

Dual Degree: Master's of Public Health (MPH) and Master's of Science in Geography (MS)

This collaboration between the UNT Health Science Center, School of Public Health and UNT-Denton, Department of Geography involves the application of geospatial analysis and technology to the study of public health. Applications include disease surveillance, health risk analysis, health access and planning, policy development and community health profiling—of relevance to all fields in public health. Students in this program will apply methods of geospatial analysis to public health research, practice and policy; for example, they will utilize geospatial tools and predictive modeling to explore changes in morbidity and mortality based upon environmental influences (such as air quality, water quality and climate change) and socioeconomic indicators (such as healthcare access, income and education). Students will learn applications of geographic information systems (GIS) software and geodatabase design to accessing, managing and analyzing health data from a spatial perspective.

MPH Required Courses ^f		Course Offerings ^a	Hours
BACH 5300	Theoretical Foundations of Individual and Community Health ^b	SSF	3
BIOS 5300	Biostatistics for Public Health ^b	SSF	3
EOHS 5300	Environmental Determinants of Health ^b	SSF	3
EPID 5300	Principles of Epidemiology ^b	SSF	3
HMAP 5300	Introduction to Health Management and Policy ^b	SSF	3
	Elective ^c (Must be an approved elective from UNTHSC - SPH)	SSF	3
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EOHS 5297	Public Health Practice Experience	SSF	1.5
PHED 5197	MPH Portfolio ^b	FA and SP	1.5
			24

Shared and Transfer Courses		Course Offerings ^a	Hours
BIOS 5310/GEOG 5190	Intermediate Biostatistics/Advanced Quantitative Methods	SP (BIOS and GEOG)	3
EOHS 5362/GEOG 5580	GIS and Health/Health GIS	FA (EOHS-online and GEOG), SP (EOHS-online)	3
EOHS 5364/GEOG 5140	Medical Geography	SP (EOHS-online and GEOG)	3
BACH 5314/GEOG 5800	Quantitative Research Methods/Research Design and Geographic Applications	FA (BACH and GEOG)	3
Culminating Requirements			
PHED 5000	Certification in Public Health (Examination)		0
EOHS 5395/GEOG 5950	Thesis (6 SCH) ^e		6
			18

MS Required Courses ^f		Course Offerings ^a	Hours
GEOG 5145	Epidemiological Research Methods in Spatial Perspective	FA	3
GEOG 5510	GIS for Applied Science	FA	3
GEOG 5520	Intermediate GIS	SP	3
GEOG 5550	Advanced GIS	FA	3
GEOG 5160	Foundations of Geographic Thought	FA	3
GEOG XXXX	Elective ^d (Must be an approved elective from UNT-Denton)	SSF	3
			18

TOTAL SEMESTER CREDIT HOURS (SCH) FOR DUAL DEGREE [REQUIRED MPH + REQUIRED MS + SHARED]: 60

MPH = 42 SCH; MS = 36 SCH; TOTAL PRACTICE EXPERIENCE = 200 HOURS

- ^a SSF = Summer, Spring and Fall Semester; SP = Spring Semester only; FA = Fall Semester only; SS = Summer Semester only.
 - ^b Course is available online SSF and on-campus FA and SP. Online are condensed 8-week courses.
 - ^c MPH electives may be selected from: EOHS 5310 - Evaluation and Control of Biological Agents and Infectious Disease (FA); EOHS 5318 - Animals and Humans and the Diseases they Share (FA and SP); EOHS 5324 - Water and Public Health (SP); EOHS 5322 - Air Pollution and Health (FA); EOHS 5330 - Recognition, Evaluation and Control of Environmental Hazards (SP); EOHS 5350 - Environmental and Occupational Toxicology (SP); EOHS 6366 - Geospatial Applications (SS); EPID 5318 - Chronic Disease Epidemiology (SP); EPID 5320 - Infectious Disease Epidemiology (FA); and BACH 5324 - Introduction to Health Disparities (SP).
 - ^d MS electives may be selected from: GEOG 5210 - Seminar in Urban Geography (SP); GEOG 5410 - Location-Allocation Modeling (SP); GEOG 5600 - Seminar in Environmental Policy (SP); GEOG 5700 - Global Environmental Change (FA); GEOG 5960 - Computational Epidemiology (SP); and GEOG 5960 - Introduction to Remote Sensing (FA).
 - ^e Thesis must meet requirements for both the MPH and MS.
 - ^f Students must apply separately to each program and be admitted to both programs. They must graduate at the same time from both programs (and will receive two separate degrees, one from each university). If they graduate with a single degree, or at different times, there may be additional course requirements.
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