education, and commitment to promote health and prevent disease.

Public health endeavors have been very successful. For example, historically, research has clearly demonstrated that the tremendous advances in longevity of life have had more to do with improvements in public health than in advances in medicine and other disciplines. In 1900, the average life expectancy of Americans was fewer than fifty years; in 1990 that life expectancy had climbed to more than seventy-five years. This increase is attributed primarily to improvements in sanitation and working conditions as well as the control of infectious diseases through immunizations and other public health interventions. Population-based prevention programs launched since the 1970s are also largely responsible for the more recent changes in tobacco use, blood pressure control, certain dietary practices, and injury control measures, which have variously fostered declines of more than 50 percent in death due to strokes, 40 percent in death due to coronary heart disease, and 25 percent in overall death rates for children.

Numerous health disciplines offer the satisfaction derived from the provision of direct patient care. Public health is unique among the health fields in that it offers the opportunity to have a major impact on the health of whole populations. Public health is a profession where you can indeed make the world a better place to live for the present population as well as for generations of individuals yet to come.

Our faculty, students, and staff are committed to providing the highest quality of public health education and research, meeting the needs of the working professional, and assuring that our state and nation address the public health needs of our diverse populations.



A stylized signature or logo consisting of several overlapping loops and a long horizontal line extending to the right.

Fernando M. Treviño, Ph.D., M.P.H.
 Dean and Professor
 School of Public Health

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Accreditation

The University of North Texas Health Science Center at Fort Worth is approved by the Texas Higher Education Coordinating Board and is a member of the Alliance for Higher Education, the Association of Academic Health Centers, the Council for the Advancement and Support of Education, and Council of Graduate Schools. The University of North Texas Health Science Center at Fort Worth is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097; telephone number 404-679-4501) to award master’s and doctoral degrees.

The University of North Texas Health Science Center School of Public Health is accredited by the Council on Education for Public Health (C.E.P.H.), 800 Eye Street NW, Suite 202, Washington, D.C. 20001-3710; telephone number 202-789-1050.

For further information regarding the institution’s accreditations and state approval or to review related documents, contact the Office of Educational Affairs, 817-735-2510.

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What is Public Health?

Is public health right for me? This is the question many students ask themselves when entering the field of public health. However, before most can make that decision, they first have to research what is public health and who is a public health professional. Public health professionals work with entire communities to prevent disease and to promote health. In contrast, doctors and physicians more often treat individual patients. Public health professionals monitor and evaluate the health needs of entire communities, promote healthy practices and behaviors, and work to identify and eliminate hazards, often environmental or occupational in nature, to assure that populations stay healthy.

Did you know?

According to a recent poll, few Americans know what the words “public health” mean. However, most people believe that many key functions of public health are very important. For example:

- 93 percent of all adults believe that the prevention of the spread of infectious diseases like tuberculosis, measles, flu, and AIDS is very important;
- 90 percent believe immunization to prevent diseases is very important;
- 82 percent believe that ensuring people are not exposed to unsafe water, air pollution or toxic waste is very important;
- 82 percent also believe conducting research into the causes and prevention of diseases is very important; and
- 72 percent believe it is very important to encourage people to live healthy lifestyles.

The 19th century public health “professional” was more likely to be a volunteer social worker than a skilled health practitioner. Twentieth-century technological advances have changed the situation. Today’s public health workforce includes physicians, nurses, nutritionist, epidemiologists, environmentalists, health administrators, community health educators, environmental and occupational health specialists, biostatisticians, and a host of other specialists. Despite their various fields of specialization, each is committed to protecting the health of the public. Schools of public health have to face the challenge of educating students to perform the duties with efficiency and skill and to understand and work with colleagues from virtually every area of the biomedical, social and behavioral sciences.

Consider these facts...

- During the first year of life, African-American infants are more than twice as likely to die as white infants.
- Most hazardous waste sites in the U.S. are within a few miles of disadvantaged communities whose populations report a disproportionate share of their toxic effects.
- The prevalence of diabetes for persons 45 to 74 years of age is twice as high for Mexican-Americans and Puerto Ricans as for non-Hispanic whites.
- More than 35 million Americans do not have health insurance or access to adequate health care.

So, how can you make a difference?

- By promoting health and preventing diseases that all too often disproportionately affect disadvantaged and underserved populations;
- By contributing your specialized knowledge, skills, cultural sensitivity and cultural competency to help break the cycle of these adverse health effects which continue to limit the potential of individual achievement and the future well-being of our society; and
- By becoming a leader in one of the five major areas of public health: administration/management, research, education, community practice, or policy.

Careers in public health provide opportunities for upward and lateral career mobility depending on your training and interests. Graduates from schools of public health work primarily in the areas of health promotion and disease prevention. Vast employment opportunities are available at federal, state and local levels, particularly in health and environmental agencies. Additional employment options include private industry, universities, volunteer health organizations, insurance companies and managed care organizations. You can make a difference with a graduate degree in public health. Ultimately, the career heights to which you may aspire are as great as your capabilities and your desires.

2004-2005 Academic Calendar

	Fall	Spring	Summer
	2004	2005	2005
ADMISSIONS			
Application deadline All application materials must be submitted for consideration; internationals students should apply 6 months prior to enrollment (Fall 2005 Application Deadline: April 1, 2005)	Feb 15	Sept 1	Feb 1
New Student Orientation Mandatory for all new students	Aug 11	Jan 5	May 25
New Student Orientation Mandatory for all new international students	Aug 12	Jan 6	May 26
REGISTRATION			
Regular registration	July 19-30	Nov 18-Dec 3	April 25-May 6
Late registration During this period, a student is assessed a \$25 late registration fee.	Aug 2-6	Dec 6-10	May 9-13
New student registration	Aug 11	Jan 5	May 25
IMPORTANT CLASS DAYS			
Classes begin	Aug 16	Jan 10	May 31
4th class day/12th class day	Aug 31	Jan 25	June 3
Mid-point	Oct 15	March 11	July 1
60% Point	Oct 28	March 24	July 8
Last day of classes	Dec 3	April 29	July 29
Final examinations begin	Dec 6	May 2	Aug 1
Final examinations end	Dec 10	May 6	Aug 5
Last day of the semester	Dec 10	May 6	Aug 5
Grades Due	Dec 17	May 13	Aug 10
SCHEDULE CHANGES			
Last day to ADD a course Student must have registered initially during regular or late registration period.	Aug 20	Jan 14	June 3
Last day to DROP a course without the course appearing on the student's transcript. If enrollment is maintained in at least one other course, the student will receive a refund of eligible tuition/fees. If all courses are dropped, refer to the withdrawal refund schedule.	Aug 31	Jan 25	June 3
Beginning this date, students must complete the Instructor Approval to Drop Form to DROP a course. To drop all coursework, students must contact the Registrar's Office to complete the appropriate paperwork.	Sept 1	Jan 26	June 6
Last day to DROP a course or	Sep 10	Feb 4	June 10

withdraw from UNTHSC with a grade of W for courses that a student is not passing. After this date, a grade of WF may be recorded.			
Beginning this date, instructors may DROP students with a grade of WF for non-attendance.	Sep 13	Feb 7	June 3
Last day to DROP a course with consent of the instructor.	Dec 3	April 29	July 29
First day a student may request a grade of incomplete	Nov 4	March 21	July 11
Last day a student may request a grade of incomplete	Dec 10	May 6	Aug 5
Last day to withdraw from the health science center. Process must be completed by 5 p.m. in the Registrar's Office.	Dec 3	April 29	July 29
TUITION/FEE PAYMENTS AND COURSE REFUNDS (This only applies if the student drops a course(s) but remains enrolled in at least one course.)			
Financial Aid Disbursement	Aug 11	Jan 5	June 1
Returning Students: Last day to pay tuition and fees without a penalty	Aug 13	Jan 7	May 27
Returning Students: Last day to pay tuition and fees with a \$15 late fee	Aug 31	Jan 25	June 3
New Students: Last day to pay tuition and fees without a penalty	Aug 20	Jan 14	June 2
New Students: Last day to pay tuition and fees with a \$15 late fee	Aug 31	Jan 25	June 3
Beginning this date, all students will be dropped from courses for non-payment of tuition and fees	Sept 1	Jan 26	June 6
Students may petition to the Vice President of Student Affairs for reinstatement of registration with a \$250 reinstatement fee	Sept 2-8	Jan 27-Feb 2	June 7-10
Last day to receive a refund for any dropped course(s). Student must maintain enrollment in at least one course.	Aug 31	Jan 25	June 3
WITHDRAWAL REFUNDS (This only applies if the student is dropping all courses.)			
Last day to withdraw for a 100% refund	Aug 13	Jan 7	May 27
Last day to withdraw for an 80% refund	Aug 20	Jan 14	June 3
Last day to withdraw for a 70% refund	Aug 27	Jan 21	N/A
Last day to withdraw for a 50% refund	Sept 3	Jan 28	June 10
Last day to withdraw for a 25% refund	Sept 10	Feb 4	N/A
GRADUATION			
Last day to file Intent to Graduate	Sept 13	Feb 7	June 13

Last day to defend/present thesis, dissertation, or professional report to Graduate Committee and submit FINAL DRAFT to SPH Office of Admissions & Student Services for format review. See graduation guidelines for more detailed information.	Nov 1	April 4	June 27
Last day for degree candidates to complete and submit all requirements for graduation to SPH Office of Admissions & Student Services: <ul style="list-style-type: none"> ▪ File signed copies of thesis, dissertation, or professional report ▪ Pay all graduation fees ▪ Submit Graduation Clearance Form, Degree Candidate Information Form, UMI Microfilm Agreement, Graduating Student Survey, and Survey of Earned Doctorate (DrPH only) ▪ Remove grades of "I" in all courses required for degree. 	Nov 22	April 25	July 18
Commencement	May 21, 2005	May 21, 2005	May 20, 2006
HOLIDAYS/SPECIAL EVENTS (*Due to unforeseen scheduling conflicts, these dates may be subject to change.)			
Labor Day	Sept 6		
Ranchland	Aug 20		
Convocation & White Coat Ceremony (New students are strongly encouraged to attend)	Sept 17		
5th Anniversary Celebration	Dec 3		
Fall Career Fair*	Oct 14		
American Public Health Association Conference	Nov 6-10 (Washington, D.C.)		
Thanksgiving	Nov 25-26		
Winter break begins	Dec 13		
Winter break ends		Jan 7	
Martin Luther King Jr. Holiday		Jan 17	
Spring Career Forum*		March 3	
Spring Break		March 14-18	
Spring Fling*		March 24-25	
Public Health Week		April 4-10	
Research Appreciation Day		April 8	
Texas Public Health Association Conference		April 22-26 (Odessa)	
Awards Banquet*		May 6	
Memorial Day			May 30
Independence Day			July 4
Graduating Students' Reception*	Dec 9	May 13	Aug 4

Our Mission

The University of North Texas Health Science Center at Fort Worth, a component institution of the UNT System, is dedicated to excellence in education, research, healthcare and service.

We achieve this mission by:

- Preparing our students in osteopathic medicine, biomedical sciences, public health and physician assistant studies for successful careers in health care, research, and teaching.
- Advancing the discovery of knowledge through cutting-edge basic and applied research. Teaching, practicing, and encouraging the effective delivery of primary health care.
- Emphasizing health promotion, disease prevention, and public health, with a focus on underserved populations.
- Actively collaborating with other academic institutions, such as other components of the UNT System, health-related organizations, and the communities we serve.
- Supporting a culturally diverse environment that advocates mutual respect for all members of the health science center as they strive for excellence.
- Meeting and exceeding the needs and expectations of our students, patients, employees, partners, donors, and the people of Texas.

School of Public Health Mission

The School of Public Health is dedicated to the prevention of disease and the promotion of health in the local and global community through education, research and service.

The School of Public Health achieves its mission by:

- Preparing its graduates to effectively contribute to the practice of public health
- Providing accessible educational programs
- Valuing the importance of diversity in public health practice and research
- Supporting closer integration between the practice of medicine and public health
- Developing academic and community partnerships

Principles

The interactions and communications among faculty, staff, and students of the School of Public Health are guided by a belief in, and demonstration of:

- Diversity
- Fairness
- Honesty
- Integrity
- Responsiveness
- Quality
- Respect
- Collegiality
- Dignity

1 The Health Science Center

Overview

The University of North Texas Health Science Center is one of the country's distinguished academic medical centers, dedicated to the advancement of all three disciplines of medical science — education, research and patient care.

Our 15-acre, \$150 million medical complex is located in Fort Worth's acclaimed Cultural District.

The health science center's academic components are the Texas College of Osteopathic Medicine, Graduate School of Biomedical Sciences, School of Public Health, and Physician Assistant Studies Program. More than 190 full-time faculty and 300 volunteer community physicians work with 1,000 students who are training to be osteopathic physicians, researchers, public health officers, physician assistants and other health professionals.

TCOM, founded in 1970, is Texas' only college of osteopathic medicine and one of only 20 in the country. Roughly three-fourths of TCOM alumni practice primary care, such as family medicine, internal medicine, obstetrics/gynecology and pediatrics. This is the highest proportion among the state's eight medical schools and one of the highest in the country. TCOM's commitment to primary care has been recognized by *U.S. News & World Report* and the Texas Academy of Family Physicians. TCOM's Physician Assistant Studies Program offers a master's degree in Physician Assistant Studies, one of the first PA programs to elevate its degree for these mid-level medical professionals to the master's level.

The graduate school offers master's and doctoral degrees in the biomedical sciences, with disciplines in anatomy and cell biology, biochemistry and molecular biology, biomedical sciences, biotechnology, integrative physiology, microbiology and immunology, and pharmacology. The school has been designated a Role Model institution by Minority Access, Inc. and the National Institutes of Health. It also received the 2001 Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring, administered through the National Science Foundation.

The School of Public Health is one of only 34 schools in the United States accredited by the Council on Education for Public Health. It offers master's and doctoral degrees in clinical research, epidemiology, biostatistics, social and behavioral science, health management and policy, environmental health, occupational health, health informatics, and health interpreting and health applied linguistics. Boasting the most culturally diverse faculty of any U.S. school of public health, it conducts ongoing research projects through its Center for Hispanic Health Research and coordinates numerous community intervention programs with the overall goal of improving the health status of Latinos.



With nearly \$15 million in research funding, the health science center boasts a highly productive cadre of internationally recognized biomedical scientists. The center's Institutes for Discovery conduct leading-edge research on select health issues, including vision, aging, cancer, heart disease, physical medicine, and public health. Leaders in the osteopathic medical profession selected the health science center as the home of the national Osteopathic Research Center to lead multi-center trials on the efficacy of manipulative treatment. Through these institutes, faculty researchers join with physicians, industry researchers and biomedical scientists from academic research institutions around the world to conduct multi-million dollar studies aimed at speeding the process of discovery through collaboration. The health science center is a founding partner in Fort Worth's medical and technology business incubator, Tech Fort Worth. The incubator helps launch new businesses in the biotechnology and high technology industries, taking discoveries from the lab into the marketplace while creating new jobs for the area.

Faculty members of the center's medical school comprise one of Tarrant County's largest multi-specialty medical group practices. These 100-plus doctors practice in 24 medical and surgical specialties and subspecialties. Our faculty physicians also lead numerous clinical research projects seeking improved treatments for such disorders as high blood pressure, diabetes and arthritis. The American Diabetes Association has recognized our Diabetes Center for its high standards of patient care and commitment to patient education.

With an endowed chair in clinical geriatrics and a nationally recognized geriatric education program, the health science center is a leader in finding solutions to the health needs of an aging society. The health science center was among the first to offer specialized medical training in geriatric care and conduct research into aging issues, including Alzheimer's disease. The health science center was also the first medical school in north Texas to establish a geriatric fellowship program that offers physicians and dentists advanced training in caring for elderly patients.

The health science center is home to one of the nation's leading DNA identity testing laboratories, providing state of the art results for paternity and crime scene evaluation. It is one of 17 highly specialized labs in the country able to analyze mitochondrial DNA. The DNA Identity Laboratory is also the home of the Texas Missing Persons DNA Database, a new tool to help law enforcement agencies solve missing persons cases and identify unknown human remains. The lab is the national repository for GeneLink, the first family-centered DNA storage bank and hereditary genetic information service established in 1995.

The health science center's Gibson D. Lewis Health Sciences Library is one of the most advanced medical libraries in the Southwest. Its staff led the effort to create OSTMED, a national index of osteopathic medical literature that contains nearly 30,000 records.

In keeping with its location in Fort Worth's Cultural District, the campus displays the work of local artists in a public art gallery and hosts the annual 12-county High School Art Competition.

Institute for Public Health Research (IPHR)

The Institute for Public Health Research, which was established in 2000 by the UNT Health Science Center's School of Public Health, addresses the health and health care needs of the local, state and global community through applied research, communication, and professional and community training. It provides specialized training, consulting, research and technical assistance to organizations and agencies that practice health care and public health.

The goal of the IPHR is to develop public health-related solutions for communities through academic/community partnerships with health departments, community organizations, health care delivery organizations, other health-related organizations and academic units within

universities.

Institute research scholars have expertise in several areas of public health including epidemiology, health management, health policy and law, environmental and occupational health, behavioral sciences, health education, community health and biostatistics.

The model guiding the institute's work emphasizes a collaborative approach to prevention research. IPHR research scholars, staff and students use an array of research methods, including intervention studies, evaluation research, field trials, and demonstration projects to affect changes in the health of targeted communities or population groups.

Center for Workforce Development and Public Health Leadership

The purpose of the Center for Workforce Development and Public Health Leadership is to facilitate the development of state public health training systems focused on improving the capacity of both the front line public health worker and the public health leadership to respond to current, new and emerging public health threats. The Center provides a continuum of accessible learning opportunities for public health workers throughout their careers. This Center is concerned with providing professional workforce development services to personnel at state and local health departments, community-based organizations and other entities charged to carry out public health programs in general. The program develops model public health practice curricula to support the vision of a competent workforce able to deliver the essential public health services. The Center programs are dedicated to meeting the state and regional leadership needs by developing and enhancing individual and organizational leadership and management for improving and promoting the health of communities. The Center provides a unique learning experience for a broad array of public health professionals and others who are integral to the development of healthy communities. Through the development of leadership skills and shared vision, the institutes and programs facilitate creative, integral, collaborative approaches to the achievement of public health core functions and essential public health services. The state/regional programs are developing an extensive network of public health leaders with an increased capacity to strengthen the relationship among public health practitioners, health care service providers, academia and communities. The research focus for the Center is in the area of leadership development and maintenance.

Center for Epidemiology and Disease Prevention Research

Members of the Center for Epidemiology and Disease Prevention Research conduct research that can ultimately serve as the basis for the development of disease prevention and public health initiatives. These include epidemiologic investigations of the occurrence of disease in human populations and evaluation studies of primary, secondary and tertiary prevention modalities. Members of the Center also collaborate with clinical researchers on the efficacy and risks associated with clinical, field and community intervention trials. In addition, the Center provides biostatistical and quantitative epidemiologic consulting services to the university community and to government, industrial and community agencies. These services include study, survey and experimental design, data analysis, theoretical and empirical data modeling, and assistance with the preparation of research proposals. Some examples of the research that members of the Center have previously conducted include epidemiologic studies of occupational cohorts, studies of nutrition and cancer, longitudinal studies of large populations and risks associated with environmental exposures.

Center for Occupational and Environmental Research and Training

The Center for Occupational and Environmental Health Research and Training is one of the core Centers within the Institute for Public Health Research. Participating faculty are drawn from the Divisions within the School of Public Health which include Occupational and Environmental Health, Epidemiology, Biostatistics, Social and Behavioral Sciences, and Health Management and Policy as well as faculty of the Graduate School of Biomedical Sciences and the Texas College of Osteopathic Medicine. The skills of other external colleagues (industrial hygienists, toxicologists, safety specialists, etc.) have also been enlisted as needed. The Center's activities emphasize both research and service. Research activities focus on characterizing the epidemiologic aspects and the exposure-response relationships of occupational and environmental health issues, illness and injury. Development and evaluation of occupational and environmental health surveillance models and strategies for prevention are also addressed. With the diverse background and expertise of the faculty and the wealth of community resources, many topics of research can be addressed and pursued. Service activities focus on recognizing community "customers" by offering occupational and environmental epidemiological consulting services to governmental agencies and private sector companies. Due to downsizing, employers often do not have the manpower to provide efficacy studies of internal processes for general future planning, for policy institution, or for preventive environmental interventions. Utilizing the expertise of the faculty and the availability of masters level public health graduate students, statistical and extrapolated epidemiological services can be offered to such community clients. Both the research and service activities provide avenues of practical, applicable research and training experiences for the Masters of Public Health students and as well as provide a doorway to collaborative efforts amongst fellow faculty members.

Center for Biostatistical Consulting

The Center provides accessible biostatistical consulting services to health science center faculty and students. The Center specializes in the development of data collection instruments, database design/management, statistical analysis of data, and the generation of specialized reports of data analysis results. The Center also offers consultation to faculty and students on statistical issues such as modeling and randomization schemes. Complex statistical issues are addressed by a faculty level consult.

The goal of this Center is to foster collaborative efforts across the health science center, as databases become a shared resource, and to provide faculty and students with more time to devote to research methodology, grant writing and publishing.

Center for Health Management and Policy Research

The Center for Health Management and Policy Research conducts sponsored health services research and policy analyses on complex health policy issues. It is located within the School of Public Health. The Center identifies, monitors, and analyzes emerging issues in international, federal, and state health law and policy and evaluates the effects of changing policies on health care access, quality, and cost. Research projects are conducted and overseen by an interdisciplinary faculty and staff who combine formal academic training with a variety of professional backgrounds in law, government, economics, politics, management, and medicine. Projects are carried out both alone and in collaboration with various entities such as other

university research centers; departments within the University's medical and public health schools; and other policy and research analysis organizations throughout the country. Results of research are disseminated broadly to promote educational and service objectives.

Center for Cross-Cultural and Community Health Research

This research center provides a forum for faculty and students interested in interdisciplinary investigations of the socioeconomic, cultural, behavioral, and biological determinants of U.S. racial and ethnic group differences in health status. Developing theoretical and applied perspectives appropriate for an increasingly multi-ethnic, multi-cultural society is an important educational objective of this center. The Center assists the community in identifying problems and needed interventions; mobilizing community resources and assets; and implementing, evaluating, strengthening, sustaining, and disseminating health promotion and disease prevention activities. Through the development of innovative and culturally relevant research, new models of community organization and participatory research appropriate for effective health practice can be identified and evaluated. Located in the School of Public Health, the Center serves the entire university as an outreach mechanism for community-based health initiatives.

The UNT Health Science Center Institutes for Discovery

Cardiovascular Research Institute (CRI)

The Cardiovascular Research Institute, established in 1995, promotes basic and clinical research, education, patient care and community outreach in the prevention, detection, diagnosis and treatment of cardiovascular disease and stroke. The CRI is directly involved in the adaptation of intellectual property to meet the needs of the medical community, including the development of pharmaceuticals, biotechnology, medical devices and the rehabilitation of victims of stroke.

A Ph.D. degree in integrative physiology is offered through the Graduate School of Biomedical Sciences. Predoctoral and postdoctoral students receive advanced training in entrepreneurial research development through the CRI, along with studies and research through the Department of Integrative Physiology.

Institute for Aging and Alzheimer's Disease Research (IAADR)

The Institute for Aging and Alzheimer's Disease Research was established in August 2000 under the directorship of Dr. James W. Simpkins, an internationally recognized researcher in Alzheimer's and neurodegenerative diseases. The institute promotes basic and clinical research, focusing on early detection of Alzheimer's disease, estrogen replacement therapy for Alzheimer's disease and Parkinson's disease, estrogen and stroke therapy and identification and characterization of the oxidative process to measure the rate of aging.

The institute serves as a focal point for interaction with private-sector biotechnology and pharmaceutical companies with interest in neurological disorders. A biweekly seminar series is co-sponsored by the institute and the Department of Pharmacology and Neuroscience. The institute's activities also include supporting educational and health promotion programs within

the community that encourage physical, psychological and social well-being.

Institute for Cancer Research (ICR)

The Institute for Cancer Research serves as the focus for academic leadership in all aspects of cancer research and education within the UNT Health Science Center, as well as for Fort Worth and the North Texas area. The institute serves as the focal point and coordinating organization for cancer-related educational activities at the health science center at the predoctoral, postdoctoral, undergraduate and continuing education levels.

The institute's scope includes, but is not limited to, various aspects of basic and translational research. Institute activities emphasize cancer prevention and control, molecular diagnostics, clinical investigations, and cancer diagnosis and therapy. Basic and translational research areas include cell biology, biochemistry, molecular biology, gene therapy, progression, invasion, angiogenesis/vasculature, metastasis, immunology and experimental therapeutics.

The institute serves as a focal point for interactions with private-sector biotechnology and pharmaceutical companies with interests in cancer.

North Texas Eye Research Institute (NTERI)

The North Texas Eye Research Institute was formed in 1992 to serve as an academic and research focus for basic and clinical science activities within the visual science community of Fort Worth and North Texas.

Institute faculty members are multidisciplinary basic and clinical scientists who have primary appointments at the health science center, private practice or industry. They are heavily involved in the training of medical students, graduate students and postdoctoral fellows. Their research programs cover aspects of eye disease such as retinal degenerations, glaucoma, diabetic complications, aging and cataracts.

The institute sponsors a monthly Distinguished Visual Scientist Seminar Series, a weekly journal club and continuing medical education courses for health professionals. Institute faculty also conduct clinical trials for testing the safety and efficacy of various therapeutic drugs and devices.

Physical Medicine Institute (PMI)

The Physical Medicine Institute, established in 1998, promotes basic and clinical research, education, clinical practice and community outreach programs in the prevention, diagnosis, treatment and rehabilitation of neuromusculoskeletal disease of human beings of all ages.

The institute is a multi-disciplinary organization composed of basic and clinical science professionals whose interests and work deal with neuromusculoskeletal physiology and pathophysiology. Emphasis is on education, clinical service and research in osteopathic manipulative medicine.

Objectives of the institute include: development of a broad, universally accessible literature database related to osteopathic manipulative medicine and neuromusculoskeletal medicine; education of students, physicians, researchers and the community; provision of state-of-the-art clinical services in osteopathic manipulative medicine and neuromusculoskeletal medicine; development of an international, interdisciplinary taxonomy of manual medicine techniques; and development and publication of clinical and basic science research into the mechanism of action and clinical efficacy of osteopathic manipulative treatment of neuromusculoskeletal disease.

2 Master of Public Health

The goal of the Master of Public Health (M.P.H.) program is to prepare students to be effective public health professionals. Public health professionals work in a variety of organizations and agencies to contribute the common aim of promoting and protecting health in human populations. Students in the M.P.H. program elect a concentration in one of eight areas. The areas of concentration include biostatistics, community health, environmental health, epidemiology, clinical research, health informatics, occupational health, health management and policy, and health interpreting and health applied linguistics. The M.P.H. concentration in environmental health is a cooperative program with the University of North Texas (UNT) at Denton and has been designed to utilize existing courses and program resources at both UNT and the School of Public Health. Courses offered at UNT are marked with an asterisk (*) throughout this chapter.

Admissions & Curriculum

An application for admissions can be obtained from the School of Public Health by writing to or emailing:

School of Public Health
UNT Health Science Center at Fort Worth
3500 Camp Bowie Boulevard
Fort Worth, Texas 76107-2699
sph@hsc.unt.edu
Or on the Web at: www.hsc.unt.edu

The School of Public Health admits students in the Fall, Spring, and Summer semesters. The application deadlines are as follows:

Spring 2005 – September 1, 2004

Summer 2005 – February 1, 2005

Fall 2005 – April 1, 2005

International students are encouraged to apply for admissions at least six (6) months prior to the semester they wish to enter.

Applicants applying for the first time to the School of Public Health must pay a non-refundable application fee: \$25 for U.S. citizens; \$75 for non-U.S. citizens and permanent residents (\$25 application fee and \$50 educational records evaluation fee). The fee must be paid in U.S. currency. The application fee is valid for one year from the application date.

Applicants to the Master of Public Health (M.P.H.) program will fall under one of the following admissions statuses:

1. Full Admission: Accepted without reservations to the M.P.H. program
2. Non-Degree Admission: Accepted to take courses offered at the School of Public Health with no intent on seeking full admission status. A maximum of 12 SCH are allowed while in this status.
3. Denied: Not admitted to the program because application was not competitive.
4. Non-Review: Not reviewed due to an incomplete application file or other administrative reason.

General Admissions Requirements

1. The applicant must hold a minimum of a bachelor's degree or its equivalent from a regionally or federally accredited institution.
2. The applicant must designate on the application and reference in their Statement of Goals the area of study they wish to pursue within the M.P.H. program.
3. The applicant must provide official transcripts documenting their GPA on all undergraduate and post-graduate work.
4. All students seeking admission to a graduate degree program are required to take and submit scores for the Graduate Record Examination (GRE). Applicants to the Department of Health Management and Policy may substitute the GMAT for the GRE. Applicants who are also applying to TCOM may substitute the MCAT for the GRE. Only official score reports from the Educational Testing Service (ETS) are acceptable. Our (ETS) institutional code is 6565.
5. The health science center requires an applicant from a foreign country to demonstrate satisfactory proficiency in oral and written English before being granted admission.
6. To be considered for admission, the applicant must file the following official credentials with the School of Public Health Office of Student Services and Academic Affairs:
 - An application for admission to the School of Public Health
 - Application fee
 - Complete official transcripts from all colleges or universities attended
 - Official scores from all required entrance exams or tests (may include one or more of the following: GRE, GMAT, MCAT, etc.)
 - Two letters of evaluation by individuals in a position to comment on the applicant's potential as a student and future professional
 - A written statement of personal career goals
 - A current curriculum vita or resume
7. Students applying to the health interpreting and health applied linguistics (HIHAL) concentration need to submit additional information including:
 - 2-3 page essay in Spanish discussing past experiences/background and how they relate to the applicant's desire to pursue the HIHAL concentration.
 - 2-3 page essay in English discussing language barriers in healthcare in the United States and the applicant's views on developing a solution to this problem.
 - The two required letters of recommendations should be from previous employers or professors who are in a position to comment specifically on the applicant's potential as a student in health interpreting and health applied linguistics.
 - Once the above admissions materials are received, potential HIHAL students will be required to participate in language-proficiency testing in English and Spanish.

Admission Requirements for International Students

For international students transferring from a U.S. college or university, they must meet all School of Public Health transfer admission requirements. Specific requirements are detailed below. The health science center will not issue immigration papers for student visas until all admission credentials have been received and approved. A \$75 (U.S.) application and transcript evaluation fee is required and must be submitted with the application for admission. This fee is subject to change at any time. Applicants who are graduates of foreign colleges or universities

must present the following documents for application:

- Application forms for admission to the School of Public Health accompanied by \$75 (U.S.) application and transcript evaluation fee.
- Official reports from Educational Testing Service (ETS) on the Graduate Record Examination (GRE). Scores should be reported using institutional code 6565.
- Official reports from ETS showing a minimum score of 550 on the written Test of English as a Foreign Language (TOEFL), a score of 213 on the computer version of the TOEFL, or evidence of successful completion of a non-credit intensive course in English. Scores should be reported using institutional code 6565.
- Official transcripts from each college or university attended both in English and the native language.
- Proof of financial resources available, filed with application for admission
- Two letters of evaluation by individuals in a position to comment on the applicant's potential as a public health student and future professional.
- Written statement of personal career goals
- A current curriculum vitae or resume

Admissions Decisions/Deferments

Applicants will be furnished written notification regarding their admission status by the School of Public Health's Office of Student Services and Academic Affairs. Statements by other health science center personnel concerning the applicant's admissibility are not valid until confirmed in writing by the School of Public Health Office of Student Services and Academic Affairs.

Students who are admitted to a degree program and do not intend to enroll in the semester for which they applied must contact the School of Public Health Office of Student Services and Academic Affairs to request deferment. Deferments must be made in writing and cannot exceed one year from the original acceptance date. There is a deferment fee of \$100; the deferment fee is due at the time the request is made.

An applicant desiring to pursue graduate work in any concentration whose undergraduate record does not show completion of the course prerequisites to this concentration will be required to make up such deficiencies in a manner prescribed by the student's academic advisor with approval by the appropriate department chair prior to or concurrently with admission.

Information submitted in the application materials must be complete and correct. Prospective and current students must notify the proper institution officials regarding any changes in the information provided on their application. Falsification or omission of any information on the application documents will void a student's admission, cancel their enrollment, and/or result in appropriate disciplinary action. All materials submitted in the application become the property of UNT Health Science Center and cannot be returned.

Academic Procedures

Each student is responsible for the completion of the Master of Public Health program according to the procedures that follow. Each item must be completed in the sequence and time period indicated. Forms are subject to revision at any time and should be obtained from the School of Public Health Office of Student Services and Academic Affairs.

1. Acceptance into the School of Public Health and an advisor is assigned.

2. The student must file a degree plan approved by the advisor and department chair with the School of Public Health Office of Student Services and Academic Affairs before the completion of the first semester of enrollment. Enrollment will be restricted after the first semester if a degree plan is not on file.
3. Students must complete a public health practice experience. Students are eligible to enroll for Public Health Practice Experience (SPH 5850) after the completion of a minimum of 21 SCH, 6 SCH of which must be in their concentration area. Students must confer with the Public Health Practice Coordinator prior to registration.
4. Prior to enrolling in thesis or professional report, a student must complete a minimum of 36 credit hours and gain consent from a major professor to supervise the culminating experience. The major professor must be a full time faculty member within the student's concentration department; the major professor does not have to be the student's advisor. The student must subsequently select a faculty committee. The faculty committee will consist of a major professor and a minimum of two committee members. Committee members must have faculty or adjunct faculty status with the School of Public Health. Students should contact the appropriate department regarding individuals with adjunct faculty status.
5. Prior to the semester the student enrolls in thesis (SPH 5950) or professional report (SPH 5900), a student must write and present the proposal for the culminating project to the major professor and selected faculty committee for approval. The proposal must be filed with the School of Public Health Office of Admissions and Students Services. An application for the Institutional Review Board (IRB) must be prepared and submitted for approval before any data can be collected for either the thesis or professional report.
6. Once a student has enrolled in thesis or professional report, he/she must maintain continuous enrollment in a minimum of 3 SCH of thesis or professional report during each semester (fall, spring, summer) until the final document has been accepted by the appropriate department chair and the dean. Failure to maintain continuous enrollment will either invalidate any previous credit or will result in the student's dismissal from the degree program unless granted an official leave of absence by the dean for medical or other exceptional reason.
7. The completed thesis or professional report must be submitted to the faculty committee prior to an oral presentation (see academic calendar for deadlines).
8. Students are required to give an oral presentation to their faculty committee on the thesis and professional report.
9. Three copies of the thesis must be bound for institutional use. These are distributed to the major professor, the department chair, and the reference section of the Gibson D. Lewis Health Science Center Library. Two additional copies are required. The fourth copy remains unbound in the library archives. The fifth copy remains unbound in the School of Public Health. Additional copies may be bound upon request.
10. Students must submit an Intent to Graduate form to the School of Public Health Office of Student Services and Academic Affairs at the beginning of the semester for which they plan to graduate (see academic calendar for deadline).

Core Curriculum Requirements: 18 SCH

BIOS	5210	Biostatistics for Public Health I	3 SCH
ENVR	5300	Environmental Health	3 SCH

EPID	5100	Principles of Epidemiology	3 SCH
HMAP	5130	Principles of Public Health	3 SCH
HMAP	5200	Health Administration	3 SCH
SCBS	5110	Behavioral and Social Aspects of Public Health	3 SCH

To request a waiver, a student must submit a petition in writing to their advisor and the appropriate instructor outlining the class they would like to waive. The petition should also include documentation indicating that the previous coursework is comparable to the requirements of the course stated in the petition. The student's advisor and the instructor and department chair associated with the course must approve such petition. No credits are awarded for courses that are waived. A waiver allows a student to substitute an elective course for a required course. For additional information regarding transfer coursework, refer to Chapter 4: Policies: Academic and Institutional, see the section relating to Use of Transfer Credit.

Concentration Curriculum: Minimum of 21 SCH

The concentration curriculum includes a practicum (3 SCH), a quantitative or analytic course (3 SCH), and other required and elective courses as specified in the following sections. The practicum is an important element of the M.P.H. curriculum through which the student obtains experience in a practice setting appropriate to the development of professional practice skills.

Culminating Experience: 6 SCH*

HMAP or SCBS	5800	Capstone	3 SCH
SPH	5900	Professional Report	3 SCH
-or-			
SPH	5950	Thesis	6 SCH

The thesis is an individual research project conducted under the supervision of a faculty committee. The thesis is written in a traditional academic style and orally defended. Capstone is an organized, semester-long course, under the supervision of faculty, in which a team project is conducted and a team written presentation of the project is produced. The capstone may be used as the culminating experience option for students in the Department of Social and Behavioral Science and the Department of Health Management and Policy. Students in SCBS or HMAP may select from either SCBS 5800 or HMAP 5800. SCBS 5800 will be offered annually during the fall semester and HMAP 5800 will be offered annually during the spring semester. Students in concentrations besides HMAP and SCBS may choose to take capstone as an elective; it cannot be used to fulfill their culminating experience requirement. Students electing the capstone option must also complete the professional report.

The professional report is an individual project that addresses a well-focused public health question or issue. The professional report is supervised by a faculty committee and requires an oral presentation to the committee by the student.

*Community Health students who select the thesis option are required to take SCBS 6400 Research Methods in Social and Behavioral Sciences.

*Epidemiology students are permitted to take a comprehensive examination at the end of their coursework in lieu of Thesis, which serves as their culminating experience. Students are responsible for coordinating with the Department of Epidemiology to schedule this examination. Students who select the comprehensive examination option must take six (6) semester credit hours of electives in lieu of the thesis.

*Biostatistics and Clinical Research students can select the Thesis option or take BIOS 6785: Biostatistical Research and Consulting, one additional 3 credit hour elective course and take the comprehensive examination.

*Environmental and Occupational Health students are required to enroll in the thesis option.

Master of Public Health Program Learning Objectives

After completion of the M.P.H. program, the student will be able to:

1. Select and apply effective approaches to prevent disease and promote health in human populations.
2. Identify the contribution of social, cultural, and physico-chemical/biological environments as risk factors and root causes of health status, health outcomes and use of health services.
3. Use appropriate analytical methods and make relevant inferences in analysis of data related to a public health problem.
4. Critically evaluate literature and data relevant to public health issues.
5. Communicate effectively in writing and orally with the lay public and within professional and academic forums.
6. Use technology to access, communicate, manage and analyze data and information.
7. Lead and participate effectively in a group to address issues by applying basic team building and human relations skills problem solving.

Department of Biostatistics

Karan Singh, Ph.D., Department Chair
 UNT Health Science Center School of Public Health
 Center for BioHealth
 817-735-5029
ksingh@hsc.unt.edu

The Department of Biostatistics promotes education, practice, application, and research in biostatistics and related fields. The department has faculty with expertise in biostatistical methodology and application. Their interests include regression methods, survival analysis, sequential analysis, multivariate analysis, cancer modeling, clinical trial, statistical consulting, data management, and information systems. The department is active in the development and application of statistical methods in public health, medical and biomedical sciences training graduate students, and in collaborating with basic and clinical science investigators. The department consults with investigators in research study design and grant preparation, data collection and data management, safety and efficacy monitoring, statistical analysis and manuscript preparation. The department offers various courses in biostatistics to meet the challenge of today's career requirements. The department administers the Master of Public Health degree in three areas of concentration: biostatistics, clinical research, and health informatics. The Master of Public Health degree in health informatics is offered jointly by the Department of Biostatistics and Health Management and Policy.

Biostatistics Concentration

The biostatistics concentration is intended for students wishing to pursue careers in local, state, and federal health agencies; health and medical centers; research institutions; health and pharmaceutical industries. The M.P.H. degree in biostatistics is a professional degree that is designed to train students in data management, statistical analysis, interpretation, and presentation of analytical results using computing technology. The courses in the program emphasize the methodology and procedures of statistical analysis and research designs. In addition to a wide variety of exciting applications, there are excellent career opportunities in biostatistics. Applicants to this program are expected to have a background in college algebra and calculus.

Biostatistics Concentration Curriculum

Practicum Requirement: 3 SCH

SPH	5850	Practice Experience in Public Health	3 SCH
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Required Courses: 12 SCH

BIOS	5215	Biostatistics for Public Health II	3 SCH
BIOS	5700	Mathematical Statistics	3 SCH
BIOS	5730	Regression Analysis	3 SCH
BIOS	5735	Analysis of Variance	3 SCH

Elective Courses: 6 SCH

BIOS	5720	Survey Sampling	3 SCH
BIOS	5725	Nonparametric Statistical Methods	3 SCH
BIOS	5740	Introduction to Statistical Packages	3 SCH
BIOS	5760	Data Management	3 SCH
BIOS	5910	Independent Study in Biostatistics	3 SCH
BIOS	6760	Multivariate Analysis	3 SCH
BIOS	6775	Clinical Trials and Survival Analysis	3 SCH
BIOS	6785	Biostatistical Research and Consulting	4 SCH
BIOS	6790	Seminar in Biostatistics	3 SCH

With approval of the advisor, students may substitute an elective course not on this list.

Biostatistics Concentration Learning Objectives

1. Assess a public health problem using quantitative and/or qualitative data.
2. Know standard terminology and statistical symbols.
3. Select appropriate statistical techniques for a public health problem.
4. Identify, develop, apply and modify an appropriate statistical approach to a public health problem based on constraints and available resources.
5. Work effectively with professionals in public health on problems requiring more advanced concepts and tools.
6. Identify and develop appropriate study designs, sample size and power analysis to a public health problem.
7. Identify and develop appropriate data collection strategies for an appropriate statistical method.
8. Compute statistics with statistical software and/or a hand calculator.
9. Summarize results from statistical analyses.
10. Review statistical analyses and results critically in public health literature.
11. Prepare analyses in a written report from a public health and/or biomedical perspective.
12. Present and interpret findings clearly and concisely in a public health meeting or conference.

Clinical Research Concentration

The Master of Public Health (M.P.H.) degree in clinical research is primarily designed for those who are currently working in the health care professions. The program is for professionals who wish to prepare for roles in clinical research, health care research, medical database management, or statistical consulting in medical or public health settings. The Master of Public Health (M.P.H.) is oriented toward applied clinical research, outcome measurement, and applied biostatistics.

Clinical Research Concentration Curriculum**Practicum Requirement: 3 SCH**

SPH	5850	Practice Experience in Public Health	3 SCH
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Required Courses: 15 SCH

BIOS	5215	Biostatistics for Public Health II	3 SCH
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BIOS	5730	Regression Analysis	3 SCH
BIOS	5735	Analysis of Variance	3 SCH
BIOS	6775	Clinical Trials and Survival Analysis	3 SCH
BIOS	6710	Outcome Measurement in Health Care	3 SCH

Elective Courses: 6 SCH

BIOS	5760	Data Management	3 SCH
BIOS	5910	Independent Study in Biostatistics	3 SCH
BIOS	6760	Multivariate Analysis	3 SCH
BIOS	6785	Biostatistical Research and Consulting	4 SCH
EPID	5610	Chronic Disease Epidemiology	3 SCH
EPID	5630	Infectious Disease Epidemiology	3 SCH
HMAP	5720	Survey Sampling	3 SCH
HMAP	6200	Organizational Management	3 SCH
HMAP	6225	Quality Management in Long-term Care	3 SCH

Clinical Research Concentration Learning Objectives

1. Conduct experimental research in public health such as community trials and clinical trials in collaboration with other health professionals.
2. Conduct biostatistical research as applied to health care and public health issues.
3. Assist in the planning, development and evaluation of health systems and programs using biostatistical procedures.
4. Assist in the planning, development and evaluation of treatment outcome data collection in a broad array of health care facilities.
5. Analyze and solve a public health issue by applying statistical methodology.
6. Communicate findings of the analysis and solution of a problem of health care and public health importance of professional journals.
7. Plan and conduct independent research focusing on the analysis and solution of a problem in public health practice, via the completion of a thesis.

Health Informatics Concentration

The M.P.H. degree in Health Informatics is primarily designed for those who are currently working in the clinical or public health professions and for those who are interested in exploring the science of health computing. The program is for professionals who wish to prepare for roles in health computing industries, including but not limited to the following areas: clinical data management; health systems evaluation, development and analysis; geographic information systems (GIS) applications in health; and telemedicine of telehealth in medical or public health settings. The Master of Public Health is oriented toward applied data processing and applications, health information system design and development, and other applied informatics in health settings. This concentration is offered jointly by the Department of Health Management & Policy and the Department of Biostatistics. The health informatics concentration curriculum and learning objectives are outlined in the Department of Health Management and Policy section of this catalog.

Department of Environmental and Occupational Health

UNT Health Science Center School of Public Health
Center for BioHealth
817-735-2362

The Department of Environmental and Occupational Health includes faculty with experience and training in the fields of environmental health, environmental sciences, occupational medicine, industrial hygiene and occupational health management. The academic and research activities of the department's faculty focus on environmental and occupational factors affecting the health of the public. The department administers the Master of Public Health degree in two areas of concentration: Environmental Health and Occupational Health Practice.

Departmental Learning Objectives

1. Identify the pathway and routes of exposure to occupational health hazards and describe the basic methods of assessment and control/reduction of such hazards.
2. Interpret exposure assessments conducted by environmental or other occupational health professionals
3. Prepare technical reports and effectively communicate environmental and occupational health risks and prevention strategies across multiple sectors of the community.
4. Perform assessment, implementation and assurance analyses of environmental and occupational health programs.
5. Recognize the effects of physical, chemical, cultural, ethnic and social factors on health and safety of affected populations.
6. Perform a risk assessment and evaluate the effectiveness of environmental and occupational health services and risk reduction methods.

Environmental Health Concentration

The environmental health concentration accommodates students with various backgrounds and interests, who desire careers related to the environmental aspects of public health. Specifically, this area of concentration provides the expertise and experience to analyze, monitor, interpret and mitigate the effects of chemical contaminant and microbial and viral pathogens in water, air, soil and food on public health. It prepares students in the M.P.H. program for technical and administrative jobs in the governmental and private sectors. The UNT Health Science Center in Fort Worth coordinates the environmental health concentration in collaboration with the Environmental Science Program in the Department of Biological Sciences at the University of North Texas in Denton.

Environmental Health Concentration Curriculum

Practicum Requirement: 3 SCH

SPH	5850	Practice Experience in Public Health	3 SCH
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Required Courses: 9 SCH

BIOS	5215	Biostatistics for Public Health II	3 SCH
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ENVR	5315	Environmental and Occupational Health Risk Analysis	3 SCH
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ENVR	5330	Environmental and Occupational Toxicology	3 SCH
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Elective Courses: Minimum of 9 SCH

ENVR	5325	Industrial Hygiene	3 SCH
ENVR	5340	Food Quality and Safety	3 SCH
ENVR	5420	Texas-Mexico Border Health Issues	3 SCH
ENVR	5910	Independent Study in Environmental Health	3 SCH
EPID	6640	Environmental Epidemiology	3 SCH
EPID	6690	Occupational Epidemiology	3 SCH
*BIOL	5040	Contemporary Topics in Environmental Sciences & Ecology	3 SCH
*BIOL	5040	Topics: Air Pollution	3 SCH
*BIOL	5040	Topics: Air Pollution Laboratory	3 SCH
*BIOL	5360	Chemistry of Water and Water Pollution	3 SCH
*BIOL	5380	Fundamentals of Aquatic Toxicology	3 SCH
*BIOL	5880	Environmental Sciences Seminar Series	3 SCH
*BIOL	6340	Environmental Impact Assessment	3 SCH
*BIOL	6360	Environmental Engineering	3 SCH
*GEOG	5400	Environmental Modeling	3 SCH
*GEOG	5500	Introduction to Geographic Information Systems	3 SCH

* Indicates courses offered at UNT Denton

With approval of the Department Chair, students may substitute and elective course not on this list.

Environmental Health Concentration Learning Objectives

By the conclusion of the M.P.H. program, a student in the environmental health concentration will be able to:

1. Assess environmental health threats that affect the health of the public.
2. Understand the interplay between theory and practice of environmental health management.
3. Understand environmental protection strategies and approaches to reduce environmental health risks.
4. Identify, develop, apply and modify an appropriate research approach to an environmental health problem based on constraints and available resources.
5. Analyze quantitative and qualitative data to describe environmental conditions that have impacts on human health.
6. Synthesize data from a variety of sources, reflective of multidisciplinary perspectives, to develop strategies for addressing complex environmental health problems. Use biostatistics and statistical software to analyze an environmental health problem.
7. Interpret and present findings in written and verbal format from an environmental health and public health perspective

Occupational Health Practice Concentration

The occupational health practice concentration is intended for students interested in applied occupational health program design, development and management. This concentration is not a clinical or medical program. Graduates will be prepared to practice occupational health in a variety of settings with a multidisciplinary approach to the design, implementation,

management, and evaluation of occupational health programs and services.

The occupational health practice concentration is primarily designed for those individuals who are currently working in an occupational setting, who require an MPH for eligibility for board certification or for those who are interested in exploring the science of occupational health. The program is for individuals who wish to augment, enhance, or expand their current training or who wish to prepare for roles in health occupational health, including, but not limited to, the following areas: safety professionals, industrial hygienists, health practitioners (physicians, nurses, physician assistants) and human resource personnel (program management and procurement). This concentration is also designed for public health or occupational health professionals who wish to become knowledgeable in occupational health research, occupational health data management, and applied occupational health programs or management.

Occupational Health Practice Concentration Curriculum

Practicum Requirement: 3 SCH

SPH	5850	Practice Experience in Public Health	3 SCH
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Required Courses: 12 SCH

ENVR	5315	Environmental and Occupational Health Risk Analysis	3 SCH
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ENVR	5325	Industrial Hygiene	3 SCH
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ENVR	5350	Occupational Health Practice	3 SCH
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ENVR	5360	Occupational Health Surveillance	3 SCH
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Elective Courses: 6 SCH

ENVR	5330	Environmental and Occupational Toxicology	3 SCH
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ENVR	5910	Independent Study	3 SCH
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EPID	6690	Occupational Epidemiology	3 SCH
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HMAP	5430	Health and Public Health Law	3 SCH
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HMAP	6215	Health Insurance and Managed Care	3 SCH
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*GEOG	5500	Geographical Information Systems	3 SCH
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Occupational Health Practice Concentration Learning Objectives

Upon completion of the concentration area in occupational health practice, the graduate will be able to:

1. Identify and be familiar with regulatory or legislative authority directed at occupational health practice.
2. Acquire, compile, collate, store, evaluate and analyze occupational health data by applying statistical methodology.
3. Identify external factors which influence worker safety and health.
4. Work effectively as a team member with other occupational health professionals by understanding their roles in occupational health services.
5. Describe employee legal rights to confidentiality of medical record information.
6. Perform assessment, implementation and assurance analyses of occupational health programs.

7. Recognize the roles and functions of employee assistance programs, medical surveillance programs, duty fitness programs, safety programs, and substance abuse testing in the occupational health setting.
8. Plan and conduct independent research focusing on the analysis and solution of a problem in occupational health practice, via the completion of a thesis/project reports.

Department of Epidemiology

Karan Singh, Ph.D., Interim Department Chair
 UNT Health Science Center School of Public Health
 Center for BioHealth
 817-735-2242
 ksingh@hsc.unt.edu

The Department of Epidemiology includes faculty with expertise in the conduct of etiologic research, applied epidemiology, public health surveillance, statistical analysis, and data management and information systems. Faculty research has emphasized the etiology of chronic, infectious and tropical diseases, and diseases related to environmental and occupational hazards. The department administers the epidemiology concentration in the M.P.H. program.

Epidemiology Concentration

The epidemiology concentration is designed for students seeking to acquire skills in the fundamental methods of disease investigation and prevention in large populations. Concentration courses emphasize basic and advanced epidemiologic principles and their application to current problems in public health and related disciplines. Students in the epidemiology concentration are expected to use appropriate methods to plan, implement, and conduct epidemiologic research. Students are also expected to critically evaluate research methodology to assess validity and potential sources of bias. Skills in computer use and statistics acquired in the public health program are used to analyze, interpret, and disseminate the results of epidemiologic investigations.

Epidemiology Concentration Curriculum

Practicum Requirement: 3 SCH

SPH	5850	Practice Experience in Public Health	3 SCH
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Required Courses: 9 SCH

BIOS	5215	Biostatistics for Public Health II	3 SCH
EPID	5620	Theory & Practice of Epidemiology	3 SCH
EPID	5660	Epidemiology of Diseases of Public Health Importance	3 SCH

Elective Courses: 9 SCH or 15 SCH if taking the Comprehensive Exam

BIOS	5740	Introduction of Statistical Packages	3 SCH
EPID	5610	Chronic Disease Epidemiology	3 SCH
EPID	5630	Infectious Disease Epidemiology	3 SCH

EPID	5690	Epidemiology of Bioterrorism /Catastrophic Events	3 SCH
EPID	5910	Independent Study in Epidemiology	3 SCH
EPID	6610	Cardiovascular Disease Epidemiology	3 SCH
EPID	6615	Epidemiologic Surveillance	3 SCH
EPID	6620	Survey Methodology	3 SCH
EPID	6625	Tropical Diseases Epidemiology	3 SCH
EPID	6630	Quantitative Epidemiologic Methods	3 SCH
EPID	6640	Environmental Epidemiology	3 SCH
EPID	6670	Cancer Epidemiology	3 SCH
EPID	6690	Occupational Epidemiology	3 SCH

With approval of the advisor, students may substitute an elective course not on this list.

Epidemiology Concentration Learning Objectives

By the conclusion of the M.P.H. program, a student in the epidemiology concentration will be able to:

1. Quickly assess a public health problem using quantitative and/or qualitative data.
2. Use relevant analysis for relevant study designs.
3. Understand the natural occurrence of disease and associated risk factors.
4. Understand the importance of ethical considerations in the conduct of epidemiological studies.
5. Identify, develop, apply and modify an appropriate research approach to an epidemiologic problem based on constraints and available resources.
6. Identify and develop data collection strategies for the appropriate epidemiologic approach.
7. Implement appropriate study designs to an epidemiologic problem.
8. Review epidemiologic literature critically.
9. Use biostatistics when analyzing an epidemiologic problem.
10. Use statistical software for the analysis of an epidemiologic problem.
11. Interpret and present findings in either a written or verbal format and from a biomedical and/or a public health perspective.
12. Present findings in tabular and graphic format as well as written and verbal.

Department of Health Management and Policy

Adela Gonzalez, M.P.H., Ph.D., Interim Department Chair

UNT Health Science Center School of Public Health

Education and Administration Building

817-735-5440

agonzale@hsc.unt.edu

The Department of Health Management and Policy has faculty with broad experience in academic, public, and private sector environments. The departmental faculty works to develop linkages and opportunities for collaborative learning and research in the Dallas-Fort Worth metropolitan area. The department administers the health management and policy concentration in the M.P.H. program.

Health Management and Policy Concentration

The health management and policy concentration is designed to prepare students with competencies needed for careers in health management and policy. The curriculum addresses health systems, quantitative methods, health economics and finance, managed care, health policy, health law and other areas central to management, planning, and evaluation in both private and public sectors. The concentration draws from the broader resources of the School of Public Health and the University of North Texas Health Science Center to familiarize students with the culture and issues of health care. The concentration provides instruction in professional competencies commonly found in schools of business, management, public administration, and public policy.

Health Management and Policy Concentration Curriculum

Practicum Requirement: 3 SCH

SPH	5850	Practice Experience in Public Health	3 SCH
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Required Courses: 9 SCH

HMAP	5240	Health Politics and Policy	3 SCH
HMAP	5245	Health Economics	3 SCH
HMAP	5255	Finance for Health Management	3 SCH

Selective Courses: 3 SCH*

BIOS	5215	Biostatistics for Public Health II	3 SCH
HMAP	5260	Health Information Systems	3 SCH

* BIOS 5215 is recommended for students with a policy focus; HMAP 5260 is recommended for students with a management focus.

Elective Courses: 6 SCH

SCBS	5220	Ethnicity, Culture, and Health	3 SCH
HMAP	5250	Public Health Leadership	3 SCH
HMAP	5430	Health and Public Health Law	3 SCH
HMAP	5450	Public Health Program Planning & Evaluation	3 SCH
HMAP	5910	Independent Study in Health Management & Policy	3 SCH

With approval of the advisor, students may substitute an elective course not on this list.

Health Management and Policy Concentration Learning Objectives

By the conclusion of the M.P.H. program, a student in the health management and policy concentration will be able to:

1. Understand the ethical framework suitable for the health management and policy arena.
2. Acquire concepts to enable them to participate in the health care system.
3. Acquire economic and financial analytical knowledge applicable to health management.
4. Develop knowledge regarding mechanisms to monitor and evaluate programs for their effectiveness and quality.
5. Understand the legal and political system and how to affect change within it.

6. Apply management and analytical skills that are enduring and transferable over the course of the student's career.
7. Collect, summarize and interpret policy-making structures and information relevant to a health issue.
8. Articulate the health, fiscal, administrative, legal, social and political implications of policy options.
9. Develop plans to implement and evaluate policies, including goals, outcomes, process objectives and implementation steps.
10. Manage information systems for the collection, retrieval and appropriate analysis of data for decision-making.
11. Apply quantitative and technological skills appropriate to health management and policy.

Department of Social and Behavioral Sciences

Adela Gonzalez, M.P.H., Ph.D., Interim Department Chair
 UNT Health Science Center School of Public Health
 Education and Administration Building
 817-735-2371
agonzale@hsc.unt.edu

The Department of Social and Behavioral Sciences includes faculty with expertise in community health, health education and health promotion, ethnicity and culture, health communication, and Hispanic/Latino health. The department administers the M.P.H. concentration in Community Health and Health Interpreting and Health Applied Linguistics.

Community Health Concentration

The community health concentration prepares professionals from a variety of disciplinary backgrounds and interests (e.g., medicine, nursing, allied health, social work, social sciences, psychology, dentistry, physician assistant, health education, nutrition, etc.) to assume public health positions. The community health concentration uses a multidisciplinary approach and focuses on social, cultural, political, and economic factors that influence health status and health-related behaviors of individuals. The curriculum concentrates on strategies for the promotion of health and the prevention of disease in populations through public health policy and interventions in the context of social structure, community, family, and health care systems. The community health concentration emphasizes the role of social, economic, cultural, and behavioral factors in disease prevention, promotion of health, vulnerability to disease, and interaction with health care systems. Traditionally, program graduates have assumed positions in both the public and private health care. The M.P.H. program can serve as preparation for doctoral studies.

Community Health Concentration Curriculum

Practicum Requirement: 3 SCH

SPH 5850 Practice Experience in Public Health

3 SCH

Required Courses: 9 SCH

BIOS	5215	Biostatistics for Public Health II	3 SCH
SCBS	5400	Community Health	3 SCH
SCBS	5410	Community Assessment	3 SCH

Selective Courses: 6 SCH

HMAP	5450	Public Health Program Planning & Evaluation	3 SCH
SCBS	5220	Topics in Culture, Race/Ethnicity and Health	3 SCH
SCBS	5230	Community Health Education Strategies	3 SCH
SCBS	5430	Health Communication Strategies in Public Health	3 SCH
*SCBS	6400	Research Methods in Social and Behavioral Sciences	3 SCH

Elective Courses: 3 SCH

BIOS	5740	Introduction to Statistical Packages	3 SCH
EPID	5610	Chronic Disease Epidemiology	3 SCH
EPID	6620	Survey Methodology	3 SCH
HMAP	5240	Health Politics and Policy	3 SCH
HMAP	5250	Public Health Leadership	3 SCH
SCBS	5225	Medical Anthropology	3 SCH
SCBS	5420	Texas-Mexico Border Health Issues	3 SCH
SCBS	5440	Language and Literacy in Latino Health	3 SCH
SCBS	5500	Introduction to International Health	3 SCH
SCBS	5560	Field Studies in International Health I	3 SCH
SCBS	5910	Independent Study in Social & Behavioral Sciences	3 SCH
SCBS	6170	Qualitative Research Methods	3 SCH
SCBS	6300	Health Behavior Theory and Practice	3 SCH

*Required for those students selecting the Thesis option.

Students may substitute BIOS 5215 (Required Course) with EPID 6620 or SCBS 6170. Additionally, with academic advisor approval, students may substitute an elective course not on this list.

Community Health Concentration Learning Objectives

By the conclusion of the MPH program, a student in the community health concentration will be able to:

1. Recognize the value and the implications of diversity (racial/ethnic, cultural, social) and the importance of cultural competency in addressing public health issues in the community.
2. Identify the role and impact of demographic, social, economic, cultural, political, and behavioral factors in determining population health status, disease, disease preventing and health promoting behavior, and medical service organization and delivery.
3. Know and understand how race/ethnicity, socioeconomic status, demographic characteristics, and culture affect individual and group physical and mental health and responses to health message.
4. Recognize and analyze the implications of the global inter-connectives of our society in the economic, social, and political areas and its public health implications at the local level.

5. Recognize and analyze factors that contribute to individuals' social, economic, and political incorporation and acculturation in the mainstream society and describe how this process affects health status and delivery of health care.
6. Critically evaluate and use the behavioral sciences theory and literature in determining which health promotion/disease prevention programs/interventions may or may not be effective because of group social, racial, ethnic, economic factors as well as unique characteristics and requirements of different cultures.
7. Apply knowledge of community social, economic, political and cultural characteristics in the development and implementation of interventions in participatory community health planning.
8. Identify and assess economic, cultural and social barriers to the development of programs to address community public health needs and adapts approaches and solutions to problems that take into account cultural differences.
9. Promote networks and establish partnerships with diverse community agencies, health providers, community organizations and institutions to promote policies, programs, services and resources that protect the health of community residents.
10. Interact sensitively, effectively, and professionally with persons from diverse cultural, socioeconomic, educational, and professional backgrounds and with persons of all ages and lifestyle preferences.
11. Identify community needs, demands, problems, resources available, and develop suggestions for action.

Health Interpreting and Health Applied Linguistics Concentration (HIHAL)

The HIHAL concentration is the only program in the United States to prepare students from a variety of disciplinary backgrounds and interests - including language and linguistics (e.g., translation and interpretation studies; applied linguistics; language studies), and health sciences (e.g., public health, medicine, nursing, etc.) - to assume positions as professional health interpreters, linguistic researchers and leaders in the field of health applied linguistics. The mission of HIHAL is to prepare professionals who will serve at the national level to promote rigorous, science-based standards for linguistic competence in health settings. HIHAL students will explore the interrelationship between language and health, and will delve into the complex relationship that exists between language and disease. They will develop competencies in conducting language research in health settings, and will receive extensive training as health interpreters, and in some cases, as health writers and translators. Due to the support of collaborating healthcare providers in Tarrant County, the program provides a rich environment for interpreter training and research and opportunities for thesis topics that are not readily available in other linguistics programs. Currently, the languages covered in the program are limited to English and Spanish. Development of the HIHAL curriculum is supported by a grant from Hablamos Juntos, a national program of The Robert Wood Johnson Foundation with the mission of improving the quality of health care for Latinos. (See section on General Admissions Requirements for a listing of additional application materials that must be submitted.)

Health Interpreting and Health Applied Linguistics Curriculum

Practicum Requirement: 3 SCH

SCBS 5850 Practice Experience in Public Health 3 SCH

Required Courses: 12 SCH

SCBS 5300 Introduction to Health Applied Linguistics 3 SCH

SCBS 5310 Health Interpreting 3 SCH

SCBS 5320 Research Methods in Linguistics for Health Settings 3 SCH

SCBS 5400 Community Health 3 SCH

-or-

SCBS 5410 Community Assessment 3 SCH

Selective Courses: 3 SCH

SCBS 5220 Topics in Culture, Race/Ethnicity and Health 3 SCH

SCBS 5230 Community Health Education Strategies 3 SCH

SCBS 5330 Text Linguistics and Translation 3 SCH

SCBS 5340 Sociolinguistics for Interpreting in Healthcare 3 SCH

SCBS 5430 Health Communication Strategies in Public Health 3 SCH

SCBS 6400 Research Methods in Social and Behavioral Sciences 3 SCH

Elective Courses: 3 SCH

SCBS 5405 Disparities in Health 3 SCH

SCBS 5440 Language and Literacy in Latino Health 3 SCH

SCBS 5225 Medical Anthropology 3 SCH

SCBS 5420 Texas-Mexico Border Health Issues 3 SCH

SCBS 6170 Qualitative Research Methods 3 SCH

HMAP 5240 Health Politics and Policy 3 SCH

HIHAL Concentration Learning Objectives

1. Recognize the impact of language on wellness and health access for language-minority patients in the United States.
2. Identify the role and impact of language, literacy, demographics, social structure, economics, culture, policy, and behavior in determining population health status, disease, and disease prevention.
3. Know and understand how race/ethnicity, socioeconomic status, demographic characteristics, culture, language, and literacy affect individual and group physical and mental health and response to health messages.
4. Understand the social structures within which medical discourse is embedded, and impact on medical service and delivery.
5. Develop the interpreting skills, linguistic knowledge, and fluency in medical discourse to serve as professional health interpreters and interpreter trainers in healthcare settings.
6. Critically evaluate past and current language and literacy research in the health fields, and apply linguistic knowledge and research skills to promote rigorous, science-based standards for linguistic competence in the healthcare arena.

7. Prepare to occupy leadership positions as linguistic and cultural consultants in health care organizations such as public health departments, health-care facilities, federal or state health departments, and academia.

3 Doctor of Public Health in Public Health Practice

The Doctor of Public Health (Dr.P.H.) degree in Public Health Practice is an indication of distinguished scholarly accomplishment in the professional field. The goal of the Dr.P.H. program is to prepare students for leadership roles in the professional practice of public health in governmental, private and not-for-profit organizations. Enrollment into the program is limited to applicants who have satisfactorily completed an M.P.H. degree or equivalent prerequisite requirements. Preference may be given to those with professional public health work experience. Students in the Dr.P.H. program elect an area of concentration in biostatistics, clinical research, epidemiology, health management and policy, or social and behavioral sciences.

Admissions

An application for admissions can be obtained from the School of Public Health by writing to or emailing:

School of Public Health
UNT Health Science Center at Fort Worth
3500 Camp Bowie Boulevard
Fort Worth, Texas 76107-2699
sph@hsc.unt.edu
Or on the Web at: www.hsc.unt.edu

Applicants applying for the first time to the School of Public Health must pay a non-refundable application fee: \$25 for U.S. citizens, \$75 for non-U.S. citizens and permanent residents (\$25 application fee and \$50 educational records evaluation fee). The fee must be paid in U.S. currency. The application fee is valid for one year from the application date.

Admissions Requirements

1. The applicant must hold a minimum of a master's degree from a regionally or federally accredited institution. Preference is given to applicants with the Master of Public Health (M.P.H.) degree. Students who do not hold the M.P.H. degree will be required to take additional courses dependant upon their prior course work. These additional course requirements will consist of 21 SCH minimum of core M.P.H. curriculum (7 courses) and 36 SCH maximum (12 courses).
2. The applicant must designate on the application and reference in their Statement of Goals the area of study they wish to pursue within the Dr.P.H. program.

The applicant must provide transcripts documenting their GPA on all prior undergraduate and graduate work.

3. All students seeking admission to a graduate degree program are required to take and submit scores for the Graduate Record Examination (GRE). Applicants to the Department of Health Management and Policy may substitute the GMAT for the GRE. Only official score reports from the Educational Testing Service are acceptable. Scores should be reported by using the institutional code 6565.
4. The health science center requires an applicant from a foreign country to demonstrate satisfactory proficiency in oral and written English before being granted admission.
5. To be considered for admission, the applicant must file the following official credentials with the School of Public Health Office of Student Services and Academic Affairs:
 - An application for admission to the School of Public Health
 - The application fee
 - Complete official transcripts from all colleges or universities attended
 - Official scores from all required entrance exams or tests (may include one or more of the following: GRE, GMAT, TOEFL, MCAT, etc.)
 - Two letters of evaluation by individuals in a position to comment on the applicant's potential as a public health student and future professional.
 - A written statement of personal career goals
 - A current curriculum vita or resume

Admission Requirements for International Students

For international students transferring from a U.S. college or university, they must meet all School of Public Health transfer admission requirements. Specific requirements are detailed below. The health science center will not issue immigration papers for student visas until all admission credentials have been received and approved. A \$75 (U.S.) application and transcript evaluation fee is required and must be submitted with the application for admission. This fee is subject to change at any time. Applicants who are graduates of foreign colleges or universities must present the following documents for application:

- Application forms for admission to the School of Public Health accompanied by \$75 (U.S.) application and transcript evaluation fee.
- Official reports from Educational Testing Service (ETS) on the Graduate Record Examination (GRE). Scores should be reported using institutional code 6565.
- Official reports from ETS showing a minimum score of 550 on the written Test of English as a Foreign Language (TOEFL), a score of 213 on the computer version of the TOEFL, or evidence of successful completion of a non-credit intensive course in English. Scores should be reported using institutional code 6565.
- Official transcripts from each college or university attended both in English and the native language.
- Proof of financial resources available, filed with application for admission
- Two letters of evaluation by individuals in a position to comment on the applicant's potential as a public health student and future professional.
- Written statement of personal career goals
- A current curriculum vitae or resume

Admissions Decisions/Deferments

Applicants will be furnished written notification regarding their admission status by the School of Public Health's Office of Student Services and Academic Affairs. Statements by other health science center personnel concerning the applicant's admissibility are not valid until confirmed in writing by the School of Public Health Office of Student Services and Academic Affairs.

Students who are admitted to a degree program and do not intend to enroll in the semester for which they applied must contact the School of Public Health Office of Student Services and Academic Affairs to request deferment. Deferments must be made in writing and cannot exceed one year from the original acceptance date. There is a deferment fee of \$100; the deferment fee is due at the time the request is made.

An applicant desiring to pursue graduate work in any concentration whose undergraduate or graduate record does not show completion of the course prerequisites to this concentration will be required to make up such deficiencies in a manner prescribed by the student's academic advisor with approval by the appropriate department chair prior to or concurrently with admission.

Information submitted in the application materials must be complete and correct. Prospective and current students must notify the proper institution officials regarding any changes in the information provided on their application. Falsification or omission of any information on the application documents will void a student's admission, cancel their enrollment, and/or result in appropriate disciplinary action. All materials submitted in the application become the property of UNT Health Science Center and cannot be returned.

Academic Procedures

Each student is responsible for the completion of the Dr.P.H. program according to the procedures that follow. Each item must be completed in the sequence and time period indicated. Forms are subject to revision at any time and should be obtained from the School of Public Health Office of Student Services and Academic Affairs.

1. Acceptance into the School of Public Health and an academic advisor is assigned.
2. The student must file a degree plan, approved by the advisor and the appropriate department chair, with the School of Public Health Office of Student Services and Academic Affairs before the completion of the first semester of enrollment. Enrollment will be restricted after the first semester unless a degree plan is on file.
3. Upon the completion of all M.P.H. prerequisites and the core Dr. P.H. coursework, a written examination, called the core qualifying exam, will be administered to ascertain the student's competency in the core curriculum before advancing to a concentration area.
4. After successful completion of the core qualifying exam, the student, in consultation with the advisor, must select a dissertation committee. This committee must consist of a minimum of three faculty members. The major professor and one committee member must be from the student's department and the other committee member may be from outside the student's department. The committee member from outside the student's department must have full or adjunct faculty status with the School of Public Health.
5. Before completion of the residency course (SPH 6850 or SCBS 6855), the student must submit a paper for publication in a public health journal. Students should contact their department chair regarding additional journal/publication requirements.

6. After completion of the concentration area courses, a specialized qualifying examination will be administered to evaluate the student's readiness for the doctoral dissertation. Upon passing the qualifying examination, the Dr.P.H. student is eligible to begin work on their dissertation proposal.
7. The student must obtain committee approval of a proposal for the dissertation by orally presenting and defending the proposal to the committee. Students requesting to present and defend their dissertation proposal in conjunction with the specialized qualifying examination must obtain approval from their major professor and department chair. Written approval must be submitted to the Office of Student Services and Academic Affairs prior to their proposal defense. The approved proposal must be filed with the School of Public Health Office of Student Services and Academic Affairs.
8. Once the student has enrolled in dissertation, he/she must maintain continuous enrollment in a minimum of 3 SCH of dissertation during each semester (fall, spring, summer) until the final document has been accepted by the appropriate department chair and the dean. Failure to maintain continuous enrollment will either invalidate any previous credit or will result in the student's dismissal from the degree program unless granted an official leave of absence by the dean for medical or other exceptional reasons.
9. The final draft of the dissertation must be submitted to the dissertation committee prior to the oral presentation/defense of the dissertation (see academic calendar for deadlines).
10. The student is required to orally present and defend the dissertation to the dissertation committee in a formal seminar open to the public. A defense form indicating a grade of pass or fail for the student's dissertation defense must be completed and signed by the committee and submitted to the School of Public Health Office of Student Services and Academic Affairs by the major professor. Committee members also sign the final copies of the dissertation.
11. Three copies of the dissertation must be bound for institutional use. These are distributed to the major professor, School of Public Health Office of Student Services and Academic Affairs, and the reference section of the Gibson D. Lewis Health Science Center Library. Two additional copies are required. The fourth copy remains unbound in the library archives. The fifth copy remains unbound in the School of Public Health.
12. The student must submit an Intent to Graduate form to the School of Public Health Office of Student Services and Academic Affairs at the beginning of the semester of planned graduation (see academic calendar for deadlines).

Curriculum

Prerequisite Courses: 21 SCH*

BIOS	5210	Biostatistics for Public Health I	3 SCH
BIOS	5215	Biostatistics for Public Health II	3 SCH
ENVR	5300	Environmental Health	3 SCH
EPID	5100	Principles of Epidemiology	3 SCH
HMAP	5130	Principles of Public Health	3 SCH
HMAP	5200	Health Administration	3 SCH
SCBS	5110	Behavioral and Social Aspects of Public Health	3 SCH

Applicants should consult with the department to which they are applying to determine if additional prerequisite courses are required.

Students in the Dr.P.H. program are required to complete a minimum of 58 semester credit hours (SCH) beyond the master's degree to obtain the Dr.P.H. degree. The Dr.P.H. curriculum consists of three components. These include: (1) the core doctoral curriculum that provides the knowledge, skills and experience necessary for competence in public health leadership positions; (2) the concentration curriculum, which develops expertise in a specialized area of public health; and (3) a culminating experience, in which the student must apply knowledge and skills developed in the program to the conduct of research or an applied project.

Core Curriculum Requirements: 25 SCH*

BIOS 5730	Regression Analysis	3 SCH**
EPID 6665	Epidemiology of Diseases of Public Health Importance	3 SCH
HMAP5250	Public Health Leadership	3 SCH
HMAP5450	Public Health Program Planning & Evaluation	3 SCH
HMAP6140	Ethical Issues in Public Health	2 SCH
SCBS 6400	Research Methods in Social and Behavioral Sciences	3 SCH
SPH 6150	Current Topics	1(4) SCH***
SPH 6850	Public Health Practice Residency	4 SCH****+

+ Social and Behavioral Sciences students will complete SCBS 6855 in place of SPH 6850.

* A student may petition to waive a core course or prerequisite course requirement based on comparable course work. Such a petition must be approved by the student's advisor and the department chair and course instructor associated with the course.

** BIOS 5730 Regression Analysis is a required course for students in the biostatistics concentration; therefore, this core curriculum requirement is waived for students in that concentration.

*** Students enroll in 1 SCH per semester for 4 semesters in varying topics. Repeated topics will not be credited towards degree requirements.

**** Health management and policy and biostatistics students must complete a practice residency related to their area of concentration.

Dr.P.H. Core Curriculum Learning Objectives

After the completion of the Dr.P.H. core curriculum, the student will be able to:

1. Identify and promote the relationships between public health and social agencies whose actions affect the health of people.
2. Analyze issues and problems in public health using critical evaluation, applied research methodology, and statistical methods.
3. Participate in effecting change in public health policies and practices through the study of how programs are implemented in institutions and society, and to those subjects that support decision-making in public health such as organizational behavior and theory, financial management, strategy, information systems, and ethics.
4. Plan and evaluate public health programs.
5. Develop a vision and philosophy for professional leadership in public health.
6. Acquire the skills to mobilize resources and the organizational and community capacity necessary to address public health challenges to achieve the national health objectives.
7. Participate in the decision making process where professional leadership in public health is conducted.
8. Analyze quantitative research data in public health using regression techniques.

9. Communicate findings of the analysis and solution of a problem of public health importance in professional journals.

Culminating Experience Requirement: 9 SCH

SPH 6950 Dissertation

9 SCH

The dissertation is an individual research project conducted under the supervision of a faculty committee. The dissertation is written in traditional academic style and orally defended.

Biostatistics and Clinical Research Concentrations

Karan Singh, Ph.D., Department Chair
 UNT Health Science Center School of Public Health
 Center for BioHealth
 817-735-5029
ksingh@hsc.unt.edu

These concentrations are designed for health professionals who would like to become leaders in public health, especially in biostatistics, clinical research, and other related areas. The Department of Biostatistics coordinates these concentrations. Graduates will be able to develop their careers in academia, public health institutions, or healthcare facilities. The graduate of these concentrations will understand public health policies and practices, will identify key elements of quantitative nature for decision-making, and will be able to plan and evaluate health systems and public health programs by using biostatistical methodology. The student will also have the opportunity to learn about community health measurements, as well as the design and management of health data systems. These concentrations provide the expertise and experience to plan, develop, and evaluate public health programs. Students will also gain biostatistical knowledge and skills to be able to plan and conduct applied biostatistical research as independent researchers or as members of research teams in public health and other biomedical sciences that use experimental and observational techniques. A doctoral dissertation for each concentration is required, providing the opportunity to apply the knowledge gained during coursework and other academic activities. The dissertation is expected to analyze and propose solutions to a problem with implications for public health practice, often by translating and applying new theoretical and technical advances to current problems in public health. The graduates of these programs can undertake professional, managerial or leadership positions in governmental or private institutions such as public health departments, academic settings such as schools of public health, epidemiologic research institutions, hospitals and other medical facilities, health care, and pharmaceutical companies.

Biostatistics Concentration Curriculum

Additional Prerequisite Courses in Statistics: 12 SCH

*BIOS 5700	Mathematical Statistics	3 SCH
*BIOS 5730	Regression Analysis	3 SCH

*BIOS	5735	Analysis of Variance	3 SCH
*BIOS	5740	Introduction to Statistical Packages	3 SCH

* Depending upon previous course work, these courses may be waived.

Required Courses: 25 SCH

BIOS	5720	Survey Sampling	3 SCH
BIOS	5725	Nonparametric Statistical Methods	3 SCH
BIOS	5760	Data Management	3 SCH
BIOS	6710	Outcome Measurement in Health Care Settings	3 SCH
BIOS	6760	Multivariate Analysis	3 SCH
BIOS	6775	Clinical Trials and Survival Analysis	3 SCH
BIOS	6785	Biostatistical Research and Consulting	4 SCH
EPID	6630	Quantitative Epidemiologic Methods	3 SCH

Elective Courses: 9 SCH

BIOS	6790	Seminar in Biostatistics	3 SCH
BIOS	6910	Doctoral Independent Study in Biostatistics	1-3 SCH
EPID	5610	Chronic Disease Epidemiology	3 SCH
EPID	5630	Infectious Disease Epidemiology	3 SCH
EPID	6620	Survey Methodology	3 SCH
EPID	6625	Tropical Diseases Epidemiology	3 SCH
HMAP	5240	Health Politics and Policy	3 SCH
HMAP	5245	Health Economics	3 SCH
HMAP	5260	Health Information Systems	3 SCH
HMAP	6200	Organizational Management	3 SCH
HMAP	6210	Health Services Research	3 SCH
SCBS	6400	Research Methods in Social and Behavioral Sciences	3 SCH

Biostatistics Concentration Learning Objectives

After the completion of the concentration curriculum in biostatistics, the graduate will be able to:

1. Conduct biostatistical research as applied to public health issues.
2. Assist in the planning, development and evaluation of health systems and programs using biostatistical procedures.
3. Assist in the planning, development and evaluation of epidemiologic surveillance systems.
4. Analyze and solve a public health issue by applying statistical methodology.
5. Communicate findings of the analysis and solution of a problem of public health importance in professional journals.
6. Conduct experimental research in public health such as community trials and clinical trials in collaboration with other health professionals.
7. Plan and conduct independent research focusing on the analysis and solution of a problem in public health practice, through the completion of a dissertation.

Clinical Research Concentration

This concentration is designed for health professionals that would like to become leaders in public health, especially in patient care, clinical trials, biostatistics, and other related areas. The Department of Biostatistics coordinates this concentration. Graduates will be able to develop their careers in health care setting, public health institutions, or academia. The graduate of this concentration will understand public health policies and practices, will identify key elements of quantitative nature for decision-making, and will be able to plan and evaluate health systems and public health programs by using biostatistical methodology. The student will also have the opportunity to learn about treatment outcome measurement, as well as the design and management of health data systems. This concentration provides the expertise and experience to plan, develop, and evaluate clinical research. Students will also gain biostatistical knowledge and skills to be able to plan and conduct applied clinical research as independent researchers or as members of research teams in health care settings, public health, and other biomedical sciences that use experimental and observational techniques. A doctoral dissertation is required providing the opportunity to apply the knowledge gained during coursework and other academic activities. The dissertation is expected to analyze and propose solutions to a problem with implications for public health practice, often by translating and applying new theoretical and technical advances to current problems in public health. The graduate of this program can undertake professional, consulting, or managerial positions in health care, such as hospitals and other medical facilities, and pharmaceutical companies; governmental or private institutions such as public health departments and academic settings such as universities or academic medical centers.

Clinical Research Concentration Curriculum

Clinical Research Concentration Required Courses: 25 SCH

BIOS	5725	Nonparametric Statistical Methods	3 SCH
BIOS	5735	Analysis of Variance	3 SCH
BIOS	5740	Introduction to Statistical Packages	3 SCH
BIOS	5760	Data Management	3 SCH
BIOS	6775	Clinical Trials and Survival Analysis	3 SCH
BIOS	6710	Outcome Measurement in Health Care	3 SCH
BIOS	6785	Biostatistical Research and Consulting	4 SCH
HMAP	6210	Health Services Research	3 SCH

Elective Courses: Minimum 9 SCH

BIOS	5720	Survey Sampling	3 SCH
BIOS	6760	Multivariate Analysis	3 SCH
BIOS	6790	Seminar in Biostatistics	3 SCH
BIOS	6910	Doctoral Independent Study in Biostatistics	3 SCH
EPID	5310	Occupational Epidemiology	3 SCH
EPID	5600	Epidemiologic Research Methods	3 SCH
EPID	5610	Chronic Disease Epidemiology	3 SCH
EPID	5630	Infectious Disease Epidemiology	3 SCH
EPID	6620	Survey Methodology	3 SCH
EPID	6625	Tropical Diseases Epidemiology	3 SCH
HMAP	5240	Health Politics and Policy	3 SCH

HMAP	5245	Health Economics	3 SCH
HMAP	5260	Health Information Systems	3 SCH
HMAP	6200	Organizational Management	3 SCH
SCBS	6400	Research Methods in Social and Behavioral Sciences	3 SCH

Clinical Research Concentration Learning Objectives

After the completion of the concentration curriculum in clinical research, the graduate will be able to:

1. Conduct experimental research in public health such as community trials and clinical trials in collaboration with other health professionals.
2. Conduct biostatistical research as applied to health care and public health issues.
3. Assist in the planning, development and evaluation of health systems and programs using biostatistical procedures.
4. Assist in the planning, development and evaluation of treatment outcome data collection in a broad array of health care facilities.
5. Analyze and solve a public health issue by applying statistical methodology.
6. Communicate findings of the analysis and solution of a problem of health care and public health importance in professional journals.
7. Plan and conduct independent research focusing on the analysis and solution of a problem in health care or clinical research, via the completion of a doctoral dissertation.

Epidemiology Concentration

Karan Singh, Ph.D., Interim Department Chair
 UNT Health Science Center School of Public Health
 Center for BioHealth
 817-735-2242
ksingh@hsc.unt.edu

This concentration is designed for health professionals who would like to become leaders in public health, specifically in epidemiology and other related areas. The Department of Epidemiology coordinates this concentration. Graduates will be able to develop their careers in academia, public health institutions or health-care facilities. They will understand public health policies and practices, identify key elements for decision-making, and be able to plan and evaluate health systems and public health programs by using epidemiologic methodology. This concentration provides the expertise and experience to plan, develop, and evaluate epidemiologic surveillance systems. Students will also gain the epidemiologic knowledge and skills to be able to plan and conduct applied epidemiologic research as independent researchers or as members of research teams. A doctoral dissertation is required providing the opportunity to apply the knowledge gained during coursework and other academic activities. The dissertation is expected to analyze and propose solutions to a problem with implications for public health practice, often by translating and applying new theoretical and technical advances to current problems in public health. Graduates of this program will be able to undertake professional, managerial or leadership positions in public health departments or academic settings, such as schools of public health, epidemiologic research institutions, hospitals or other medical facilities.

Epidemiology Concentration Curriculum

Required Courses: 12 SCH

BIOS	5745	Biostatistics in Epidemiology	3 SCH
EPID	5620	Theory & Practice of Epidemiology	3 SCH
EPID	6630	Quantitative Epidemiologic Methods	3 SCH
EPID	6615	Epidemiologic Surveillance	3 SCH

Elective Courses: 16 SCH

BIOS	5720	Survey Sampling	3 SCH
BIOS	5725	Nonparametric Statistical Methods	3 SCH
BIOS	5740	Introduction to Statistical Packages	3 SCH
BIOS	6770	Survival Analysis	3 SCH
EPID	5610	Chronic Disease Epidemiology	3 SCH
EPID	5630	Infectious Disease Epidemiology	3 SCH
EPID	5660	Epidemiology of Diseases of Public Health Importance	3 SCH
EPID	5690	Epidemiology of Bioterrorism/Catastrophic Events	3 SCH
EPID	6610	Cardiovascular Disease Epidemiology	3 SCH
EPID	6620	Survey Methodology	3 SCH
EPID	6625	Tropical Diseases Epidemiology	3 SCH
EPID	6640	Environmental Epidemiology	3 SCH
EPID	6670	Cancer Epidemiology	3 SCH
EPID	6690	Occupational Epidemiology	3 SCH
EPID	6910	Doctoral Independent Study in Epidemiology	3 SCH
HMAP	5240	Health Politics and Policy	3 SCH
HMAP	5245	Health Economics	3 SCH
HMAP	6200	Organizational Management	3 SCH
SCBS	5220	Ethnicity, Culture and Health	3 SCH
SCBS	6170	Qualitative Research Methods	3 SCH

With approval of the advisor, students may substitute an elective course not on this list

Epidemiology Concentration Learning Objectives

After the completion of the concentration curriculum in epidemiology, the student will be able to:

1. Conduct epidemiological evaluations for public health programs.
2. Assist in the planning, development and evaluation of health systems and programs using epidemiologic methodology.
3. Plan, develop and evaluate epidemiologic surveillance systems.
4. Analyze and solve a public health issue by applying epidemiologic methodology.
5. Communicate findings of the analysis and solution of a problem of public health importance in professional journals.
6. Plan and conduct independent research focusing on the analysis and solution of a problem in public health practice.

Health Management and Policy Concentration

Adela Gonzalez, M.P.H., Ph.D., Interim Department Chair
 UNT Health Science Center School of Public Health
 Education and Administration Building
 817-735-5440
agonzale@hsc.unt.edu

This concentration is designed for health professionals who want to become leaders in health management and policy in the public and private, for-profit and not-for-profit, health sectors. The Department of Health Management and Policy coordinates this concentration. The graduate of this program will understand and apply skills relevant to health policy development and analysis, management practices, and health services research. Two research papers and a dissertation will provide the opportunity to apply the knowledge and skills gained during coursework and a residency practice. The dissertation is expected to analyze and propose solutions to health management or policy problems by applying new theoretical or analytic advances to current problems in health care. Graduates will be able to start or develop their careers in state or federal government health programs, academia, or health care provider organizations.

Health Management and Policy Concentration Curriculum

Required Courses: 18 SCH

HMAP	5240	Health Politics and Policy	3 SCH
HMAP	5245	Health Economics	3 SCH
HMAP	5430	Health and Public Health Law	3 SCH
HMAP	6200	Organizational Management	3 SCH
HMAP	6210	Health Services Research	3 SCH
HMAP	6215	Health Insurance and Managed Care	3 SCH

Elective Courses: 12 SCH

HMAP	5255	Finance for Health Management	3 SCH
HMAP	5260	Health Information Systems	3 SCH
HMAP	6220	Advanced Health Economics	3 SCH
HMAP	6225	Quality Management in Long-Term Care	3 SCH
HMAP	6230	Public Health and Long-Term Care Policy	3 SCH
HMAP	6910	Doctoral Independent Study in Health Mgmt. & Policy	3 SCH
SCBS	5220	Ethnicity, Culture and Health	3 SCH
SCBS	6170	Qualitative Research Methods	3 SCH

Health Management and Policy Concentration Learning Objectives

After the completion of the concentration curriculum in health management and policy, the student will be able to:

1. Conduct management and policy analysis of health issues using advanced quantitative and qualitative techniques.
2. Synthesize knowledge of the political and legal system and affect changes to health policies and programs within various systems.
3. Plan and evaluate health programs in the public and private sectors.
4. Apply ethical frameworks to the conduct of health care research, practice, policy-making and management.
5. Conduct research focusing on the analysis and solution of management and policy issues in public health practice.

Social and Behavioral Sciences Concentration

Adela Gonzalez, M.P.H., Ph.D., Interim Department Chair
 UNT Health Science Center School of Public Health
 Education and Administration Building
 817-735-2371
agonzale@hsc.unt.edu

The concentration in social and behavioral sciences in public health is designed for social and health professionals that want to prepare themselves in research, teaching, and other leadership positions involving the design, development and evaluation of public health programs, as well as application of social and behavioral sciences to the development of intervention strategies for health promotion and disease prevention. The first part of the coursework training is focused on the core knowledge of public health, development of leadership skills, and the study of ethical and economic issues in public health. The concentration courses include quantitative and qualitative research methods as applied to social and behavioral sciences in public health. The program also relies on theoretical perspectives in sociology and psychology. Students may also further develop their training in medical anthropology, health education, latino health, community health, social marketing and health communication by taking further elective coursework and research. One research paper and a dissertation will provide the opportunity to apply the knowledge and skills gained during coursework and a residency practice. Graduates will be able to develop their careers in state or federal government health programs, academia, or health care provider organizations.

Social and Behavioral Sciences Concentration Curriculum Required Courses: 9 SCH

SCBS 6170	Qualitative Research Methods	3 SCH
SCBS 6300	Health Behavior Theory and Practice	3 SCH
SCBS 6405	Disparities in Health	3 SCH

Elective Courses: 15 SCH

BIOS	5720	Survey Sampling	3 SCH
BIOS	5725	Nonparametric Statistical Methods	3 SCH
BIOS	5740	Introduction to Statistical Packages	3 SCH
HMAP	5240	Health Politics and Policy	3 SCH
HMAP	5245	Health Economics (Required for HMAP)	3 SCH
HMAP	6200	Organizational Management	3 SCH
SCBS	5220	Topics in Culture, Race/Ethnicity and Health	3 SCH
SCBS	5225	Medical Anthropology	3 SCH
SCBS	5230	Community Health Education Strategies	3 SCH
SCBS	5400	Community Health	3 SCH
SCBS	5410	Community Assessment	3 SCH
SCBS	5430	Health Communication Strategies in Public Health	3 SCH
SCBS	6410	Latino Health	3 SCH
SCBS	6420	Health Promotion in Multicultural Populations	3 SCH
SCBS	6430	Medical Sociology, Social Capital and Health	3 SCH
SCBS	6910	Doctoral Independent Study in Social & Beh. Sciences	1-3 SCH

Social and Behavioral Sciences Concentration Learning Objectives

After the completion of the concentration curriculum in social and behavioral sciences, the student will be able to:

1. Occupy leadership positions in health care organizations such as public health departments, health-care facilities, federal or state health departments or academia.
2. Carry out a community diagnosis/assessment in order to facilitate problem solving and policy development.
3. Design, plan, develop and evaluate programs of health promotion and disease prevention using quantitative and qualitative techniques.
4. Understand the social and behavioral aspects of public health and how they affect the health of individuals and the community.
5. Identify social, cultural, economic and gender related determinants of health and how to develop effective behavioral changes and other interventions which are culturally sensitive.
6. Develop his/her public health career on social science theories, health education, community health, health promotion, and health education.
7. Apply ethical frameworks to the conduct of health care research, practice, policy-making and management.
8. Understand, analyze and write journal articles, focusing on social and/or behavioral aspects in public health.
9. Write a dissertation, focusing on the analysis and solution of social and/or behavioral issues in public health.

4 Policies: Academic & Institutional

Academic policies can be changed at any time by the School of Public Health. Students should review the Student Handbook for additional policies and procedures concerning their roles as students.

Enrollment of Continuing Students

A continuing student is defined as a student who enrolls in one of three consecutive semesters. Example: enrolls Summer 2004, no enrollment Fall 2004 or Spring 2005, re-enrolls Summer 2005. Continuing students do not need to reapply to the School of Public Health to take classes if they meet all of the following conditions:

1. The student has not received a degree from the health science center since last enrollment;
2. The student does not have any current holds on his or her record (i.e., immunizations or academic); and
3. The student has not attended any other academic institution during his/her absence from the health science center.

Students who do not meet these requirements must give a written explanation of the facts surrounding the situation to the School of Public Health Office of Student Services and Academic Affairs for consideration. Students who are unsure if they meet all of the above conditions for re-enrollment should contact the School of Public Health Office of Student Services and Academic Affairs at sph@hsc.unt.edu or 817-735-2401 before the registration period.

Re-admission of Former Students

Students who previously have been admitted to the School of Public Health but have not enrolled during the last three consecutive semesters (i.e., Fall, Spring, Summer) must follow these re-admission procedures:

1. File an admission application by the deadline for admission as established in the Academic Calendar.
2. Submit transcripts from all colleges attended (if any) since leaving the health science center showing eligibility to re-enroll at each institution.
3. Former students who have not enrolled elsewhere since leaving the health science center and are in good academic standing are required only to submit an admissions application and the application fee.
4. All completed applications are reviewed by the department chair for which the student is re-applying. Admissions decisions will be communicated to the student by the Office of Student Services and Academic Affairs.

Non-Degree Admission of Students

Admission to the School of Public Health as a non-degree seeking student may be granted subject to the following provisions:

1. The applicant must meet all of the general admission requirements described in Chapter 2 and must meet all application deadlines.

2. The student in this status is required to receive credit in all courses taken and must maintain a minimum grade of B in each course attempted.
3. A student in non-degree status has been accepted to take courses at the School of Public Health with no intent on seeking full admission status. Additionally, there is no assurance that work completed under this status will be applicable toward degree requirements should he or she subsequently be admitted to a degree program at the health science center.
4. A maximum of 12 SCH are allowed while in this status.
5. Non-degree seeking students are not eligible for financial aid.

Use of Transfer Credit

A student who holds a bachelor's degree may apply up to 12 SCH of appropriate graduate work completed elsewhere toward a master of public health degree if the coursework has not been used toward the completion of another degree. A maximum of 12 SCH of graduate work beyond a master's degree may be accepted and credited toward a doctor of public health degree if the coursework has not been used toward the completion of a master's or doctoral degree. All transfer credits are subject to the approval of the department chair. Requests for waiving a core course with transfer credit must be approved by the appropriate department chair and instructor associated with the course. The request must be accompanied with documentation showing that the previous coursework is comparable to the requirements of the core course. Only those courses with a grade of B or higher from an accredited institution will be transferred. These courses must have been completed within six years of the date of first acceptance for the M.P.H. program and seven years for the Dr.P.H. program. Any course work from a prior degree may not be transferred toward the M.P.H. or Dr.P.H. degree. It is the student's responsibility to make sure that official transcripts of courses completed elsewhere are furnished to the School of Public Health Office of Student Services and Academic Affairs.

Change of Department/Concentration Area

Students who wish to change departments or their area of concentration must submit a new application, statement of professional goals and resume to the Office of Student Services and Academic Affairs. There is a \$25 processing fee. The student's new application and academic file will be forwarded to the chair/faculty of the new department/concentration for review and an admissions decision will be sent to the Office of Student Services and Academic Affairs.

The Office of Student Services and Academic Affairs will then notify the student of the admissions decision. If the student is admitted to the new concentration, the outgoing department will be notified by the School of Public Health Office of Student Services and Academic Affairs.

Academic Misconduct

Cheating and plagiarism are types of academic misconduct for which penalties are described and assessed under the health science center's Code of Student Conduct and Discipline. Students in the School of Public Health who are found in violation of this policy will be suspended for the remainder of the current semester plus one full semester.

The term "cheating" includes, but is not limited to: (1) use of any unauthorized assistance in taking quizzes, tests, or examinations; (2) dependence upon the aid of sources specifically prohibited by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; and (3) the acquisition, without permission, of tests or other academic material belonging to a faculty or staff member of the health science center.

The term “plagiarism” includes, but is not limited to, the use, by paraphrase or direct quotation, of the published or unpublished work of another person without full and clear acknowledgement. Plagiarism also includes the unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials. All sources (i.e., internet web pages) must be cited appropriately.

Specific penalties can be assigned by a faculty member for certain cases of academic misconduct (including cheating and plagiarism). These penalties include: giving a failing grade for the test or assignment; reducing or changing the grade for the test, assignment, or course; requiring additional academic work not required of other students; and assigning a failing grade in the course. Other specific penalties can be recommended by a faculty member to the appropriate administrative/academic authority, including denial of the degree, expulsion from the health science center or revocation of a degree already granted.

All students are responsible for making themselves aware of the definitions and implications of academic misconduct. For further information on academic misconduct, penalties and appeal procedures, the student should refer to the Student Handbook available through the Office of Student Affairs.

Appeal Processes

Specific policies and procedures have been established for students seeking to appeal an admissions decision, a grade in a course, or an extension of time to complete a degree. The policies are outlined below:

1. Appeals concerning admission to the school should be addressed to the chair of the department for which the student is seeking admissions.
2. Advice concerning how to pursue appeals on any other matter can be sought from the School of Public Health Office of Student Services and Academic Affairs.
3. The policy and procedures for requesting an extension of time to complete a degree are available through the School of Public Health Office of Student Services and Academic Affairs. A petition for an extension of time must be made to the Executive Director of Student Services and Academic Affairs.

Grade Appeal Policy and Procedures

1. Any student who believes that a grade has been inequitably awarded should first contact the instructor who awarded the grade in order to discuss and attempt to resolve the issue. Any instructor no longer associated with the health science center at the time of the appeal will be represented in these proceedings by the department chair over the concentration in question. The student who is unable to resolve the differences with the instructor has 30 days following the first class day of the succeeding semester to file a written appeal with the appropriate department chair. If the instructor is the department chair, the appeal should be submitted to the dean, who will act as a substitute for the department chair in the following action.
2. The department chair may follow any of the four procedures below or a combination of them:
 - The department chair may confer with the instructor.
 - The department chair may request that the instructor submit a written reply to the student's complaint.
 - The department chair may conduct a meeting of the two parties.

- The department chair may refer the case directly to the dean, as outlined below. In following any of the first three procedures noted above, the department chair should make a judgment on the merits of the case and determine a specific action in regard to the disputed grade. Either the student or the instructor may appeal the decision of the department chair to the dean who will in turn establish an ad hoc committee to review the case. This appeal must be submitted in writing within two working days of the notice of decision from the department chair.
3. The ad hoc committee shall be constituted as follows and shall perform the following duties:
 - The ad hoc committee will consist of three School of Public Health faculty members. One faculty member will be selected by the student and the other by the instructor. If either party involved in the dispute declines to choose a member of the committee, the dean will select that member. The third faculty member of the committee, who will serve as chair, will be chosen by agreement of the student and the instructor. If they cannot agree upon a third member, the member will be chosen by the dean.
 - This ad hoc committee should require written statements from each participant in the dispute. Judgments may be rendered upon the basis of these statements, upon other evidence submitted in support of the statements, and upon the facts outlined in an oral hearing, if such a hearing is deemed necessary.
 - The committee must make a recommendation for disposition of the case within 30 days of its appointment.
 - All records in the case will be filed with the School of Public Health Office of Student Services and Academic Affairs.
 4. If the appeal is based solely upon alleged violations of established procedures, either party to the dispute has 5 working days following the rendering of the ad hoc committee's decision to appeal that decision to the dean. Substantive matters, up to and including the refusal of the instructor to act in accordance with the ad hoc committee's recommendation or the student's refusal to accept the decision, may not be appealed to the dean.
 5. The dean, after a review of the submitted written materials (and oral hearings if necessary), will make (within 15 days) a ruling about procedural questions.

Application for the Completion of the Degree

It is the responsibility of the student to keep track of their progress toward the degree and to file an Intent to Graduate form in the School of Public Health Office of Student Services and Academic Affairs. Consult the Academic Calendar for the appropriate dates. The applicant's grade point average on all work attempted must be at least 3.0 to be considered for candidacy.

Because of the time required to receive transcripts, students otherwise eligible for graduation who complete their last course or courses elsewhere will not graduate at the end of the semester or summer session in which the work is completed, but will receive their degrees at the close of a subsequent semester. This delay is needed to receive and evaluate transcripts.

Information concerning graduation fees is furnished upon request by the School of Public Health Office of Student Services and Academic Affairs and is contained in Chapter 5 of this document. Students anticipating graduation should consult the Academic Calendar for important dates regarding payment of fees and other graduation requirements.

Auditing

With the written permission of the instructor, an individual fully eligible to enroll in the School of Public Health may sit in a class as an auditor without receiving credit. The auditor's name will not be entered on the class roll, and the instructor will not accept any papers, tests or examinations.

Attendance as an auditor may not be used as the basis of a claim for credit in the course. Students who are enrolled for credit may audit classes without payment of additional fees; others may be subject to pay an auditor's fee (\$152).

A person 65 years of age or older may enroll as an auditor and observer without credit and without payment of an audit fee if space is available and if approved by the instructor. Such enrollment entitles the person to library privileges, but not the use of laboratory equipment, supplies, or health/hospital benefits.

For additional questions, students should contact the Office of Student Services and Academic Affairs.

Class Attendance

Regular and punctual class attendance is expected. Although, in general, students are graded on intellectual effort and performance, absences may lower the student's grade where class participation is deemed essential by the faculty member. In those classes where participation is considered as part of the grade, the instructor should give written notice of the requirement at the beginning of the semester. An instructor may request the Registrar to drop a student from a course for lack of participation or one unexcused absence.

If the instructor-initiated drop action falls within the time that the student is eligible to drop with instructor consent, a W will be assigned. If the drop falls after this period, a W or WF will be assigned as appropriate.

Concentrations and similar academic units have authority to establish a concentration-wide or course-wide policy so long as the policy is in accord with the above stipulations.

Commencement Exercises

The UNT Health Science Center commencement exercises are held the third Saturday in May each year. Diplomas may be obtained from the Registrar's Office at the conclusion of any semester in which all graduation requirements have been met and verified.

Concurrent Enrollment at Another Institution

Students must secure written permission from the advisor and department chair before registering for any course or courses at another institution while registered for any courses at the health science center. Failure to secure the required permission for concurrent enrollment prior to registration at the second institution may cause the health science center to refuse degree credit for the work taken elsewhere.

Adding Courses

Students may add courses on-line. In order to be eligible for adding courses, students must have registered for coursework during the regular or late registration time period. If they have difficulties doing so, students should contact the School of Public Health Office of Student Services and Academic Affairs at sph@hsc.unt.edu. All requests must be made in writing. Consult the Academic Calendar for dates during which adds are allowed.

Dropping Courses

Students who wish to drop a course may do so on-line through the 12th/4th class day (see Academic Calendar for specific dates). After the 12th/4th class day, students who wish to drop a course must complete the Instructor Approval to Drop form which can be obtained from the Registrar's Office. The instructor or advisor may withhold consent for students to drop for any reason providing the instructor has informed students in writing at the beginning of the semester. If the drop results in non-enrollment, refer to the following section on "Withdrawal from the Health Science Center."

The grade of W is recorded for any course dropped with the instructor's consent before the end of the fourth week of classes (summer term, end of the second week). After that time the student must have a passing grade in order for the instructor to assign a grade of W for a dropped course; otherwise, the grade WF is recorded.

Instructors may drop students with grades of WF from courses for non-participation at any time after the fourth week of classes (summer term, after the second week). See "Class Attendance" above.

Drop procedures must be completed by 5 p.m. on the deadline dates specified in the Academic Calendar. After these dates, a student may not drop a course for any reason.

Withdrawal from the Health Science Center

A student may withdraw from the health science center at any time. To receive a W, the student must complete the withdrawal prior to the deadline specified in the Academic Calendar by making a request in the Registrar's Office. A student who withdraws by the appropriate deadline will receive a grade of W for each course in which they were enrolled. After the deadline, a withdrawn student receives a grade of W only for those courses in which there were passing grades at the time of withdrawal; otherwise the grade WF is recorded.

Official dates and deadlines for withdrawing are specified in the Academic Calendar.

Course Offerings

Individual courses are subject to change or withdrawal at any time and may not be offered each semester of every year. Any course may be cancelled from current offerings if the number of registrants is too small to justify conducting the course.

Enrollment Certification

Enrollment verification and loan deferments are completed in the Registrar's Office based upon the student's having registered and paid tuition and fees according to the criteria listed under "full-time enrollment" below.

International students may also request the International Student Service Office (UNTHSC Financial Aid) to issue letters of enrollment for the use of foreign governments, embassies, scholarship agencies and banks. See the School of Public Health Office of Student Services and Academic Affairs for details.

Full-time Enrollment

A student must enroll for nine semester hours for each long semester to be considered full-time. Enrollment in a total of six semester hours is considered full-time for the summer.

A student who has completed all but the dissertation, thesis, professional report or capstone requirement for the degree will be considered full-time if enrolled in three semester credit hours.

Students are responsible for meeting enrollment requirements for federal or state financial aid purposes.

Grading System

The School of Public Health uses the letters A, B, C, D, F, P, NP, I, PR, W, WF and Z in the grading system.

- A Excellent work; four grade points for each semester hour (90-100).
 - B Good work; three grade points for each semester hour (80-89).
 - C Poor work; two grade points for each semester hour (70-79).
 - D Unacceptable work; one grade point for each semester hour (60-69).
 - F Failure; given when a student: 1) has failed the course while still officially enrolled at the end of the semester; 2) is failing in a course and misses the final examination without satisfactory explanation; or 3) stops attending class without completing an official drop or withdrawal (59 and below).
 - P Passed; a credit grade on pass/no pass option in selected individual problems and research courses.
 - NP Not passed; a failing grade on the pass/no pass option.
 - I Incomplete; a nonpunitive grade given only during the last one-fourth of a semester and only if a student is: 1) passing the course; 2) has a justifiable reason why the work cannot be completed on schedule; and 3) arranges with the instructor to finish the course at a later date by completing specific requirements which the instructor must list on the grade sheet. For information on removal of I, see "Removal of I" below.
 - PR Assigned at the close of each semester in which the student is enrolled in dissertation, thesis, or professional report hours. No credit hours are shown when the grade of PR is assigned. When the work has been completed and submitted to the major professor and department chair, appropriate grades and credit hours will be shown on the students' record for the required number of credits.
 - W Drop or withdrawal without penalty. Given when a student drops a course or withdraws from the school according to the dates in the Academic Calendar. See regulations for dropping and withdrawing.
 - WF Drop or withdrawal with failing grade. May be assigned if a drop or withdrawal is not completed by the dates listed in the Academic Calendar. See regulations for dropping and withdrawing.
 - Z Used to indicate that a grade was not properly received and/or recorded for a course. Courses assigned D, F, I, NP, PR, W, WF, or Z are not counted toward the degree but are presented on transcripts as courses attempted.
- A complete record of all previously used grades and grading systems is detailed on the official transcript.

Grade Point Average

The overall grade point average (GPA) is used to determine academic standing and eligibility for graduation. All GPA calculations are subject to post-audit and correction by the Registrar's Office.

The number of semester hours attempted for calculation of the GPA includes all courses with grades of A, B, C, D, F, and WF unless replaced by a later grade. Courses with grades of I, NP, P, PR, W, or Z are not counted as courses attempted for the purpose of calculating a GPA.

Quality of Work Required

Students must make satisfactory progress toward completion of degree requirements.

Unsatisfactory progress toward a degree is defined as:

- obtaining a grade of D, F, or NP in any course attempted;
- obtaining a grade of C in two or more courses at any point during the degree program;
- having a cumulative GPA below 3.0;
- withdrawal from multiple courses;
- withdrawal from the same course on multiple occasions;
- carrying multiple incompletes; or
- not maintaining continuous enrollment in thesis, professional report, dissertation or other course with this requirement.

Probation and Dismissal

A student who fails to make satisfactory progress toward a degree will be placed on Academic Probation. Unsatisfactory progress is defined in the section above. Therefore, upon receiving two C's, one D, or one F, a student will be placed on Academic Probation for the duration of their degree program. Work completed elsewhere while on probation at the health science center may not be counted for credit at the health science center. Once on Academic Probation, a student who receives a C, D, F, NP, I, or WF will be Dismissed from the program. Upon Dismissal, the student is not permitted to return to a degree program at the UNT Health Science Center School of Public Health. Appeals to a Dismissal must be made to the Dean of the School of Public Health.

Repeating Courses

Students must obtain a passing grade (A, B, C, or P) for each core or required course. If a passing grade is not made in a core or required course, the student must repeat it and obtain a passing grade before credit will be given toward completion of graduation requirements. If a student does not receive a passing grade in an elective course, the student may repeat the course or, with the approval of the student's academic advisor and the appropriate department chair, the student may choose to take another elective course. If a passing grade is obtained on the new elective course, the student may count it toward graduation requirements. However, the failed course will remain on the transcript and will be calculated to determine the student's cumulative GPA. Courses taken at the UNT Health Science Center School of Public Health may not be repeated at other institutions and transferred for credit toward a degree at the UNT Health Science Center.

Grade Changes

No grade except “I” may be removed from a student’s record once properly recorded. Changes are not permitted after grades have been filed except to correct clerical errors.

Requests for an error correction must be initiated immediately after the close of the semester for which the grade was recorded.

A faculty member who believes that an error has been made in calculating or recording a grade may submit in person a request for a grade change to the department chair and the dean. The Registrar accepts requests for grade changes only from the dean.

Grade Reports

Grade reports for each student are available online; they include a statement of current academic status. If the grade report or the academic status is believed to be in error, the student should contact the Registrar’s Office within 30 days.

At midsemester in the long sessions, instructors may provide individual written warnings to students whose coursework is unsatisfactory. These warnings are mailed from the Registrar’s Office upon request of the instructor.

Pass/No Pass Grading

The School of Public Health may elect to assign pass/no pass grades in graduate-level courses in which the student is engaged in individual research and is not attending an organized class. The student should inquire at the time of registration for such courses whether a letter grade or a pass/no pass grade will be granted. Pass/no pass grades are not taken into account in computing the student’s grade point average.

Removal of I

A student must remove a grade of “I” within 60 days of the first day of the subsequent semester. A student may request an extension of the time allotted to complete the requirements for the removal of an “I.” The request must be made in writing to the faculty member who assigned the “I.” The faculty member and their department chair must approve the extension. Upon approval, the faculty member and the department chair must sign the original letter and forward it to the School of Public Health Office of Student Services and Academic Affairs. The original letter (may be in the form of an email) must specify the exact length of the extension (not to exceed 60 days), the reason for the extension, and a description of the work required to complete the course.

An “I” is removed by completing the stipulated work, obtaining signatures of the instructor and the dean (on a permit form available from the School of Public Health Office of Student Services and Academic Affairs), paying the \$5 fee and returning the permit form to the instructor. The instructor then files the permit form in the School of Public Health Office of Student Services and Academic Affairs, along with the grade, and the grade point average is adjusted accordingly. If a student does not complete the stipulated work within the time specified, a grade of F will be recorded. If a grade of A, B, or C is not assigned, the student will be required to register for and repeat the course for it to count toward the degree plan. The GPA is adjusted accordingly.

A student who could not complete final examinations because of illness may remove a grade of “I” without payment of the fee. The Director of Admissions and Student Services is authorized to waive the fee upon certification of illness signed by the attending physician.

Open Records Policy

Pursuant to the provisions and intent of Article 6252-17a, Texas Civil Statutes, known as the Open Records Act, and the Family Educational Rights and Privacy Act of 1974 as amended, known as the Buckley Amendment, the school has established a policy relating to the accessibility of information in the custody of the University of North Texas Health Science Center.

Student records that include general information concerning the student and the student's individual relationship to the educational institution are available on request to health science center personnel who have an educational interest in the records, the student, and the student's parent or legal guardian if the student is a dependent for income tax purposes of the parent or legal guardian.

For information regarding the health science center's policy on access to records and to request accessibility to center records, contact the designated Custodian of Public Records, Office of the Vice President and General Counsel, UNT Health Science Center.

Student Conduct

The health science center's primary concern is the student. It attempts to provide for all students an environment that is conducive to academic endeavor, social growth and individual self-discipline. Enrollment at the health science center is considered implicit acceptance of the rules, regulations, and guidelines governing student behavior promulgated by the institution, and the student is responsible for this information. In addition, all students are expected to familiarize themselves with the requirements of and obey all federal, state, and local laws. Any student who violates a provision of those laws is subject to disciplinary action, including expulsion, notwithstanding any action taken by civil authorities on account of the violation. The health science center reaffirms to each student the privilege of exercising the student's rights of citizenship under the Constitution of the United States. Special care is taken to assure due process and to identify the defined routes of appeal when students feel their rights have been violated. For complete policy information, consult the Student Code of Conduct in the Student Handbook.

Student Load

Special restrictions apply to the load permitted to teaching assistants. The total load of course enrollment and teaching assignment may not exceed 18 semester hours in any long semester and 9 in the summer semester. Approval of the advisor and department chair is required for loads in excess of this amount.

Summons

In the event a student's conduct of behavior is found to be in violation of a published policy or regulation, a summons may be issued. A summons is an official request that the student appear before a health science center administrator. It is always important and must have the student's immediate attention. Failure to answer a summons can result in immediate disciplinary action, including suspension.

Time Limitations

All requirements for the Master of Public Health degree must be completed within six years. All requirements for the Doctor of Public Health degree must be completed within seven years.

Time limits are strictly enforced. Students exceeding the time limit may be required to repeat out-of-date credits, and/or show other evidence of being up-to-date in their major field of study. Students anticipating that they will exceed the time limit should apply for an extension before the normal time period to complete the degree expires. Holding a full-time job is not considered in itself sufficient grounds for granting an extension.

Time spent in active service in the U.S. armed forces will not be used in computing the time limit. However, career members of the armed forces should consult the School of Public Health Office of Student Services and Academic Affairs concerning credit given to work completed before or during active military service.

Leave of Absence

A student may request a leave of absence from the School of Public Health Office of Student Services and Academic Affairs. A leave of absence must be approved by the appropriate department chair and the Executive Director of Student Services and Academic Affairs. A leave of absence may only be granted for a maximum of one year. A leave of absence may be extended upon an annual request and review.

Degree Plan

A degree plan listing all courses must be completed by the student, approved by the student's advisor and department chair, and submitted to the School of Public Health Office of Student Services and Academic Affairs before the completion of the first semester of enrollment for all MPH and DrPH students. Please refer to the section on Use of Transfer Credit regarding transferring course work. All subsequent requests for degree plan changes must be submitted in writing by the student to their advisor and department chair for approval. All changes must be submitted to the School of Public Health Office of Student Services and Academic Affairs. A degree plan must follow the guidelines stated in the catalog for the Academic Year in which it is filed.

Institutional Policies

Respect for Diversity

The Nondiscrimination/Equal Employment Opportunity and Affirmative Action Policy affirms the requirement for every member of the UNT Health Science Center community to comply with existing federal and state equal opportunity laws and regulations.

The UNT Health Science Center is committed to the philosophy of a multicultural environment. The institution prohibits harassment based on race, gender, disability, age, national origin, religion, veteran status or lifestyle.

The health science center has long been an open, tolerant and democratic institution, proud of its commitment to personal and academic excellence, but unpretentious in the atmosphere of its campus in its willingness to accept all members of the health science center community on their value as human beings.

The increasing diversity of the UNT Health Science Center community is one of the institution's greatest strengths. Differences of race, religion, age, gender, culture, physical ability, language, nationality and lifestyle make it a microcosm of the nation as a whole, reflecting the values of our pluralistic society.

As an educational institution, the UNT Health Science Center is committed to advancing the ideas of human worth and dignity by teaching respect for human beliefs and values and encouraging open discussions. Hatred or prejudice and harassment of any kind are inconsistent with the center's educational purpose.

The UNT Health Science Center is strongly committed to the ethical principle that every member of the community enjoys certain human constitutional rights, including the right to free speech. As a community of scholars, the health science center also is dedicated to maintaining a learning environment that is nurturing, fosters respect, and encourages growth among cultures and individuals represented here. Individuals who work, study, live and teach within this community are expected to refrain from behaviors that threaten the freedom and respect every individual deserves.

Sexual Harassment

A primary objective of the UNT Health Science Center is to provide an environment in which faculty, staff and students may pursue their careers and studies with a maximum of productivity and enjoyment.

Harassment of students on the basis of gender is a violation of Section 106.31 of Title IX of the Education Amendments of 1972. Harassment of health science center employees on the basis of gender is a violation of Section 703 of Title VII of the Civil Rights Act of 1964 and the Texas Commission on Human Rights Act. Sexual advances, requests for sexual favors and other verbal or physical conduct of a sexual nature constitutes sexual harassment.

It is the policy of the health science center to maintain a workplace and a learning environment free of sexual harassment and intimidation. Behavior or conduct that interferes with this goal is not condoned or tolerated.

Americans with Disabilities Act

The UNT Health Science Center does not discriminate on the basis of an individual's disability and complies with Section 504 and Public Law 101-336 (Americans with Disabilities Act) in its admissions, accessibility, treatment and employment of individuals in its programs and activities.

The UNT Health Science Center provides academic adjustments and auxiliary aids to individuals with disabilities, as defined under the law, who are otherwise qualified to meet the institution's academic and employment requirements. For assistance, contact the Equal Employment Opportunity Office at the health science center.

Official Means of Communication for Students

Email is the primary means of communication for all School of Public Health students; therefore, students are expected to read their health science center email regularly. All new students are assigned a GroupWise account at new student orientation. The GroupWise email account will be the official means of communication with students regarding all academic information.

Health Insurance

Proof of insurance must be verified prior to enrollment to the University of North Texas Health Science Center. Insurance policies must remain in effect the entire year to assure uninterrupted benefits through the student health service. Students may obtain insurance from a carrier of their choice or purchase the student health insurance plan available to health science center students.

During orientation, students will be required to sign an insurance verification form, in which the student attests to having health insurance coverage and is aware that if he/she does not have health insurance then he/she will be in violation of the Student Code of Conduct and subject to dismissal from the health science center.

Applications and insurance information for the student health plan may be obtained from the Division of Student Affairs or by calling 817-735-2505.

Physical Examinations

Medical history and physical examinations are required of all medical and physician assistant students. The Health Science Center Medical History, Physical Examination, and Immunization forms can be mailed to students or are available online at <http://www.hsc.unt.edu/education/studenthealth/forms.htm>. The student may have the physical exam done by his/her physician or at the health science center's student health clinic. Please note: the UNT Health Science Center Physical Examination Form must be completed by the physician administering the physical exam. To schedule an appointment at the Student Health Clinic, call 817-735-2228, identify yourself as an entering student and ask for an appointment in student health. The clinic is located on the second floor of the Patient Care Center (see map).

Immunizations

All entering students are required by state law and/or the UNT Health Science Center to have documented immunity or immunization to the following diseases prior to registration.

Students will be responsible for the cost of all immunizations. Tuberculosis skin testing will be done at no charge. Completion of vaccination or written proof of vaccination or immunity must be provided at the time of each enrollment. The following are vaccinations that are required for attendance at the health science center:

- MMR (measles, mumps and rubella) - 2 doses. Must complete the series or provide written proof of vaccination or immunity (titers that indicate immunity of all three).
- Hepatitis B series – 3 doses (initial, 1 month, and 6 months). Must complete series or provide written proof of immunity (hepatitis B antibody titer >10). It is important to keep these vaccinations on schedule.
- Td (adult tetanus/diphtheria). Written proof of vaccination within the past 10 years.
- Varicella - 2 doses (initial and 4-8 weeks later) unless given before the age of twelve. Must complete series or provide written proof of immunity (varicella titer). Childhood history of chickenpox is sufficient if written proof is submitted by provider or parent of School of Public Health students. History of disease is not sufficient.

- PPD (skin test for pulmonary tuberculosis). TB skin testing will be done upon admission for all students and annually for medical and physician assistant students. If you have had a positive PPD or have been treated in the past for a positive PPD or active TB disease, provide written proof of PPD test results, chest x-ray and treatment received (if any). BCG vaccine does not eliminate the need for skin testing or follow-up treatment. There is no charge for PPD testing. Follow-up for positive skin tests will be directed by Student/Employee Health and will be the financial responsibility of the student.
- Other vaccinations that are not required for admission may also be obtained at Student/Employee Health Services. Recommended, but not required, are the Hepatitis A vaccine (2 doses), influenza (offered annually at no cost), pneumococcal, and meningitis (students living in dorms).

To ensure a smooth registration process, students are strongly encouraged to complete arrangements for health insurance and immunizations as soon as possible by returning completed documentation to the health science center during the first semester of enrollment. Students without an insurance verification form on file, physical examination and proof of immunizations will not be allowed to register for classes during subsequent semesters. There are no exceptions.

Student Travel Policy

It is the policy of the university to promote safety and to encourage students to engage in safe conduct when traveling to and from university activities or events. Accordingly, in addition to encouraging students to use good judgment, the university has adopted this policy and authorized the university Office of Facility Management to approve rules designed to encourage safe behavior on the part of students presently enrolled at the university.

This policy applies to all students enrolled in the university who travel to an activity or event that is organized and sponsored by the university when:

1. the activity or event is located more than 25 miles from the campus from which travel originates; and
2. the travel is:
 - a. required by a student organization properly registered at the university; or
 - b. funded by and requires use of a vehicle owned or leased by the university.

For purposes of this policy, an activity or event is organized and sponsored by the university when it has been planned, funded and properly approved by the appropriate university official.

Students traveling to and from university organized and sponsored activities or events may be required to use various modes of travel and travel under different conditions. Each form of travel requires the student to follow common and mode-specific safety precautions. In addition to following federal and state laws that encourage safe travel, using sound judgment, and following this policy, students traveling to and from events covered under this policy must follow the safe travel rules approved by the university Office of Facility Management. At a minimum, these rules must include provisions concerning:

1. Use of Seat Belts and Other Safety Devices. Seat belts and other safety devices must be used at all times. Students are encouraged to act responsibly and to use sound judgment when traveling.
2. Passenger Capacity. Travel in vans with a capacity to hold 15 passengers must be approved by the university Office of Facility Management. Passenger capacity in 15-passenger vans is strictly restricted to no more than ten (10) individuals, including the driver.

3. **Required Qualifications and Training.** All students who operate vehicles owned or leased by the university must be over eighteen (18) years of age, possess a valid driver's license, have current automobile liability insurance, and have a good motor vehicle driver history. Additionally, these students must satisfy other qualifications and training requirements established by the university Office of Facility Management.
4. **Fatigue and Time of Travel.** Students traveling to and from activities or events covered under this policy should obtain a minimum of six (6) hours sleep before traveling and drive no more than five hundred (500) miles in a twenty-four (24) hour period. Students may not drive between the hours of 10:00 p.m. and 6:00 a.m. unless authorized by the organization advisor or department head.
5. **Privately Owned Vehicles.** Students who use a privately owned vehicle or any vehicle other than those owned or leased by the university when traveling to and from events and activities covered under this policy must follow the safe travel rules approved by the Office of Facility Management and applicable state law.
6. **Air and Other Modes of Commercial Transportation.** Students traveling by air and other modes of commercial transportation must comply with all federal laws regulating the specific mode of travel and the rules of the specific commercial carrier, including laws and rules regarding carry-on baggage and baggage weight restrictions.
7. **International Travel.** Students must comply with university policies and procedures for scheduling for credit international clinical and educational experiences. Students traveling to locations outside the United States are responsible for satisfying all international travel requirements, including obtaining a valid passport, obtaining health and other insurance, establishing safe points of contact in the host country and following travel advisories issued by the United States Department of State, the host country or other recognized international organizations. Students can find information about international travel at the university Study Abroad Center.
8. **Alcohol, Illegal Drugs and Weapons Prohibited.** All students traveling to and from events or activities covered under this policy are prohibited from consuming or possessing alcohol or illegal drugs and transporting weapons in vehicles owned or leased by the university.
9. **Travel Authorization.** Registered student organizations that require their members to travel to events and activities covered under this policy must obtain written approval for the travel by the appropriate university official before the date of the event or activity. When the university provides transportation, students traveling to events must return in the university provided vehicles unless authorized to do otherwise by the appropriate university official. Students under eighteen (18) years of age are not authorized to return in a vehicle other than one provided by the university.
10. **Other Policies.** Students must comply with all other applicable university policies, including but not limited to, Policy 18.00, Institutional General Policy Manual.

Departments that encourage or require one or more students to travel to events and activities covered under this policy are responsible for verifying that students are aware of this policy and the safe travel rules approved by the Office of Facility Management. Departments that permit students to drive any vehicle owned or leased by the university are responsible for ensuring the student meets the driving requirements established by the Office of Facility Management. Departments must report violations of this policy and safe travel rules to the Office of Facility Management.

University employees who authorize students to drive vehicles rented for any university-related business or activities are responsible for ensuring the student meets driving requirements established by state law and the Office of Facility Management. Faculty and staff employees who fail to comply with this policy are subject to disciplinary action in accordance with applicable provisions of the faculty handbook and the staff personnel manual.

Individual students who violate this policy and the safe travel rules approved by the university Office of Facility Management are subject to disciplinary action, to include suspension. Student organizations that violate this policy and the safe travel rules are subject to disciplinary action, to include suspension and loss of funding.

Motor Vehicle Registration

Those who operate motor vehicles and bicycles on campus must comply with the Texas Uniform Traffic Code and the published center regulations regarding vehicle and bicycle use, parking, display of decals, and penalties for violations.

ID Cards

Identification cards are issued during new student orientation. These must be worn at all times while the student is on campus, or, if applicable, on preceptorships, internships, and clinical rotations.

The ID card is void upon termination or interruption of enrollment and when not properly encoded. Fraudulent use of an ID card subjects the user to a fine of \$2,000 and up to one year in jail (Class A Misdemeanor). Anyone who uses the ID card to give false information to a police officer is subject to a fine of \$2,000 (Class C Misdemeanor).

Replacement ID cards may be purchased for a \$15 fee. Please contact Biomedical Communications at 817-735-2470 for more information. A stolen card should be reported to Campus Police immediately.

5 Fiscal & Financial Aid Policies

Tuition and Mandatory Fees

The amounts shown in this catalog are subject to change without notice by action of the Texas Legislature or the University of North Texas Board of Regents. For current information on tuition and fees, inquire in the School of Public Health Office of Student Services and Academic Affairs.

The UNT Board of Regents has been granted the authority, within established guidelines, to set School of Public Health tuition rates by program.

Tuition is \$77 per credit hour for in-state residents and \$293 per credit hour for out-of-state students.

The UNT Health Science Center is a state-supported institution subject to state laws. Extension of credit is prohibited and all financial obligations to the health science center must be paid when due.

Any outstanding obligation must be cleared prior to registration in the next subsequent semester.

Explanation of Fees

Admission Application Fee: All applicants new to the University of North Texas Health Science Center must pay a non-refundable admission application fee. A standard application fee of \$25 is charged to all U.S. citizens. Non-U.S. citizens and permanent residents must pay a \$75 fee, which includes the application fee and a foreign transcript evaluation fee.

Tuition Fee Board Designated: Tuition fees are collected in proportion to the number of semester credit hours for which a student registers. These fees are used for the occupancy, services, use and/or availability of all or any health science center property, buildings, structures, activities, operations or other facilities.

Student Service Fees: The fixed student service fee is used to cover the cost of student services that directly involve or benefit students, including but not limited to, recreational activities, lecture series, and student government.

Library Use Fee: The library use fee is collected to defray the costs associated with the availability and use of Learning Resource Center computer laboratories and instruction-related activities in the Learning Resource Center.

Medical Services Fee: The fixed medical services fee is used solely to provide medical services to students registered at the health science center.

ID Card Fee: A \$5 fixed ID card fee is collected from each student during the first semester of enrollment to cover the costs associated with issuing student identification cards. A replacement fee is charged for misplaced or damaged cards.

Course Fees: Course fees (including applicable lab fees) are charged to cover consumable supplies, syllabi, tests, salaries and wages of employees who assist in the instructional process such as graders or lab assistants, and some equipment purchases related directly to student participation in the classroom or lab. Course fees can, in some instances, save students money by bulk purchasing of goods and services. Some course fees can be substantially higher than others, especially when fees are passed on to third parties. These fees are subject to change as costs increase. Course fees will be due at the time of registration or the payment deadline for early registered students.

Audit Fee: \$152 (Senior citizens and full-time employees of UNT, UNT Health Science Center, their spouses and dependents audit free. Students auditing in a semester during which they are enrolled audit free.)

Late Registration Fee: A flat fee of \$25 will be charged to students registering at any time during the designated late registration period.

White Coat Fee: A \$30 fixed fee is collected from each new student during the first semester of enrollment to cover the costs associated with the white coat ceremony.

Publication Fee: A fixed fee is collected from each student during the semester of enrollment to cover the cost associated with instructional publications.

Transcript Evaluation Fee: A \$50 fee is charged to any student who submits transcripts from a non-US institution for which evaluation is required for admission.

International Student Service Fee: \$20 per semester collected from each international student to cover costs associated with services provided.

Employee Waiver: If eligible for the President's Educational Scholarship, all fees are waived except course fees, ID Card Fee and Late Registration Fee.

Concurrently Enrolled UNT Students: Student Activities Fee and Medical Fee are waived.

Graduation Fees

Master's Degree (Capstone/Professional Report & Comprehensive Exam)

Filing Fee \$20
Graduation Fee..... \$100

Master's Degree (Thesis)

Filing Fee \$20
Graduation Fee..... \$100
Binding Fee..... \$60
Microfilming Fee \$45
Copyright Fee (optional)..... \$45

Doctorate Degree

Filing Fee \$20
Graduation Fee..... \$100
Binding Fee..... \$60
Microfilming Fee \$55
Copyright Fee (optional)..... \$45

Binding of additional copies of theses and dissertations is available at a charge of \$20 per copy. Degree candidates who are planning to attend the commencement exercise must acquire the appropriate regalia from the Office of the Registrar.

Parking Fees

Student permits \$80/year

Replacement permits will be issued at a charge of \$5 if the original is lost, stolen or destroyed.

Founders Center Fee

\$75 yr. (\$25 per semester)

Student Center Fee

\$30 yr. (\$10 per semester)

Other Fees

Removal of Incomplete Grade \$5

Non-Citizen English Evaluation Fee \$50

Delinquent Payment Fee \$15

ID Card Fee \$5 (one-time)

Replacement ID Card Fee \$15

Matriculation Fee \$25 (one-time)

2004-2005 Course Fees

All courses offered include a \$15 course fee unless otherwise noted below.

ENVR 5420 \$50

SCBS 5420 \$50

2004-2005 Tuition and Mandatory Fees**Texas Residents**

Hours	Tuition	Board Designated Tuition	Student Service	Founders Center	Library Use Fee	Medical Fee	Student Center Fee	Total
1	\$77	\$28	\$100	\$25	\$50	\$67	\$10	\$357
2	\$154	\$56	\$100	\$25	\$50	\$67	\$10	\$462
3	\$231	\$84	\$100	\$25	\$50	\$67	\$10	\$567
4	\$308	\$112	\$100	\$25	\$50	\$67	\$10	\$672
5	\$385	\$140	\$100	\$25	\$50	\$67	\$10	\$777
6	\$462	\$168	\$100	\$25	\$50	\$67	\$10	\$882
7	\$539	\$196	\$100	\$25	\$50	\$67	\$10	\$987
8	\$616	\$224	\$100	\$25	\$50	\$67	\$10	\$1092
9	\$693	\$252	\$100	\$25	\$50	\$67	\$10	\$1,197
10	\$770	\$280	\$100	\$25	\$50	\$67	\$10	\$1,302
11	\$847	\$308	\$100	\$25	\$50	\$67	\$10	\$1,407
12	\$924	\$336	\$100	\$25	\$50	\$67	\$10	\$1,512
13	\$1,001	\$364	\$100	\$25	\$50	\$67	\$10	\$1,617
14	\$1,078	\$392	\$100	\$25	\$50	\$67	\$10	\$1,722
15	\$1,155	\$420	\$100	\$25	\$50	\$67	\$10	\$1,827

16	\$1,232	\$448	\$100	\$25	\$50	\$67	\$10	\$1,932
17	\$1,309	\$476	\$100	\$25	\$50	\$67	\$10	\$2,037
18	\$1,386	\$504	\$100	\$25	\$50	\$67	\$10	\$2,142

Out-of-State U.S. Citizens and Foreign Citizens

Hours	Tuition	Board Designated Tuition	Student Service	Activity Center	Library Use Fee	Medical Fee	Student Center Fee	Total
1	\$293	\$57	\$100	\$25	\$50	\$67	\$10	\$602
2	\$586	\$114	\$100	\$25	\$50	\$67	\$10	\$952
3	\$879	\$171	\$100	\$25	\$50	\$67	\$10	\$1,302
4	\$1,172	\$228	\$100	\$25	\$50	\$67	\$10	\$1,652
5	\$1,465	\$285	\$100	\$25	\$50	\$67	\$10	\$2,002
6	\$1,758	\$342	\$100	\$25	\$50	\$67	\$10	\$2,352
7	\$2,051	\$399	\$100	\$25	\$50	\$67	\$10	\$2,702
8	\$2,344	\$456	\$100	\$25	\$50	\$67	\$10	\$3,052
9	\$2,637	\$513	\$100	\$25	\$50	\$67	\$10	\$3,402
10	\$2,930	\$570	\$100	\$25	\$50	\$67	\$10	\$3,752
11	\$3,223	\$627	\$100	\$25	\$50	\$67	\$10	\$4,102
12	\$3,516	\$684	\$100	\$25	\$50	\$67	\$10	\$4,452
13	\$3,809	\$741	\$100	\$25	\$50	\$67	\$10	\$4,802
14	\$4,102	\$798	\$100	\$25	\$50	\$67	\$10	\$5,152
15	\$4,395	\$855	\$100	\$25	\$50	\$67	\$10	\$5,502
16	\$4,688	\$912	\$100	\$25	\$50	\$67	\$10	\$5,852
17	\$4,981	\$969	\$100	\$25	\$50	\$67	\$10	\$6,202
18	\$5,274	\$1026	\$100	\$25	\$50	\$67	\$10	\$6,552

All fees are subject to change.

Residency Regulations for Tuition Purposes

Rules and regulations for determining residency status are specified under Title III of the Texas Education Code and are available in the Registrar's Office. In general, students must physically reside in Texas for the 12-month period immediately preceding their initial registration in an educational institution in Texas. Other factors may be considered for residency determination for tuition.

Students who are not legal residents of Texas must pay non-resident tuition including the statutory tuition charges and standard health science center fees approved by the Board of Regents.

Admission requirements for non-residents are the same as for resident students.

Certain residency exceptions do not affect actual residency status but do allow for a non-resident tuition exemption. Refer to "Tuition and Fee Waivers" section of this chapter for further information.

Responsibility of the Student

The student is responsible for knowing residence status and for registering under the proper status. Any questions concerning residency must be discussed with the School of Public Health Office of Student Services and Academic Affairs before registration.

Any student erroneously classified as a resident will be reclassified and will be required to pay all out-of-state tuition due. Attempts to evade non-resident fees may subject the student to the statute penalty and to possible disciplinary action.

Change of Status: Non-Resident to Resident

A student who is at any time classified as a non-resident retains non-resident status until reclassification as a resident is applied for and is officially approved by the Registrar.

Change of Status: Resident to Non-Resident

Students who are classified as residents but become non-residents by virtue of any change of domicile must notify the Registrar of such change immediately. Students who believe they have been erroneously classified have the opportunity for appeal. The appeal is to be made to the authority by whom the original classification was assigned, either in the School of Public Health Office of Student Services and Academic Affairs or in the Registrar's Office.

Tuition and Fee Waivers

Several exemptions and waivers are available to qualifying students. Brief descriptions of these are listed below. Waiver refunds must be requested during the semester application is made. Such requests must be made before the 12th class day in long semesters and the fourth class day in summer terms. Requests for retroactive refunds cannot be honored. Additional information and applications are available in the School of Public Health Office of Student Services and Academic Affairs.

Exemptions and Waivers

1. Certain veterans, dependents, etc., of the U.S. armed forces who are Texas residents are exempted from payment of tuition.
2. Certain orphans of members of the U.S. armed forces, Texas National Guard and Texas Air National Guard are exempted from payment of tuition.

3. Deaf or blind students are exempted from payment of tuition.
4. Children of disabled firemen, peace officers, employees of the Texas Department of Corrections and game wardens are exempted from payment of tuition.
5. Children of U.S. prisoners of war or persons missing in action are exempted from payment of tuition.
6. Resident rather than non-resident tuition is applied to certain students from other nations of the American hemisphere.
7. Resident rather than non-resident tuition is applied to teachers and professors of Texas state institutions of higher education, their spouses and their children.
8. Resident rather than non-resident tuition is applied to a teaching or research assistant provided the student is employed at least one-half time by the health science center in a position that relates to the degree sought.
9. Resident rather than non-resident tuition is applied to a non-resident holding a health science center competitive academic scholarship of at least \$1000 for the academic year for which the student is enrolled.
10. Students who are concurrently enrolled in more than one program at UNT Health Science Center are not charged duplicate fees.
11. Certain health science center fees are waived for students enrolled only in off-campus courses.

Tuition and Fee Refunds

A student who drops a course or withdraws from the school within certain time periods may be entitled to a partial refund of tuition and fees. These refunds are calculated according to the category and time schedule listed below. Application fees, late registration charges, fee for student identification card, delinquent payment fees, and installment handling fees are non-refundable.

Any financial obligation to the health science center must be resolved before any refunds will be made.

Class Drop Policy

Refunds are made for any course dropped through the 12th class day for the long semester and through the fourth class day in the summer (see Academic Calendar for dates). The semester's first class day is always the first official day of classes for the School of Public Health rather than the first day of an individual's class.

To calculate the refund for a class dropped, take the fee paid for the original hours and subtract the fee shown in the Tuition and Fee Table for the new number of hours. The difference between the two is the amount of the refund. Note: If all classes for the semester are dropped, see "Schedule of Withdrawal Refunds" in this catalog.

Class Drop Refunds

The UNT Health Science Center shall refund a percentage of tuition and mandatory fees to students dropping a course or multiple courses but, maintaining enrollment in at least one course during the fall or spring according to the following withdrawal schedule:

- Before the twelfth day of class..... 100%
- During the third five class days..... 50%
- During the fourth five class days 25%
- After the fourth five class days None

Withdrawal Policy and Procedure

If a student leaves the health science center through (1) withdrawal, (2) dismissal, or (3) leave of absence, the following procedure should be followed:

Inform the Director of Admissions and Student Services of the school who will issue the student a Withdrawal/Leave of Absence form and an Official Student Clearance Form. (The Director of Admissions and Student Services will notify the Office of the Registrar that the student is in the process of withdrawing from the institution).

It is the student's responsibility to obtain clearance in the appropriate areas listed on the clearing form such as the Library, Campus Police, Student Financial Aid, Business Office, etc.

If a student is receiving financial aid or has student financial aid debt (emergency loan), he/she must schedule an Exit Interview with the Student Financial Aid Office to process the proper paperwork for repayment.

See Financial Aid Process for specific information concerning effects or withdrawal on financial aid received.

Students who leave the health science center without notifying the academic dean, and without completing the established withdrawal/leave of absence procedures within 30 days will be terminated.

It is not always possible to complete the clearance process in one day. Until a student is cleared in all areas, a "Hold" will be in force on his/her official transcript. Withdrawal refunds are determined by the number of enrolled semester credit hours at the time of withdrawal. Withdrawal percentages are applied to the total amount of tuition and fees as prescribed by state law, not the amount paid. The withdrawal schedule and percentages of refund shown below pertain to total withdrawal for the semester. The withdrawal schedule and the percentages of refund are mandated by the Texas Legislature. The semester's first class day is always the first official day of classes rather than the first day the individual attends class. A withdrawal refund is based on the day of withdrawal, regardless of the date the class first meets. See the Academic Calendar in this catalog for the dates classes begin.

Withdrawal Refunds

The UNT Health Science Center shall refund a percentage of tuition and mandatory fees to students withdrawing from the institution during a fall or spring semester according to the following withdrawal schedule:

Before first day of class.....	100%
During the first five class days.....	80%
During the second five class days	70%
During the third five class days.....	50%
During the fourth five class days	25%
After the fourth five class days	None

Correction of Errors

Students are responsible for any additional amounts due the health science center resulting from auditing and correction of records after registration fees have been paid, including all registration assessment errors, change from off-campus to on-campus classes, invalid employment waivers, etc.

Payments by Third Party

Checks issued by a third party in payment of a student's tuition, fees or other charges should be made payable to either the student or to both the student and the health science center. Arrangements may be made with the School of Public Health Office of Student Services and Academic Affairs in cases where cash amounts should not be made available to the student.

Returned Checks

A returned check is defined as any check returned to the health science center unpaid due to no fault of the bank or the university. Upon receipt of a returned check, notification is mailed to the issuing party or the individual in whose behalf the check was issued. The address on the check and/or the address in the official health science center records is used. An additional \$5 fee is charged for each returned check.

Financial Aid

The University of North Texas Health Science Center offers scholarship and loan programs to assist students in meeting the costs of financing a graduate education. Although financial aid is available for eligible students, it should be considered a supplement to a student's own financial resources

The focus of the Financial Aid Office is customer service and the prompt delivery of student funds. Counselors take students step-by-step through the application process to ensure that students receive the best funds available and that details of all programs are understood. While financial aid is heavily regulated, the staff strives to help students navigate this complex path in a professional and courteous manner.

Student Eligibility

To be considered for financial assistance, a student must meet the following eligibility criteria:

- Certify that he or she does not owe a refund on any grant or loan, is not in default on any loan or has made satisfactory arrangements to repay any defaulted loan, and has not borrowed in excess of the loan limits on any federal programs
- Register with the Selective Service if required
- Maintain satisfactory academic progress
- Use all funds received as financial aid for educational purposes only
- Student must be accepted into an eligible degree program

Student Financial Aid Counseling

Individual student counseling is available and encouraged. Counselors are available to discuss budgeting and types of financial aid awards. Students receiving federal loans are required to receive in-person counseling before the release of the first disbursement of their first loan.

Student Budgets

Student budgets are developed within federal guidelines and must meet the approval of the Texas Higher Education Coordinating Board. These budgets are re-evaluated periodically and may or may not change depending on requirements by federal law. The cost of attendance is summarized as follows and is for the student only. These expenses are for a 12-month period:

	Texas Resident	Non Resident
Tuition / fees	\$3,276	\$9,156
Books / supplies	579	579
Room / board	11,232	11,232
Transportation	2,666	2,666
Personal	2,952	2,952
Health Insurance	2,174	2,174
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Total	\$22,879	\$28,759

Regardless of the source, the total of all financial aid received cannot exceed the cost of attendance.

Allowances for those students with dependents requiring dependent care and allowances for handicapped students may be permitted for students meeting specific requirements. In addition, students with unusual or extenuating school-related circumstances that may require special consideration should contact the Financial Aid Office promptly. In some instances, students may be required to supply additional information for a complete evaluation of a request.

Applying For Financial Aid

1. New applicants should complete a Free Application for Federal Student Aid (FAFSA) electronically via the Internet at www.fafsa.ed.gov. You will need a computer with access to a printer and your previous year's tax information. A paper FAFSA can be submitted instead, but will take longer to process. For renewing applicants, find your electronic access code (EAC) at www.eac.ed.gov. Then proceed to www.fafsa.ed.gov to complete a renewal FAFSA.
2. The Financial Aid Office does not have deadlines in which to apply. However, we highly recommend that you submit your application by April 1st if you are a continuing student and by May 1st if you are a new student to UNTHSC. The Financial Aid Office cannot guarantee to have your financial aid funds ready for you by the start of the school year if these dates are not met. Therefore, students who file applications after the recommended dates should be prepared to pay for their own expenses and wait until their aid dollars arrive to be reimbursed.
3. If you are selected for verification, additional documentation and financial aid forms will be required. If the selected data is incorrect, the processing time can increase.
4. Take adequate time to complete the Free Application for Federal Student Aid. Read and answer all questions carefully and accurately. The additional time you spend in completing the application will enhance and ensure a successful application process.
5. Schedule an appointment with a financial aid counselor to discuss eligibility requirements, verification problems, budgeting of resources, or loan applications. Call (817) 735-2520 or (800) 346-8266.
6. The Financial Aid Office is located in the Student Affairs Division, EAD-247 on the second floor of the Education and Administration Building.

Federal Loan Programs

Students who complete the FAFSA and meet all general eligibility requirements as outlined for each program may apply for federal financial aid. In addition, most aid programs require that the recipient adhere to academic and/or financial criteria in order to maintain eligibility. Some programs have limited funds; therefore, student files that are completed first are considered first. Major federal programs available can include:

- Federal Work Study
- Federal Perkins Loans
- Federal Family Education Loan Programs

Students may also apply directly to private foundations for scholarships and loans. Programs have individual selection criteria and various award limits. Contact the Financial Aid Office for more information.

Credit Eligibility

Due to the demanding course schedule, holding a part-time job may not be possible. This creates a greater dependence on financial aid to cover living expenses. Some students discover a need to borrow additional funds beyond what the Stafford programs will allow. The source of these additional funds is usually a private alternative educational loan.

Unlike Stafford loans, the government does not guarantee alternative loans. Therefore, lenders usually review a student's credit history before granting an alternative loan. Educational loan defaults, bankruptcies, charge-offs, foreclosures, judgments, liens, or an excess of slow payments could damage the chances of receiving the alternative loans necessary to cover all educational and living expenses that a student is responsible for while attending graduate school.

A good credit history is important to ensure that any student is able to take full advantage of all funding options available through financial aid.

Insurance for Alternative Loans

Unlike Stafford loans, most alternative loans do not include a death/disability clause. This means that most alternative loans are not forgiven in the event of death or total disability. We recommend that any student planning to borrow money from an alternative loan program consider securing adequate insurance coverage for the loan.

Immigration Documents & Budget

When you apply for a new visa document, you may need to demonstrate that you have sufficient financial support. This will usually be the case if:

- You are asking for an I-20 upon admission;
- You are asking for an extension of your stay;
- There is a change in your funding;
- You are asking for documents for the first time for your immediate family members; and/or
- The documents in your file are more than 12 months old.

The amount of financial support required will vary depending upon the number of dependents you will be supporting. Proper documentation is necessary in the amounts listed below:

Individual Student	\$28,759
Spouse	+ \$5,070
Child	+ \$3,120 / child

6 Student Life

Division of Student Affairs

Student Affairs is involved in issues that are relevant to all DO, GSBS, SPH, and PA students from pre-enrollment through graduation. The division provides co-curricular and extra-curricular services, programs, and activities to facilitate students' academic training, personal growth, and professional development. Student Affairs assists the administration of UNT Health Science Center in interpreting students' individual needs. In turn, this creates an atmosphere that not only stimulates the learning process, but also integrates extra-curricular and co-curricular experiences into the formal educational programs.

Student Affairs is comprised of the following departments: the Office of Student Affairs, Office of Academic Support (OASIS), the Registrar's Office, the Financial Aid Office, and the Student Development Office. The division supports the mission of the UNT Health Science Center by implementing the following goals:

- Manage student enrollment through recruitment, retention, and career development strategies that result in graduates who possess the ability to succeed in their chosen profession;
- Promote the professional and personal development of all students;
- Support consistent development, creation, and implementation of institutional policies and guidelines in order to ensure student success; and
- Promote positive communication that demonstrates a professional, caring, and supportive atmosphere for prospective students, enrolled students, and alumni.

Student Affairs Departments

Office of Student Affairs

- Encourages students to participate in a variety of UNT Health Science Center enrichment programs;
- Provides academic and career counseling services to all students (Please note that *personal counseling* referrals for students are available through the Student EAP at 817-339-8936.);
- Interprets institutional regulations and policies pertaining to both academic and non-academic student matters;
- Oversees student discipline and intervention programs; and
- Assists students in completing the required paperwork and notifying appropriate faculty regarding emergent issues, such as excused absences.

For more information please feel free to contact our office at: **817-735-2505 (EAD-246)**.

Office of Academic Support Services (OASIS)

- Provides services to enhance the academic success of all students;
- Works with faculty to provide direction and support for students in periods of academic difficulty;
- Offers counseling on learning strategies, time management, and test-taking skills; and
- Develops comprehensive peer-tutoring and supplemental instruction programs.

For more information about these services, please contact OASIS at 817-735-2409 or 817-735-2407, or visit the website at: www.hsc.unt.edu/departments/Oasis.

Financial Aid Office

- Provides students with financial assistance;
- Helps students manage living expenses and the cost of their educational program; and
- Provides financial planning opportunities, referrals, and resources to students.

For more information about these services, please contact the Financial Aid Office at 817-735-2520 or 817-725-2627, or visit the website at: www.hsc.unt.edu/departments/financialaid.

Registrar's Office

- Oversees student enrollment and registration;
- Issues official transcripts and other educational records;
- Certifies enrollment and eligibility for veterans' benefits;
- Maintains students records including address and name changes; and
- Coordinates major campus events such as convocation and commencement.

For more information about these services, please contact the Registrar's Office at 817-735-2201 or 817-725-2202, or visit the website at: www.hsc.unt.edu/departments/registrar.

Student Development Office

- Coordinates programs and activities that promote the intellectual, professional, moral, social, physical, and emotional development of all students;
- Coordinates the student activity calendar, assists in student-sponsored events, helps with the registration process, and assists in fiscal management of clubs and classes;
- Assists organizations with leadership development and the planning of activities and events; and
- Provides students and prospective students with information on housing, childcare and employment opportunities in Fort Worth.

For more information about these services, please contact the Student Development Office at 817-735-5006, or visit the website at www.hsc.unt.edu/departments/sdo/.

Student Activities

Student Organizations

- There are many organizations on the UNT Health Science Center campus that represent a variety of interests within the health professions community. In cooperation with the Student Development Office, the health science center sponsors programs and activities that promote the intellectual, professional, social, physical, and emotional development of all students. These organizations provide students with leadership opportunities at the local, regional, and national levels. There are over thirty active student organizations and 4 student government bodies on campus.

For more information about student organizations and student government, please contact the Student Development Office at 817-735-5006.

How to Schedule Events

Student organizations are required to schedule events, seminars, programs and lectures through the Student Development Office. Please contact the Student Development Office at 817-735-5006 for more information or to schedule a room.

Campus Resources

Housing

The UNT Health Science Center does not provide on-campus housing to its students. However, students will find a variety of housing opportunities in the area. Each student is responsible for making his or her own housing arrangements. Please visit: <http://students.hsc.unt.edu> and click on “Housing Opportunities” for available options.

The health science center does not assume any responsibility for student housing arrangements. The health science center supports the federal housing policy that homeowners do not discriminate because of race, color, gender, age, disability, veteran status, or national origin.

Recreational Facilities - Founder's Activity Center

The Founders' Activity Center is located on the north side of the campus, and is open 7 days a week to students, faculty and staff. The center features aerobic classes, regularly scheduled recreational sports, a multi-purpose outdoor court, and recreational equipment. Cardiovascular

exercise equipment, free weights and weight machines are also available. The center's health promotion manager can tailor exercise and nutrition programs to the individual. For more information and a current schedule of activities, please visit the website at: www.hsc.unt.edu/fac or contact the health promotion manager at 817-735-2209.

Food Service

Snack food is available from various on-campus vending machines and in the health science center gift shop, located on the second floor of the library lobby. Lunch is served daily in the Stairwell Cafe, located on the first floor of the library.

Campus Police

The UNT Health Science Center Campus Police Department operates 24 hours a day, 7 days a week. Campus Police officers are fully licensed peace officers vested with all the powers, privileges, and immunities of peace officers in the State of Texas. They are authorized to function as the local law enforcement authority in all counties in which property is owned, leased, rented or otherwise under the control of the health science center.

In compliance with the Jeanne Clery Campus Security Policy and Crime Statistics Reporting Act and the 1998 amendments to the Higher Education Act, a Campus Police Crime Log, containing all reportable crimes is maintained and made available to the general public. Such crimes are logged and open to public inspection within two business days of the report. Exceptions to disclosure of statistics will be made to protect ongoing investigations and victims of sensitive crimes. The non-emergency phone number for the campus police is 817-735-2210. **For emergencies, please call 817-735-2600 or ext. 2600 from any campus phone!**

Liability

The health science center is not responsible for, and does not assume any liability for loss of or damage to personal property. Students may wish to provide personal insurance coverage for their possessions on campus.

Health Services

Health care services are available to students through the UNT Health Science Center's Central Family Practice Clinic in the Patient Care Center. The student is responsible for all appropriate fees and must provide proof of insurance. Student Health Services or the student's primary care physician (as specified by the student's insurance plan) must approve referrals to specialty clinics. For more information, please contact the Central Family Practice Clinic at 817-735-2228.

7 Course Descriptions

The following courses are offered through the University of North Texas Health Science Center School of Public Health.

BIOS 5210. Biostatistics for Public Health I.

3 SCH. This course provides students with the basic knowledge and skills to effectively use biostatistics in research design and data analysis and to understand articles in related professional journals. Topics include choosing correct statistical methods and experimental designs in public health research and practice; descriptive statistics; probability and probability distributions; estimation and hypothesis testing; simple linear regression; introduction to analysis of variance and an introduction to the use of statistical software packages.

BIOS 5215. Biostatistics for Public Health II.

3 SCH. The student is introduced to more advanced statistical methods including multiple regression, logistic regression, factorial ANOVA, repeated measure designs, analysis of categorical data, and nonparametric statistics. Prerequisite: BIOS 5210 or equivalent.

BIOS 5700. Mathematical Statistics.

3 SCH. This course presents fundamental concepts in applied probability and the distributions of random variables important to the understanding of statistical inference. Topics include probability defined on finite and infinite samples spaces, conditional probability, independence, random variables, expectation, variance, moment-generating function, probability models, limit theorems, sampling distributions, Estimation, and Hypothesis Testing. This course serves as part requirement for Biostatistics students and is helpful to professional biostatisticians and researchers.

BIOS 5720. Survey Sampling.

3 SCH. Construction of sampling frames, area sampling, methods of estimation, stratified sampling, systematic sampling, and cluster sampling. Prerequisite: One course in biostatistics.

BIOS 5725. Nonparametric Statistical Methods.

3 SCH. This course covers a wide selection of nonparametric statistical tests as alternatives to parametric tests. The strength and weakness of each test, as well as test efficiency, will be discussed and statistical software will be used throughout the course. Prerequisite: BIOS 5210 and BIOS 5215.

BIOS 5730. Regression Analysis.

3 SCH. This course presents the methods in regression beyond the introductory level, to include multiple and partial correlation and regression, residual analysis, logistic regression, polynomial regression, poisson regression, and selection of predictor variables. Prerequisite: BIOS 5210 and BIOS 5215.

BIOS 5735. Analysis of Variance.

3 SCH. This course presents the ANOVA model beyond the introductory level, to include various experimental designs, in-depth treatment of multiple comparison methods, factorial repeated measure ANOVA, analysis of covariance, power analysis, and determination of sample size. Prerequisite: BIOS 5210 and BIOS 5215.

BIOS 5740. Introduction to Statistical Packages.

3 SCH. Develops skills in the use of statistical packages in public health research. Emphasis is on data definition, verification, descriptive examination, and graphical presentation. Statistical packages will include SAS, SPSS, and other well-known software. Prerequisite: BIOS 5210.

BIOS 5760. Data Management.

3 SCH. The goal of this course is to provide an overview of data collection and management. The topics include study design, data form design and coding, defining a database and a database system, data collection and entry, quality control, and database management. Also, privacy, confidentiality and security concerns as well as ethical and legal issues will be discussed. Examples of databases may be illustrated by use of Microsoft Access. Prerequisites: BIOS 5210, BIOS 5740 and basic knowledge of Microsoft Excel and Microsoft Access.

BIOS 5780. GIS and Spatial Statistics in Health Research.

3 SCH. This course provides an introduction to the application of geographic information systems (GIS) and spatial statistics in public health. More specifically the goals are: (1) to provide students with an understanding of how GIS can be applied in health science and research; (2) to familiarize students with advanced GIS and spatial modeling techniques; (3) to provide students with hands-on experience in working with various GIS data sources through a project related to their own research interest; and (4) to present research results with applied GIS techniques. Prerequisite: BIOS 5210.

BIOS 5910. Independent Study in Biostatistics.

1-3 SCH. For students capable of independently completing topical studies or projects through conferences and activities directed by the instructor. Topical or project work is chosen by the student with the consent of the instructor. May be repeated for credit.

Offered each semester.

BIOS 6710. Outcome Measurement in Health Care.

3 SCH. This course provides students with the basic knowledge and skills to effectively design and implement treatment outcome measurement strategies in health care settings. The course will also provide computer instruction to facilitate the effectiveness of treatment outcome measurement. Students will learn about the various settings in which outcome measurement occurs, such as family medicine clinics, pain centers, hospitals, pharmaceutical industries, and psychiatric facilities. Database management, quality control, and analysis of health care data will be demonstrated. Students will develop and analyze a simulated treatment outcome database of their own and present their findings in class. Prerequisites: BIOS 5215.

BIOS 6760. Multivariate Analysis.

3 SCH. This course covers advanced topics in the general MANOVA model, including inference about mean vectors and covariance matrices, canonical correlation, principal components, discriminate analysis, cluster analysis, and grouping techniques. Special emphasis will be on the use of major statistical package such as SAS. A background in matrix algebra is expected. Prerequisite: BIOS 5730 and BIOS 5735. BIOS 5740 is recommended.

BIOS 6775. Clinical Trials and Survival Analysis.

3 SCH. This course covers the general concepts and methodologies in clinical trials and statistical techniques in survival analysis. Topics covered include: phase I, II and III clinical trials, basic study design, ethical considerations, organization, study population, patient recruitment, protocol adherence and compliance, adverse event, data management, closeout, issues in reporting results as well as statistical techniques such as designs for phase I, II and III clinical trials, randomization, blindness techniques, sample size determination, and interim analysis. In addition, survival analysis will cover survival distributions, censored data, Kaplan-Meier curve and life-table analysis, logrank test, hazard function, and the Cox regression.

BIOS 6785. Biostatistical Research and Consulting.

4 SCH. This course provides students with the basic knowledge and skills to provide statistical consulting to persons and organizations in a wide variety of settings, including medical centers, hospitals, industry, and government. Students will be instructed in scientific writing, and will practice reading and writing about medical research. This course brings together the skills that students have learned in other core classes, such as BIOS 5210 and 5215: Biostatistics I and II, BIOS 5760: Data Management, and BIOS 5740: Introduction to Statistical Packages. Students will complete an original research project whereby they assess, analyze, write, and present findings from actual health care data. This course serves as part requirement for Clinical Research students who choose to opt out of writing a masters thesis.

BIOS 6790. Seminar in Biostatistics.

3 SCH. Topics in biostatistics will be chosen for in-depth study according to the interest of faculty and students. Possible topics include meta-analysis, path analysis, robust statistics, missing-value data analysis, disease mapping and risk assessment, analysis of health surveys, the use and analysis of governmental data, analysis of clinical trials, and statistical issues.

BIOS 6910. Doctoral Independent Study in Biostatistics.

1-3 SCH. This academic activity includes research and other scholarly projects carried out by the student under the supervision of a School of Public Health faculty member (instructor). A brief proposal should be written and approved by the academic advisor and a final report should be submitted to the supervising instructor for credit. Topical or project work is chosen by the student with the consent of the supervising instructor and approval from the academic advisor. It may be repeated for credit. Offered each semester.

ENVR 5300. Environmental Health.

3 SCH. An introduction to the environmental (physical, chemical, biological) determinants that influence human health and means of controlling these determinants. Emphasis will be given to urban water supply, wastewater disposal, ambient and indoor air quality, solid and hazardous wastes, food protection, vector control, radiation protection, occupational safety, toxicology, risk assessment and risk communication.

ENVR 5315. Environmental and Occupational Health Risk Analysis.

3 SCH. Principles of environmental health risk of toxic substances. Qualitative and quantitative skills necessary to evaluate the probability of injury, disease, or death from exposure to environmental contaminants are discussed. Hazard identification, exposure assessment, dose-response evaluation, and risk assessment are emphasized. Techniques to effectively prepare community action plans, interface with the media, prepare and conduct public meetings and speak on environmental risk are presented. Skill development is enhanced with case studies, role-playing, and public speaking. Prerequisites: BIOS 5210 and ENVR 5300.

ENVR 5325. Industrial Hygiene.

3 SCH. An introduction to the evaluation and control of the occupational environment with regard to minimizing toxic exposure in the workplace, including chemical agents, biological agents, dusts and fibers, noise, heat and radiation, methods of detection and control, development standards in the workplace, ventilation, engineering and other controls, personal protection, air monitoring, exposure-health effect, linkage and job-exposure matrices. Prerequisites: BIOS 5210, ENVR 5300, and EPID 5100.

ENVR 5330. Environmental and Occupational Toxicology.

3 SCH. This course will deal with some important topics in environmental toxicology. Some of the topics that will be covered include: dose-response curves and nature of threshold for carcinogens and non-carcinogens; determination of air concentrations within and outside the workplace; development of standards; mechanism(s) of carcinogenicity and promotion; latency periods; exposure assessment; risk assessment.

ENVR 5340. Food Quality and Safety.

3 SCH. This course will be an examination of the quality and safety aspects of our food supply from the "farm to the table." This course will provide the student with information necessary to ensure hygienic practices in food production. It will thoroughly discuss the relationship of microorganisms and sanitation, food contamination sources, personal hygiene and sanitary food handling, quality assurance, cleaning compounds, cleaning equipment, waste disposal, food processing and preparation, and pest control.

ENVR 5350. Occupational Health Practice.

3 SCH. The essential components and services of occupational health programs/practices are presented (duty fitness evaluations, medical surveillance evaluations, work site substance abuse programs, work site health promotion programs, employee assistance programs, work injury/illness prevention and case management programs, safety programs and training, and environmental health programs/activities). The design, management and legal basis/implications of occupational health practice are also discussed. The course content is designed specifically

for students enrolled in the occupational health concentration or for current health care providers/students wishing to expand their knowledge of occupational health practice.

ENVR 5420. Texas-Mexico Border Health Issues.

3 SCH. This experiential course focuses on issues surrounding public health on the Texas-Mexico border. Border health issues addressed include cultural diversity; water and waste water treatment; air and water pollution; and zoonotic, acute infectious and chronic disease control. Course includes on-site study in Laredo and/or other border communities. Enrollment limited. Prerequisites: ENVR 5300 and SCBS 5110, plus 6 hours of additional course work and approval of the instructor.

ENVR 5910. Independent Study in Environmental Health.

1-3 SCH. For students capable of independently completing topical studies or projects through conferences and activities directed by the instructor. Topical or project work is chosen by the student with the consent of the instructor. May be repeated for credit.

Offered each semester.

EPID 5100. Principles of Epidemiology.

3 SCH. An introduction to epidemiology for students majoring in any aspect of public health. Principles and methods of epidemiological investigations, both for infectious and non-infectious diseases, as well as for assurance of health, are included.

EPID 5610. Chronic Disease Epidemiology.

3 SCH. This course provides a survey of common chronic diseases in the United States and epidemiologic methods used in the prevention and control of such diseases. Course content includes study of the multifactorial etiology of many chronic diseases and the methodologic problems posed in studying chronic diseases. Prerequisite: EPID 5100 or permission of instructor.

EPID 5620. Theory & Practice of Epidemiology.

3 SCH. This is the second semester of a two-semester course sequence, which provides an intensive introduction to epidemiologic theory and methods. It is designed for students who plan to concentrate in epidemiology, and for students who require extensive preparation in epidemiologic methodology. Causal inference, precision and validity, the analysis of crude and stratified data, approaches to assessing for effect modification and adjusting for confounding, matching, estimating dose response associations and an introduction to basic principles of modeling data are covered. State-of-the-art quantitative approaches to the analysis of epidemiologic data are stressed in this course. Prerequisites: EPID 5100.

EPID 5630. Infectious Disease Epidemiology.

3 SCH. Infectious diseases are a leading cause of death, accounting for a quarter to a third of the estimated 50+ million deaths worldwide. This course provides an introduction to the epidemiology of infectious diseases. This course focuses on the epidemiologic patterns of infectious diseases as well as new emerging infectious diseases, and their prevention and control. Prerequisite: EPID 5100 or permission of instructor.

EPID 5660/6665. Epidemiology of Diseases of Public Health Importance.

3 SCH. This course presents an epidemiologic survey of diseases of major public health importance both in the United States and abroad and the epidemiological and basic statistical methods used in the prevention, control, and identification of major risk factors of such diseases. Detailed discussions of the epidemiology of selected diseases and conditions such as myocardial infarction, stroke, hypertension, selected cancer types and sites, automobile accidents, asthma, diabetes, HIV/AIDS, hepatitis A, B, and C, AIDS, tuberculosis, malaria and dengue are covered. Prerequisite: BIOS 5210 and EPID 5100 or permission of instructor.

EPID 5690. Epidemiology of Bioterrorism and Catastrophic Events.

3 SCH. The purpose of this course is to give epidemiology majors and other interested public health students an understanding of the basic epidemiologic principles and methods related to bioterrorist attacks and other catastrophic events (both natural and man-made). The use of biological, chemical, and radiological agents as weapons will be examined as well as the distribution and frequency of diseases associated with these events and other natural and man-made catastrophic events. A unified set of concepts, principles, theory and methodologies used in the study of bioterrorism and other catastrophic events will be undertaken. Examples will be taken from bioterrorist events (Aum Shinrikyo, Dalles, Oregon, etc), man-made catastrophies (Chernobyl, Bhopal, etc) and natural catastrophic events (Galveston Hurricane, CO2 at Lake Nyos, etc). It is designed to build on a foundation of coherent epidemiological concepts and foster the understanding of the use of epidemiologic principles and methods in responding to catastrophic events. This course is designed specifically for epidemiology concentration and other public health students requiring a more thorough knowledge of bioterrorism and catastrophic events. Prerequisites: EPID 5100 or permission of instructor.

EPID 5910. Independent Study in Epidemiology.

1-3 SCH. For students capable of independently completing topical studies or projects through conferences and activities directed by the instructor. Topical or project work is chosen by the student with the consent of the instructor. May be repeated for credit. Offered each semester.

EPID 6610. Cardiovascular Disease Epidemiology.

3 SCH. This course examines the epidemiology of cardiovascular disease, with emphasis on coronary heart disease. The major risk factors for coronary heart disease and approaches to risk factor intervention are discussed. Emphasis is given to public health strategies for reduction of risk factors among populations. Prerequisites: EPID 5620 or permission of instructor.

EPID 6615. Epidemiologic Surveillance.

3 SCH. This course includes the application of epidemiologic methods to two important professional areas of public health. The first one is devoted to the planning, management, and data analysis of public health surveillance systems. The steps for planning a surveillance system, criteria for identifying high priority health events for surveillance, types of surveillance systems, data collection, data processing, quality control, analysis and the interpretation of surveillance data are included. This part of the course also encompasses the basis for evaluation of surveillance systems and the methods used for screening of disease. A small-scale computerized surveillance system is developed as part of the course. The second part of the course, deals with

the basic epidemiologic methodology used to assist in the planning and evaluation of health programs of disease control and prevention. It includes the methodology for the design of instruments for data collection, assessment of health care needs, and the epidemiologic evaluation of the impact of health interventions. Prerequisite: EPID 5100 or EPID 5605 and BIOS 5210.

EPID 6620. Survey Methodology.

3 SCH. The purpose of this course is to prepare students to examine the unified concepts, principles and methodologies that govern survey research. The course stresses survey design, questionnaire design, and analysis of survey data. The course is designed for epidemiology and other public health students requiring a thorough knowledge of survey research. Prerequisites: EPID 5100 or permission of instructor.

EPID 6625. Tropical Diseases Epidemiology.

3 SCH. This course presents an epidemiologic survey of common tropical diseases both in the United States and abroad and the epidemiological and basic statistical methods used in the prevention, control and identification of major risk factors, vector transmission and etiology of such diseases. Detailed discussions of the epidemiology of selected diseases such as malaria, dengue, Chagas' disease, Hansen's disease, leishmaniasis, legionellosis, plague, cholera and other diarrheal disease, onchocerciasis and selected emerging viral hemorrhagic fevers are included. Prerequisite: EPID 5100 or permission of instructor.

EPID 6630. Quantitative Epidemiologic Methods.

3 SCH. State-of-the-art methods for analyzing epidemiologic data will be covered starting with the analysis of stratified data through multivariable modeling. Methodologies for case-control, cohort, and mixed designs will be considered. The statistical analysis package, Egret, will be used for class assignments and projects. However, students must have a working knowledge of at least one other statistical package that has database management capabilities. Students will be required to have completed two semesters of epidemiologic theory and methods, and at least two statistical methods courses, at least one of which included a thorough treatment of regression analysis. Previous completion of a course in survival analysis or concurrent enrollment is recommended. This course will feature application of state-of-the-art methods of analysis, such as log linear methods, logistic regression approaches, poisson regression, proportional hazards modeling, the analysis of spatial distributions, survival data and "computer-intensive" approaches to statistical estimation. Data sets will be provided to allow students to gain experience with each method considered. The goal of this course is to allow the student to develop a clear understanding of statistical computing and analytic approaches to problems in epidemiologic data analysis. Prerequisites: BIOS 5215 and EPID 5620 or permission of instructor.

EPID 6640. Environmental Epidemiology.

3 SCH. Epidemiology is crucial to the analysis of relationships between the environment and health. The purpose of this course is to prepare students to examine the unified set of concepts, principles and methodologies that govern environmental epidemiology. It is designed to build on a foundation of coherent epidemiological concepts and foster the understanding of the principles and methods of environmental and epidemiologic study design, analysis and interpretation.

This course is designed specifically for the epidemiology concentration and other public health students requiring a more thorough knowledge of the concepts and methods used in environmental epidemiologic research. Building upon material covered in previous epidemiology courses, this course stresses etiologic study designs, methodological issues and analytic methods as they relate to environmental studies. Prerequisites: EPID 5620 or permission of instructor.

EPID 6670. Cancer Epidemiology.

3 SCH. This course is an introduction to the biologic, cellular, and genetic basis of neoplastic growth, mechanisms of carcinogenesis, a review of methods used in epidemiologic studies of cancer, the epidemiologic studies of cancer, the epidemiologic characteristics of major types of cancer and current knowledge regarding causation and prevention. It is designed for students who are interested in chronic diseases, especially those who plan further study and/or research in the area of cancer epidemiology. Prerequisites: EPID 5620 or permission of instructor.

EPID 6690. Occupational Epidemiology.

3 SCH. The purpose of this course is to prepare students to examine the unified set of concepts, principles and methodologies that govern occupational epidemiology. It is designed to build on a foundation of coherent epidemiological concepts and foster the understanding of the principles and methods of occupational epidemiologic study design, analysis, and interpretation.

This course is designed specifically for the epidemiology concentration and other public health students requiring a more thorough knowledge of the concepts and methods used in occupational epidemiologic research. Building upon material covered in previous epidemiology courses, this course stresses etiologic study designs, methodological issues and analytic methods as they relate to occupational studies. Prerequisites: EPID 5620 or permission of instructor.

EPID 6910. Doctoral Independent Study in Epidemiology.

1-3 SCH. This academic activity includes research and other scholarly projects carried out by the student under the supervision of a School of Public Health faculty member (instructor). A brief proposal should be written and approved by the academic advisor and a final report should be submitted to the supervising instructor for credit. Topical or project work is chosen by the student with the consent of the supervising instructor and approval from the academic advisor. It may be repeated for credit. Offered each semester.

HMAP 5130. Principles of Public Health.

3 SCH. This course provides a broad overview of the organization and practice of public health at the national, state and local levels. The central functions and essential services of public health are discussed, along with public advocacy, ethics, cultural competence, and policy development. Special emphasis is given to program development in public health.

HMAP 5200. Health Administration.

3 SCH. This course provides an introduction to administrative and managerial practices as they relate to public health and healthcare organizations. The course covers basic concepts and theories of management, leadership, organizational environments, the legal basis for public health, planning, programming, evaluation, budgeting and personnel management.

HMAP 5240. Health Politics and Policy.

3 SCH. This course emphasizes key concepts and knowledge regarding how health policy is formulated, enacted, and implemented. Policy analysis skills are developed and applied by the students. Current health policy issues are explored to exercise these conceptual and analytic skills.

HMAP 5245. Health Economics.

3 SCH. An overview of micro economic theory, demand and supply of health services, hospital and physician service markets, role of public sector, comparative health systems and cost effectiveness analysis. Background in economics and statistics is helpful but not required.

HMAP 5250. Public Health Leadership.

3 SCH. The goals of this course are to develop the student's ability to create and implement, with organizations and communities, a shared vision for public health; develop the skills to mobilize resources and the organizational and community capacity necessary to address public health challenges and achieve the national health objectives; and to enable participation in a network that fosters life-long learning and shapes the future of public health.

HMAP 5255. Finance for Health Management.

3 SCH. This course offers an introduction to financial theory and practice in health care settings. It is designed to familiarize students with important concepts and issues confronting managers in the health sector. Background in accounting and economics is helpful.

HMAP 5260. Health Information Systems.

3 SCH. The curriculum will consist of three modules: technology, planning and management, and applications in health care and public health. The emphasis will be on conceptual frameworks as well as a deeper level of engagement on system applications. It is not a course in computer programming, rather the main focus will be on the management of technology, with a particular emphasis on the private/public sector for health management. It is designed to familiarize students with core concepts and issues confronting managers in the health sector associated with planning, implementation and evaluation of information systems. Students will also learn how to access and use downloadable and extractable databases for research from the Web, such as those from the CDC, AHRQ, TDH and NCHS.

HMAP 5430. Health and Public Health Law.

3 SCH. Introduction to the statutes and case law governing the practice public health professionals. Emphasis on the constitutional basis for public health issues and the role of administrative law in public health.

HMAP 5450. Public Health Program Planning and Evaluation.

3 SCH. This course is an introduction to the concepts, methods, and applications of public health program planning and evaluation. The course will explore the role of planning and evaluation in improving program implementation and management and public policy. Design and application of evaluations will include both quantitative and qualitative research methods.

HMAP 5800. Capstone

3 SCH. The capstone course is designed to allow students the opportunity to apply methods and techniques learned in the M.P.H. program to a practical public health problem. All students will participate as members of a team to conduct a project focused on a public health problem and will then communicate their results in a written report. The course is designed to partially meet the culminating experience requirement for students in the Department of Health Management and Policy. It is recommended that students take the course after completing at least 30 hours of core and departmental coursework. Consistent attendance is strongly advised (student must also complete SPH 5900). This course will be offered in the Spring semester and may be used by both health management and policy students and social and behavioral science students as the culminating experience.

HMAP 5910. Independent Study in Health Management & Policy.

1-3 SCH. For students capable of independently completing topical studies or projects through conferences and activities directed by the instructor. Topical or project work is chosen by the student with the consent of the instructor. May be repeated for credit. Offered each semester.

HMAP 6140. Ethical Issues in Public Health.

2 SCH. The course provides an examination of fundamental and current ethical issues in public health. Through lectures, readings, case studies, and historical examples, students will explore principles of ethics and theories of justice applicable to the public health profession. Students will develop skills of ethical analysis and apply them to major issues in public health practice, research, management, and policy. Examples of such issues include individuals and government, community and social context, human subject research, and healthcare allocation.

HMAP 6200. Organizational Management.

3 SCH. This course will prepare students to function in managerial and leadership positions in either the public or private sectors. The course will use the “Balanced Scorecard” as the basis for learning the concepts and methods of strategic management, which seeks organizational alignment of organizational goals and objectives, financial measures, internal processes, customer relationships, and learning and growth.

HMAP 6210. Health Services Research I.

3 SCH. The course will provide an overview of current health services research of interest to public health and health management and policy. Methodologies related to health services research will be presented and critiqued. Students will gain experience in presenting and providing critiques of current research. The course will culminate in an original health services research project by each student. Prerequisites: BIOS 5210 and BIOS 5215.

HMAP 6211. Health Services Research II.

3 SCH. This course builds upon the concepts and skills presented in the Health Services Research I course. Students will continue to develop skills in use of the Stata analytic software which is becoming standard in health services research. Students will learn and apply more complex analytic methods than those covered in Health Services Research I. Considerable emphasis is placed on applying these methods to existing data bases (national and state) in a

computer lab setting. The course is intended to assist doctoral students in developing and implementing methods such as ordered logit and probit analyses, analysis of complex sample design data, fixed-effects and other methods. Prerequisite: HMAP 6210 Health Services Research I.

HMAP 6215. Health Insurance and Managed Care.

3 SCH. A survey of the history of health insurance in the United States. Theoretical issues in health insurance, cost containment in public and private sectors, global finance of health services, long term care and the problem of the uninsured.

HMAP 6220. Advanced Health Economics.

3 SCH. The course considers a variety of special topics with a focus on managed care issues. Issues include: actuarial problems in managed care, rate setting for hospital and physician services, mergers and acquisitions, antitrust in the health sector, the role of equity markets in health services, cost benefit and cost effectiveness analysis.

HMAP 6225. Quality Management in Long-Term Care.

3 SCH. The theoretical basis and diverse perspectives of quality management and regulation approaches for long-term care services will be presented. Will include relevant research and management methodologies that are currently being used in the long-term care system.

HMAP 6230. Public Health Long-Term Care Policy.

3 SCH. The organization, financing, delivery and utilization of long-term care, comprehensively designed, are examined with emphasis on affordability, access and quality in a managed care environment for older adults. Note: the Health Resources and Services Administration (HRSA) and Managed Care Technical Assistance Program will support the course.

HMAP 6240. Advanced Health Informatics.

3 SCH. This course is designed to integrate the areas of information technology, systems analysis and design, project management and clinical expert system to aid the student in developing major information systems. This course will cover four core components of information systems. Students will design, develop, and integrate three of the four types of information systems: specifically, each three-student group will build an online order entry system (to produce periodic summary reports) and a Executive Information System (along with the associated data warehouse and data analysis capabilities).

More specifically, the goals are: (1) to provide students with an understanding of how informatics can be applied in health science and research; (2) to familiarize students with advanced informatics and expert systems techniques; (3) to provide students with hands-on experience in working with clinical data sources through a project related to their own research interest; and (4) to present research results with applied informatics techniques. Prerequisite: HMAP 5260.

HMAP 6910. Doctoral Independent Study in Health Management & Policy.

1-3 SCH. This academic activity includes research and other scholarly projects carried out by the student under the supervision of a School of Public Health faculty member (instructor). A

brief proposal should be written and approved by the academic advisor, and a final report should be submitted to the supervising instructor for credit. Topical or project work is chosen by the student with the consent of the supervising instructor and approval from the academic advisor. It may be repeated for credit. Offered each semester.

SCBS 5110. Behavioral and Social Aspects of Public Health.

3 SCH. This course provides an overview of the behavioral and social factors that determine the health and wellness of individuals and communities. It covers a full range of issues, from culture to policy, to delineate the casual linkage between behavior, society and health. Topics include: relevant health behavior theories and planning models and their practical applicability; the environment and health; social inequalities; race, culture, gender, and health; diversity and health; the politics of health; and the impact of the global market on health status.

SCBS 5220. Topics in Culture, Race/Ethnicity and Health.

3 SCH. This course is designed to provide the student with knowledge and understanding of multicultural issues in health and to increase awareness and sensitivity to the health needs of the various cultural and ethnic groups. Defining characteristics related to race, ethnicity, socioeconomic status, and the environment and public health implications are explored. Health status, health needs, access to care, the impact of the social and cultural environment in the group health, and implications for public health practice are analyzed. Topics may vary.

SCBS 5225. Medical Anthropology.

3 SCH. Comparative study of the biocultural and socioeconomic bases of health, cultural and social variations in illness and healing. Health in ecological context is related to social change and cultural responses to disease. Social and ethical issues are analyzed using applied anthropology and participatory research.

SCBS 5230. Community Health Education Strategies.

3 SCH. This course addresses the strategies used to deliver health education in diverse community settings. Students develop skills in assessment, planning and delivery of appropriate health information. Prerequisites: SCBS 5110 and SCBS 5400 or permission of instructor.

SCBS 5300. Introduction to Health Applied Linguistics.

3 SCH. This course provides an overview of applied linguistics, defined as the investigation of real-world problems in which language has a central role. Although two approaches to applied linguistics, that of linguistics-applied (from theory to practice) and that of applied-linguistics (from practice to theory) are considered in this course, students will learn to proceed from the problem, to the analysis and the explanation, and then to proposals for social change. Particular emphasis will be placed on the most pressing and controversial issues surrounding real-world problems involving language in health settings, including intercultural communication, language planning and policy, bilingualism, language acquisition and learning, and literacy.

SCBS 5310. Health Interpreting.

3 SCH. This course is designed for future interpreters in healthcare settings. Exercises in Spanish and English include: shadowing, dual tasking, and memory development. Students will receive training in both consecutive and simultaneous interpreting. Component skills are also

addressed, such as abstraction, note taking, expansion, cloze, and prediction. Simultaneous interpretation skills covered in the course include restructuring, coping skills, simultaneity, and repair strategies. Strategies for developing glossaries will be discussed, as well as skills-development in sight translation. This course is designed for interpreters who will be working in the healthcare system. The course also covers pre-requisite skills and knowledge for healthcare interpreters; roles and protocol for healthcare interpreters; healthcare terminology, and ethics and HIPAA training.

SCBS 5320. Research Methods in Linguistics for Health Settings.

3 SCH. The purpose of this course is to examine various methodological approaches to conducting research, critically evaluate research methods and findings, and experience the challenges of carrying out field work. Students will read and critically analyze studies and will carry out a pilot research project. Particular emphasis will be placed on ethnography of communication and interactional sociolinguistics as frameworks for examining provider-patient and provider-interpreter-patient discourse in healthcare settings. Prerequisites: SCBS 5300 and SCBS 5310.

SCBS 5330. Text Linguistics and Translation.

3 SCH. In this course, students will become acquainted with text linguistics, in particular, the study of texts in different languages, their linguistic features, and cross-linguistic differences between texts. Topics covered will include: contrastive rhetoric, genre analysis, reading processes, corpus linguistics, and translation in health settings. Prerequisites: SCBS 5300 and SCBS 5310.

SCBS 5340. Sociolinguistics for Interpreting in Healthcare.

3 SCH. In this course, students will become acquainted with the analysis of discourse and sociolinguistic theory with an emphasis on applications to interpretation and healthcare settings. Topics covered include conversation structure, pragmatics, discourse models, diglossia, language contact, language attitudes, language policy, bilingualism, and pidgins and creoles. Students will study the ways in which language use represents fundamental dimensions of social behavior and human interaction, and the mutual effect of language on health and health on language. The course focuses on how the relationship between language and society affects a wide range of encounters, from broadly based international relations to narrowly defined interpersonal relationships, including healthcare provider-patient interaction. Prerequisites: SCBS 5300 and SCBS 5310.

SCBS 5400. Community Health.

3 SCH. This course provides an introduction to major community health issues and general principles of health planning and program development. Community-based public health programs are oriented toward a perspective that links together strategies to address public health problems, with practical techniques for community assessment and program evaluation.

SCBS 5410. Community Assessment.

3 SCH. This course provides an introduction to community assessment as it pertains to the functions of public health. As one of the core functions of public health, community assessment facilitates problem solving and policy development. The course covers concepts relevant to

community diagnosis such as statistics on health status, health resources, health needs and health problems as well as the systematic collection, assembly, analysis, and interpretation of data related to the characteristics, resources, and health of the community.

SCBS 5420. Texas-Mexico Border Health Issues.

3 SCH. This experiential course focuses on issues surrounding public health on the Texas-Mexico border. Border health issues addressed include cultural diversity; water and waste water treatment; air and water pollution; and zoonotic, acute infectious and chronic disease control. Course includes on-site study in Laredo and/or other border communities. Enrollment limited. Prerequisites: ENVR 5300, SCBS 5110, SCBS 5400 plus 6 hours of additional course work and approval of the instructor.

SCBS 5430. Health Communication Strategies in Public Health.

3 SCH. This course is designed to provide a step-by-step approach to developing, implementing, and evaluating a health communication plan designed to influence voluntary behavior change of target audiences to improve their personal welfare and that of their society. The role of media and other channels will be evaluated as part of health communication strategies. National and international health communication campaigns will be analyzed.

SCBS 5440. Language and Literacy in Latino Health.

3 SCH. This course provides an overview of the important role that language, literacy, and communication issues play in the health and wellness of Latino populations in the United States. It covers a full range of issues, from demographics to patient rights, to delineate the causal linkage between language and health. Topics include: the growth of the Latino population in the U.S., Latino health disparities, a look at our unfriendly and monocultural health care system, written and oral communication, health literacy, language-related policies and regulations, overcoming language barriers, and developing effective Spanish health messages.

SCBS 5500. Introduction to International Health.

3 SCH. This introductory course provides the student with an overview of the conditions, practices and obstacles encountered in delivering primary health care in the international arena. The differences and commonality of the challenges facing the health care provider are explored. The history of international health and the roles of government and non-governmental agencies are presented along with specific models of intervention and evaluation of major international health problems.

SCBS 5560. Field Studies in International Health I.

3 SCH. Topics of special nature or of special interest to students with specific topic area of problem focus in the field of international health. Course includes field experience and project presentation. Prerequisite: Advance permission of the instructor with site and program approval. International sites may require several months of advance planning.

SCBS 5570. Field Studies in International Health II.

3 SCH. An extension of Field Studies I allowing the student defined experiences in research and/or practice. Prerequisite: Advance permission of the instructor with site and program approval. International sites may require several months of advance planning.

SCBS 5800. Capstone

3 SCH. The capstone course is designed to allow students the opportunity to apply methods and techniques learned in the M.P.H. program to a practical public health problem. All students will participate as members of a team to conduct a project focused on a public health problem and will then communicate their results in a written report. The course is designed to partially meet the culminating experience requirement for students in the Department of Social and Behavioral Sciences. It is recommended that students take the course after completing at least 30 hours of core and departmental coursework. Consistent attendance is strongly advised (student must also complete SPH 5900). This course will be offered in the Fall semester and may be used by both Social and Behavioral Science students and Health Management and Policy students as the culminating experience.

SCBS 5910. Independent Study in Social & Behavioral Sciences.

1-3 SCH. For students capable of independently completing topical studies or projects through conferences and activities directed by the instructor. Topical or project work is chosen by the student with the consent of the instructor. May be repeated for credit.

Offered each semester.

SCBS 6170. Qualitative Research Methods.

3 SCH. The course integrates qualitative research design with grounded theory, participatory research and evaluation, and ethical guidelines for community health and mental health research. Methods and techniques include ethnography, participant observation, interviews, narratives, oral and life histories, natural and group observation, focus groups, and qualitative data analysis.

SCBS 6300. Health Behavior Theory and Practice.

3 SCH. This course consists of a review and analysis of the most relevant health behavior theories, including their development process, assumptions, and constructs. Emphasis is given to the practical application of theory in public health approaches in general, and in health education and promotion in particular.

SCBS 6400. Research Methods in Social and Behavioral Sciences.

3 SCH. An advanced methods seminar in research design and methodology. The course objective is to provide students with instruction and hands-on experience in applying methods of primarily quantitative analysis to research problems associated with social and behavioral aspects of public health.

SCBS 6405. Disparities in Health.

3 SCH. An advanced seminar for doctoral students in public health. The course objective is to provide students with instruction and hands-on experience in understanding the social and behavioral factors associated with ethnic, racial and gender disparities in health. Issues to be addressed include: income inequality and health, discrimination, social justice and health, transforming economic conditions and health, and cultural incompetence in health care. Research on health disparities will be examined taking into consideration an array of social, political and economic forces.

SCBS 6855. Social and Behavioral Practice Residency.

4 SCH. This academic activity provides doctoral students with experience in the application and practice of social and behavioral sciences through directed work in practice settings. Students are required to commit a substantial number of hours to the practice experience, produce a written report of project(s) undertaken in the placement, and give a poster or oral presentation of their practice experience. The written report should be presented in the form of a publishable article to be submitted to public health related peer-review journal. Placements and practice activities are selected to complement the student's academic and professional plans and may be used to collect the data for the dissertation. Students must obtain approval of their choice of practice placement and plan for the practice experience plan in the semester prior to registering. Requirements may be completed over the period of more than one semester with approval of the academic advisor and the practice coordinator. This course requirement may not be waived.

SCBS 6910. Doctoral Independent Study in Social & Behavioral Sciences.

1-3 SCH. This academic activity includes research and other scholarly projects carried out by the student under the supervision of a School of Public Health faculty member (instructor). A brief proposal should be written and approved by the academic advisor, and a final report should be submitted to the supervising instructor for credit. Topical or project work is chosen by the student with the consent of the supervising instructor and approval from the academic advisor. It may be repeated for credit. Offered each semester.

SPH 5145. Seminar in Public Health.

3 SCH. Topics in public health practice examined. Topics vary. May be repeated for credit.

SPH 5850. Practice Experience in Public Health.

3 SCH. This course provides students with experience in public health practice through directed work in practice settings. Students are required to commit 135 hours to the practice experience, produce a written report of project(s) undertaken in the placement, and give a poster presentation of their practice experience. Placements and practice activities are selected to complement the student's academic and professional plans. Students must obtain approval of their choice of practice placement and plan for the practice experience in the semester prior to registering in SPH 5850. SPH 5850 requirements may be completed over the period of more than one semester with approval of the practice coordinator. This course is graded on a Pass/Fail basis only. Prerequisite: Students must have completed 21 credit hours, 6 of those hours must come from their own departmental concentration area.

SPH 5900. Professional Report.

3 SCH. The student conducts an individual project that addresses a well-focused public health question or issue. Work is conducted under the supervision of a faculty committee. A written report of the project is required as well as an oral presentation by the student to the supervisory faculty committee. SPH 5900 is designed to partially meet the culminating experience requirement for the M.P.H. (student must also complete SPH 5800). The student must maintain continuous enrollment in SPH 5900 until the requirements are completed. This course is graded on a Pass/Fail basis only.

SPH 5950. Thesis.

3 SCH. The thesis requires the student to conduct and prepare the written thesis under the supervision of a faculty committee.

The thesis is written in traditional academic style or in journal article manuscript format. The student must complete an oral defense of the thesis. The student must maintain continuous enrollment in SPH 5950 until the requirements are completed and the thesis is approved by the dean. May be repeated for credit. A minimum of 6 SCH is required to meet the M.P.H. culminating experience requirement. This course is graded on a Pass/Fail basis only.

SPH 6145. Doctoral Seminar in Public Health.

3 SCH. Topics in public health practice examined. Topics vary. May be repeated for credit.

SPH 6150. Current Topics.

1 SCH. This course/seminar provides students with knowledge and practical skills to effectively apply core concepts of public health for the critical review of technical and scientific publications.

The course provides opportunities for graduate students to update themselves on relevant topics related to public health as well as discuss methodological issues as they apply to specific technical or research reports and publications. This course includes several academic activities, such as critical review of classic public health literature and recent findings on major public health problems; presentation of selected topics on prevention, control and elimination of diseases or conditions of public health importance; and student presentations of research proposals or results of doctoral dissertations. Topics vary.

SPH 6850. Public Health Practice Residency.

4 SCH. This academic activity provides doctoral students with experience in public health practice through directed work in practice settings. Students are required to commit a substantial number of hours to the practice experience, produce a written report of project(s) undertaken in the placement, and give a poster or oral presentation of their practice experience. The written report should be presented in the form of a publishable article to be submitted to a public health related peer-review journal. Placements and practice activities are selected to complement the student's academic and professional plans. Students must obtain approval of their choice of practice placement and plan for the practice experience plan prior to registering. Requirements may be completed over the period of more than one semester with approval of the academic advisor and the practice coordinator. The student must maintain continuous enrollment in SPH 6850 until the requirements are complete. This course requirement may not be waived. This course is graded on a Pass/Fail basis only.

SPH 6950. Doctoral Dissertation.

3 SCH. The doctoral dissertation must consist of original research or public health program development and testing that is focused on a particular health problem. The student's advisor is expected to provide guidance in the selection of a suitable project that provides for a clear direction for implementing the research or program. The student must complete an oral defense of the dissertation. The student must maintain continuous enrollment in SPH 6950 until the requirements are completed. May be repeated for credit. A minimum of 9 SCH is required for the Dr.P.H. degree. This course is graded on a Pass/Fail basis only.

University of North Texas at Denton

The following courses are offered at the University of North Texas. Consult the appropriate department at UNT for frequency of course offerings. The main telephone number for UNT is 940-565-2000.

Biological Sciences (BIOL)

BIOL 5040. Contemporary Topics in Environmental Science and Ecology.

1-3 hours. Contemporary topics and issues in environmental science and ecology. Topical themes include global climate change, biodiversity, wetlands, population and aquatic, terrestrial or plant ecology. May be repeated for credit as topics vary.

BIOL 5040. Topics: Air Pollution.

3 hours. A contemporary topics offering focusing on air pollution; its measurement and composition; pollution dispersal; and pollution sources and control measures. Students must concurrently enroll in laboratory.

BIOL 5040. Topics: Air Pollution Laboratory.

1 hour. Laboratory for air pollution sampling methods and analyses.

BIOL 5360. Chemistry of Water and Water Pollution.

4 hours. Chemical and engineering approaches to water and wastewater treatment. Laboratory studies for assessing chemicals in water and waste water. Application of standardized analytical methods for evaluating water quality. Prerequisite: 6 SCH of chemistry.

BIOL 5380. Fundamentals of Aquatic Toxicology.

4 hours. Theory and methodologies used by scientists, regulatory agencies and industry to measure the impact of man's activities on freshwater aquatic ecosystems. The course has its foundations in history, but concentrates on current methodologies and theories.

BIOL 5880. Environmental Sciences Seminar Series.

1 hour. A weekly seminar series covering a broad range of environmental research topics. Invited speakers are prominent local, regional or national researchers. Pass/no pass only.

Geography (GEOG)

GEOG 5400. Environmental Modeling.

3 hours. Modeling of environmental processes and human impacts on the environment to include topics on sensitivity, calibration and evaluation, watersheds, non-point source pollution, hydrological models, GIS, water and air quality models, pollutant transport and fate, and ecotoxicology. Prerequisite(s): graduate standing or consent of department.

GEOG 5500. Introduction to Geographic Information Systems.

3 hours. Introduction to the concepts of computer-based spatial data handling, known as Geographic Information Systems (GIS) technology. Presents the concepts of GIS in a general

way utilizing several GIS packages and hypothetical GIS problems. Prerequisite: consent of the department.

GEOG 5600. Seminar in Environmental Policy.

3 hours. Analysis and evaluation of environmental policy, including spatial, historical, economic, ecological and institutional dimensions of contemporary resource management issues.

8 Faculty Officers & Staff

School of Public Health Faculty

Bae, Sejong, M.S., Ph.D.,

Assistant Professor;
Department of Biostatistics;
M.S., University of Alabama at Birmingham;
Ph.D., University of Georgia.

Bayona, Manuel, M.D., M.S., Ph.D.,

Associate Professor;
Department of Epidemiology;
Director, Doctor of Public Health Program;
M.D., School of Medicine, National University of Mexico;
M.Sc., School of Medicine, National University of Mexico;
Ph.D., Johns Hopkins University.

Borders, Tyrone, M.A., M.S., Ph.D.,

Associate Professor;
Department of Health Management & Policy;
M.A., The University of Iowa;
M.S., The University of Iowa;
Ph.D., The University of Iowa.

Cardarelli, Kathryn, M.P.H., Ph.D.,

Assistant Professor;
Department of Epidemiology;
M.P.H., University of North Texas Health Science Center at Fort Worth;
Ph.D., University of Texas School of Public Health.

Chen, Shande, M.A., Ph.D.,

Associate Professor;
Department of Biostatistics;
M.A., University of Rochester;
Ph.D., University of Rochester.

Cipher, Daisha, M.S., Ph.D.,

Assistant Professor;
Department of Biostatistics;
M.S., University of Texas Southwestern Medical Center at Dallas;
Ph.D., Southern Methodist University.

Coggin, Claudia, M.S., C.H.E.S., Ph.D.,

Assistant Professor;
Department of Social and Behavioral Sciences;
B.S., Trinity University;
M.S., Texas Woman's University;
Ph.D., Texas Woman's University.

Fairchild, Thomas, M.A., Ph.D.,

Associate Professor;
Department of Health Management and Policy;
B.S., Wayne State University;
M.A., Wayne State University;
Ph.D., Wayne State University.

Fischbach, Lori, M.P.H., Ph.D.,

Assistant Professor;
Department of Epidemiology;
B.S., University of Arizona;
M.P.H., University of California at Los Angeles;
Ph.D., University of California at Los Angeles.

Galvan, Robert, M.S., M.P.H., Dr.P.H.,

Associate Dean for Community Health;
Assistant Professor;
Department of Social and Behavioral Sciences;
B.S., Texas A&M-Commerce;
M.S., University of Texas at Dallas;
M.P.H., University of North Texas Health Science Center at Fort Worth;
Dr.P.H., University of North Texas Health Science Center at Fort Worth.

Gonzalez, Adela, M.P.A., Ph.D.,

Interim Chair and Assistant Professor;
Department of Health Management and Policy;
B.A., University of Corpus Christi;
M.P.A., Southwest Texas State University;
Ph.D., Walden University.

Gratton, Terrance, M.S., Dr.P.H.,
Assistant Professor;
Department of Environmental and Occupational Health;
B.A., St. Mary's University;
M.S., Incarnate Word College;
Dr.P.H., University of Oklahoma Health Science Center.

Hilsenrath, Peter E., Ph.D.,
Professor;
Department of Health Management and Policy;
B.A., University of California at Santa Cruz;
Ph.D., University of Texas.

Kaman, Robert, M.S., J.D., Ph.D.,
Associate Professor;
Department of Health Management and Policy;
B.A., University of Pennsylvania;
M.S., Virginia Tech;
Ph.D., Virginia Tech;
J.D., Texas Wesleyan University School of Law.

Lurie, Sue Gena, M.A., Ph.D.,
Assistant Professor;
Department of Social and Behavioral Sciences;
B.A., University of South Carolina;
M.A., University of North Carolina;
Ph.D., University of Oklahoma;
NIMH Postdoctoral Fellow, Northwestern University.

Lykens, Kristine, M.P.A., Ph.D.,
Assistant Professor;
Department of Health Management and Policy;
B.A., Indiana University;
M.P.A., University of Texas at Dallas;
Ph.D., University of Texas at Dallas.

Mains, Douglas A., M.P.Aff., M.B.A., Dr.P.H.,
Assistant Professor;
Department of Health Management and Policy;
B.A., University of Texas at Austin;
M.P.Aff., M.B.A., University of Texas at Austin;
Dr.P.H., University of Texas School of Public Health.

Rene, Antonio, M.P.H., Ph.D.,

Associate Director, Institute for Public Health Research;
Assistant Professor;
Department of Epidemiology;
B.S., Southern University;
M.P.H., University of Texas School of Public Health;
Ph.D., University of Texas School of Public Health.

Sandhu, Raghbir, M.D., Dr.P.H., DTM&H,

Assistant Professor;
Department of Epidemiology;
M.B.B.S., University of Jammu and Kashmir;
DTM&H, University of Liverpool;
D.P.H., University of London;
Dr.P.H., University of Texas School Public Health.

Singh, Karan, Ph.D.,

Professor and Chair;
Department of Biostatistics;
B.Sc., Merrut University;
M.Sc., CCSHA University;
M.S., Old Dominion University;
Ph.D., University of Memphis.

Soto, Francisco, M.D., Ph.D.,

Assistant Professor;
Department of Social and Behavioral Sciences;
M.D., University of Granada School of Medicine;
M.P.H., University of Arizona School of Public Health;
Ph.D., University of New Mexico.

Treviño, Fernando M., M.P.H., Ph.D.,

Dean, School of Public Health;
Director, Institute for Public Health Research;
Professor, Health Management and Policy;
B.S., University of Houston;
M.P.H., University of Texas School of Public Health;
Ph.D., University of Texas Medical Branch, Galveston.

Trieff, Norman, M.S., Ph.D.,

Professor;
Department of Environmental and Occupational Health;
M.S., State University of Iowa;
Ph.D., New York University.

Urrutia-Rojas, Ximena, R.N., M.P.H., Dr.P.H.,
 Assistant Professor;
 Department of Social and Behavioral Sciences;
 B.S.N., University of Concepcion;
 M.P.H., University of Texas School of Public Health;
 Dr.P.H., University of Texas-Houston School Public Health.

Adjunct Faculty, General School of Public Health Listing

Rafael Alvarez-Gonzalez, Ph.D., Associate Professor
Cody Arnold, M.D., Assistant Professor
Sam Atkinson, M.S., Ph.D., Adjunct Professor
Leon Brachman, B.S., Instructor
Sharon Clark, D.O., M.A., M.P.H., Adjunct Assistant Professor
Ivan Danhof, Ph.D., M.D., Professor
Nelson Fong, Ph.D., M.S., Associate Professor
Gretchen Gibson, D.D.S., M.P.H., Assistant Professor
Ronald Goldfarb, Ph.D., Professor
Alecia Hathaway, M.D., M.P.H., Clinical Assistant Professor
Janet Helduser, M.A., Instructor
Karl Ka-yiu Ho, Ph.D., Assistant Professor
Connie Hodges, D.V.M., Ph.D., Assistant Professor
Janice Knebl, D.O., Professor
Thomas Murnane, D.V.M., Professor
Hector Ortega, M.D., Assistant Professor
Gilbert Ramirez, Dr.P.H., Associate Professor
Mary Shaw-Perry, Ph.D., Assistant Professor
William Spears, Ph.D., Assistant Professor
Glenda Thompson, R.N., M.S.N., Instructor
Robert Treviño, M.D., Associate Professor
Barney Venables, Ph.D., Professor
Susan Ward, R.N., Ph.D., Associate Professor
Stephen Weis, D.O., Professor

Professional Library Faculty

Brooks, Ann, M.L.S., M.B.A.,
 Associate Director, Public Services;
 Assistant Professor;
 Medical Education;
 B.S., California State Polytechnic University;
 M.L.S., University of Pittsburgh;

M.B.A., Texas Christian University.

Burgard, Daniel E., M.S.L.I.S., A.H.I.P.,

Instructional Services Librarian;

Assistant Professor, Medical Education;

B.S. and M.S.L.I.S. University of Illinois At Urbana-Champaign.

Carter, Bobby R., M.S.,

Associate Vice President for Information;

Resources and Director, Library Services;

Associate Professor, Medical Education;

B.S., University of Houston;

M.S., Louisiana State University.

Elam, Craig S., M.L.S., A.H.I.P.,

Associate Director, Technical Services;

Assistant Professor, Medical Education;

A.B., Stanford University;

M.L.S., University of California at Berkeley.

Johnson, Lynn F., M.I.S., A.H.I.P.,

Special Projects Librarian;

Instructor, Medical Education;

B.S., Arkansas Tech University;

M.I.S., University of North Texas.

King, Linda, M.L.S., A.H.I.P.,

Reference Coordinator;

Instructor, Medical Education;

B.A., California State University at Dominguez Hills;

M.L.S., University of California at Los Angeles.

Martin, Dohn H., M.S., M.S.L.S.,

Associate Director, Biomedical Informatics;

Instructor, Medical Education;

M.S.L.S., University of North Carolina at Chapel Hill.

Mason, Timothy D., M.L.S.,

Technical Services Librarian;

Instructor, Medical Education;

B.A., University of Cincinnati;

M.L.S., University of North Texas.

Raines, Jack W., M.L.I.S., M.A.T.,

Extension Librarian;

B.A. and M.A.T., Georgia State University;

M.L.I.S., University of Hawaii.

White, Sherry, M.L.S.,
Serials Librarian;
Instructor, Medical Education;
B.A., Southwest Texas State University;
M.L.S., University of Texas at Austin.

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Associate Director of Student Affairs for Student Development

Peg Dansereau,

Associate Director of Student Affairs for Academic Support

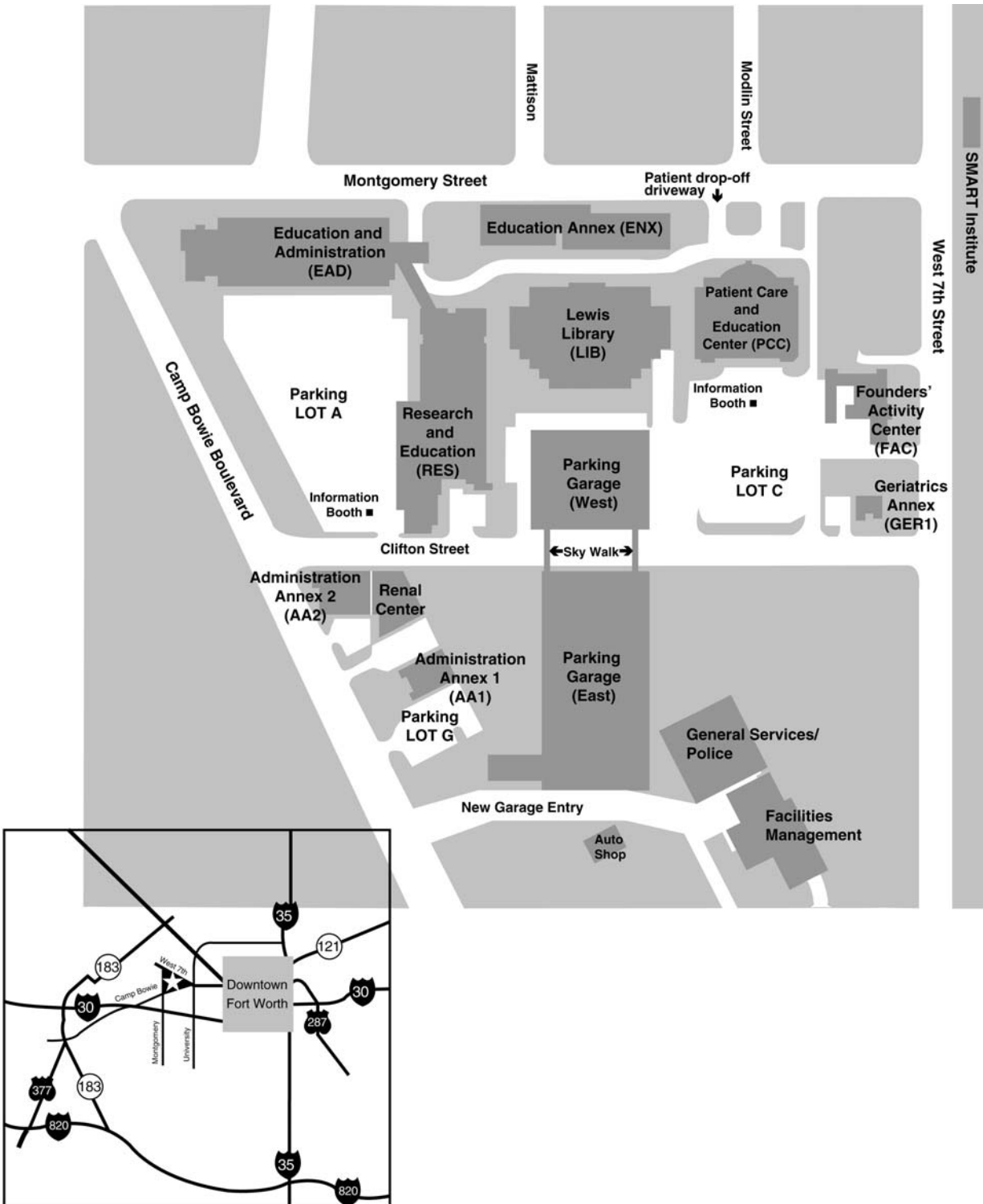
School of Public Health**Fernando M. Treviño, Ph.D., M.P.H.,** Dean**Bob Galvan, Dr.P.H., M.P.H., M.S.,** Associate Dean for Community Health**Manuel Bayona, M.D., M.S., Ph.D.,** Director, Doctor of Public Health Program**Isabel Estrada,** Senior Executive Assistant

Vikas Tomar, M.S., Web Administrator/Computer Support
Diane Wynn, M.Ed., Executive Director, Student Services and Academic Affairs
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Karan Singh, Ph.D. Department Chair
Adela Gonzalez, M.P.A., Ph.D., Interim Department Chair

Campus Map



Campus Phone Numbers

Main Number.....	817-735-2000	Information Technology	
Metro.....	429-9120	Services.....	2146
Administration.....	2555	Computer Operations &	
Job Line.....	2675	Client Support (COCS).....	2192
Emergency/Campus Police.....	2600	Systems & Programming.....	5049
		Telecommunications.....	2595
Departments.....	817-735-Extension	Records Management.....	5011
Accounting.....	2530	Institutional Advancement.....	5493
Accounts Payable.....	2542	Alumni Affairs.....	2552
Student Receivables.....	2548	Development.....	5044
Administrative Affairs.....	2525	Foundation.....	2613
Biomedical Communications.....	2470	Institutional Research.....	0450
Audiovisual.....	2479	Integrative Physiology.....	2080
AV/TV Repair.....	2488	Internal Audits.....	2167
Copier Services.....	2020	Internal Medicine - Academic.....	2333
Instrumentation Lab.....	2614	Lab Animal Medicine.....	2017
Medical Arts.....	2022	Legal Affairs.....	5063
Photography.....	2474	Library (Main Circulation Desk).....	2465
Print Services.....	2057	Administration.....	2380
Television.....	2476	Media Resources.....	2492
Budgets & Accounts Management.....	2630	Reference.....	2070
Campus Police.....	2210	Mail Service.....	2219
Emergencies.....	2600	Manipulative Medicine - Academic.....	2498
Cashier.....	2534	Marketing & Communications.....	5023
Central Services.....	2155	Medical Education.....	2632
Central Supply.....	2682	Academic Information Services.....	2129
Clinical Education.....	2537	Faculty Development/	
Clinical Labs/Pathology.....	2143	Instructional Technology.....	2515
Clinical Trials.....	2358	Integrative Medical Education.....	5007
Compliance Office.....	2029	Medical Humanities.....	2451
Continuing Medical Education.....	2539	Phase & Course Directors.....	2528
Cowtown Marathon.....	2033	Molecular Biology & Immunology.....	2112
DNA Laboratory.....	5015	MSRDP (Med Services Research	
Educational Affairs.....	2510	& Development Plan).....	2571
Emergency Medicine-Academic.....	2275	Chief Operating Officer/	
Equal Employment		Exec. Director.....	2571
Opportunity Office.....	2357	Billing/Insurance Service/	
Facilities Management.....	2181	Collections.....	5065
Building Maintenance.....	2181	Systems & Training.....	5125
Construction Services.....	2261	Multicultural Affairs.....	0169
Custodial Services.....	5072	Obstetrics & Gynecology	
Facilities Management Services.....	2289	Academic.....	2351
Utilities.....	2626	Pathology & Anatomy.....	2429
Family Medicine – Academic.....	2440	Division of Cell Biology & Genetics.....	2045
Finance & Administration.....	2525	Payroll.....	2594
Founder's Activity Center.....	2209	Pediatrics - Academic.....	2426
Geriatric Fellowship Program.....	0158	Pharmacology & Neuroscience.....	2056
Governmental Affairs.....	2500	Pharmacy.....	2249
Graduate School of		Physicians & Surgeons Medical Group	
Biomedical Sciences.....	2560	Administrative Offices.....	2571
Grant & Contract Management.....	5073	Physician Assistant Studies	
Human Resource Services.....	2690	Academic.....	2301
		President, Office of the.....	2555
		Property Control.....	2152
		Provost, Office of the.....	2506
		Purchasing.....	2680

Campus Phone Numbers *continued*

Quality Management	
& Managed Care	2396
Radiology - Academic	2400
Research & Biotechnology	5400
Safety Office	2697
School of Public Health	2252
....Office of Student Services and Academic	
Affairs	2401
Special Projects on Again	5440
Strategic & Institutional Affairs	5087
Student Affairs	2505
Academic Support	2407
Financial Aid	2520
Registrar	2201
Student Development Coordinator	5006
Student Government Association	
Office	2421
Student Lounge	2309
Surgery - Academic (Division under TCOM)	
.....	2411
Medical Student Admissions	2204
Texas College of Osteopathic Medicine	2416
Training & Staff Development	0286
Travel	2547

Research Institutes

Cardiovascular Research Institute	5008
Geriatric Education & Research Institute	5440
Institute for Aging &	
Alzheimer's Disease Research	2063
Institute for Public Health Research	2323
North Texas Eye Institute	2045
Institute for Cancer Research	2113
Physical Medicine Institute	2461

Toll Free Numbers

Alumni Office	800-687-7580
Financial Aid	800-346-8266
Graduate School	
of Biomedical Sciences	800-511-4723
Library	800-687-5302
Pathology/DNA	800-687-5301
School of Public Health	877-868-7741
TCOM Admission	800-535-8266

Frequently Called Numbers

University of North Texas - Denton	
Main Number	940-565-2000
Metro	817-267-3731