Health Science

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The Department of Health Sciences (DHS) is part of the School of Health Professions (SHP), which serves the citizens of Missouri through its outstanding research, community service clinics, and the education of students in the areas of health literacy and health promotion. Faculty in DHS teach courses for the health science program and are actively involved in a wide range of interdisciplinary research. Our faculty provide expertise in several domains including public health, psychology, sociology, medical anthropology, education, and social work. Faculty research covers a wide range of topics including health promotion, health communication, decision support, health disparities for disadvantaged groups, and access to healthcare. Our research also spans a number of substantive areas including Autism Spectrum Disorders, breast cancer, HIV/AIDS, aging, and adolescent health.

Students can only earn the BHS in Health Science concurrently with the Doctor of Physical Therapy (http://catalog.missouri.edu/undergraduate/graduate/healthscience/physicaltherapy/dptphysical-therapy) if they have been admitted through the Department of Physical Therapy’s early admission program option. Students who choose to pursue this option are strongly encouraged to work with their advisor to ensure completion of degree requirements.

Faculty

Professor Teaching D. Hume*
Associate Professor E. Schatz*, V. Shaffer, M. Teti
Associate Clinical Professor R. Hogan
Associate Teaching Professor B. Blackburn, K. Flynn Peters, M. Kuhnert, L. Saffran
Assistant Professor C. Altman, N. Cheak-Zamora*, J. Chen, H. Choi, A. Kabel*, W. Majee
Assistant Teaching Professor B. Blackburn, R. Bowman, D. Gerhart, C. Orbann, M. Vetter-Smith
Instructor J. Wintemberg

* Graduate Faculty Member - membership is required to teach graduate-level courses, chair master's thesis committees, and serve on doctoral examination and dissertation committees.
** Doctoral Faculty Member - membership is required to chair doctoral examination or dissertation committees. Graduate faculty membership is a prerequisite for Doctoral faculty membership.

Undergraduate

• BHS in Health Science (http://catalog.missouri.edu/undergraduate/graduate/healthscience/bhs-health-science)
  • with emphasis in Pre-Professional (http://catalog.missouri.edu/undergraduate/graduate/healthscience/bhs-health-science-emphasis-pre-professional)
  • with emphasis in Leadership & Policy (http://catalog.missouri.edu/undergraduate/graduate/healthscience/bhs-health-science-emphasis-leadership-policy)
  • with emphasis in Health & Wellness Services (http://catalog.missouri.edu/undergraduate/graduate/healthscience/bhs-health-science-emphasis-health-wellness)

The Department of Health Sciences’ BHS in Health Science degree program is for students who wish to enter non-clinical health careers such as medical case management, corporate wellness, human services, medical sales, pharmaceutical manufacturing and distribution, and more. Graduates of the Health Science degree program may also be qualified to enter either graduate or professional health science programs such as Occupational Therapy, Physical Therapy, Health Administration and Public Health. The Health Science program requires physical, biological, behavioral and social sciences to provide students with an education in foundational sciences, human function, health research, service and policy.

The department offers the Bachelor of Health Science (BHS). Students who start at the University of Missouri or declare the health science degree in Fall 2016 or later must declare an emphasis area upon declaring the major. Students in the Mizzou Online program will not be required to declare an emphasis area, though declaring an emphasis area may be an option depending on the student's interests and background.

Departmental Requirements

Courses may be delivered using traditional or distance delivery methods. The Health Science degree program credits must include a minimum of 120 university-level credit hours, including: general education (http://catalog.missouri.edu/academicdegreerequirements/generaleducationrequirements) coursework, core required courses that comprise a minimum of 20 credit hours, professional emphasis requirements, 18 hours of approved, required electives that complement the student's intended pathway.

Students are required to file a graduation plan for the Health Science degree by the time they have completed 60 university-level credit hours, including all MU and transfer credits. Students should meet with their academic advisor to discuss the graduation plan, and then file their plan prior to early registration for the fall and spring semesters. Students who transfer from another institution or another school/college at MU with 60 or more hours must file their graduation plan within the first semester of enrollment in the Health Science program.

Residency Requirement

There is a residency requirement for Health Science majors. Students must complete, at minimum, their last 30 hours of coursework for the degree as declared Health Science majors in the School of Health Professions. The 30 hour residency requirement applies to students who wish to declare an emphasis area, as well. Students must be in the Health Science major at the beginning of a semester to include the hours in the residency requirement. Residency requirement hours for students transferring into the major during the semester will begin the following semester.
Admission to the BHS in Health Science

The BHS in Health Science Program does not require an application. Students may declare the major, and emphasis area, by indicating it on the MU admission application (for new students), completing a transfer of division form (for current MU students), or notifying their academic advisor of their intention to declare a Health Science major (for current SHP students). There is a 2.0 MU, cumulative and term GPA requirement to declare a major in Health Science. The cumulative GPA is calculated using all MU and transfer coursework. Students must maintain the 2.0 GPA, term and cumulative, to remain in the Health Science program. Students who do not maintain the required 2.0 term and cumulative GPA will receive communication regarding probation or ineligible to re-enroll status. Students who fail to achieve the GPA requirement may continue in the program for two probationary semesters.

Graduate

While MU does not offer graduate degrees specifically in health sciences, the University does offer post-baccalaureate opportunities in a number of related areas, both within the School of Health Professions, and in the other Schools and Colleges that make up the University. The catalog provides a complete list of these degree options (http://catalog.missouri.edu/degreesanddegreeprograms).

HLTH_SCI 1000: Introduction to the Health Professions
Overview of clinical/non-clinical health careers; aptitudes/abilities needed for each; the history, current and future state of health care in the U.S: introduction to diverse populations and patient/family issues; Assists with career planning/selection of appropriate majors. Graded on A-F basis only.

Credit Hours: 3

HLTH_SCI 2100: Health Sciences Seminar
Professional Development course for Health Science Majors. Topics include resume development/revision, interviewing skills, applying to graduate/professional programs and/or jobs, professional communication, etc. Graded on S/U basis only.

Credit Hour: 1
Prerequisites: sophomore standing required; restricted to Health Science majors only

HLTH_SCI 2200: Nuclear Weapons: Environmental, Health and Social Effects
(same as SOCIOL 2281 and PEA_ST 2200). Environmental consequences of the nuclear arms race, "regional" nuclear war, and weapons testing for human health, agriculture, and society. Examining "a world without nuclear weapons"; political dialogue on proliferation; Iran, North Korea, and nuclear weapons conventions. Graded on A-F basis only.

Credit Hours: 3

HLTH_SCI 2200W: Nuclear Weapons: Environmental, Health and Social Effects - Writing Intensive
(same as SOCIOL 2281 and PEA_ST 2200). Environmental consequences of the nuclear arms race, "regional" nuclear war, and weapons testing for human health, agriculture, and society. Examining "a world without nuclear weapons"; political dialogue on proliferation; Iran, North Korea, and nuclear weapons conventions. Graded on A-F basis only.

Credit Hours: 3

HLTH_SCI 3300: Public Health Principles, Practice, and Education
Public Health is the science and practice of protecting and improving the health of communities through education, promotion of healthy lifestyles, and research for disease and injury prevention. This course focuses on the basic structures of the Public Health system in the U.S. and provides an introduction to the factors that influence and shape that system. Among others, factors include socioeconomic, financing, politics and global issues. Students in this course will be challenged to consider the complex web of factors affecting the health of communities. The course will explore: health needs assessments, examining relationships among behavioral, environmental and genetic factors that enhance or compromise health, examining factors that influence the learning process, and examining factors that enhance or compromise the process of health education. Graded on an A-F basis only.

Credit Hours: 3
Prerequisites: Restricted to Health Sciences Majors during pre-registration

HLTH_SCI 3300H: Public Health Principles, Practice, & Education - Honors
Public Health is the science and practice of protecting and improving the health of communities through education, promotion of healthy lifestyles, and research for disease and injury prevention. This course focuses on the basic structures of the Public Health system in the U.S. and provides an introduction to the factors that influence and shape that system. Among others, factors include socioeconomic, financing, politics and global issues. Students in this course will be challenged to consider the complex web of factors affecting the health of communities. The course will explore: health needs assessments, examining relationships among behavioral, environmental and genetic factors that enhance or compromise health, examining factors that influence the learning process, and examining factors that enhance or compromise the process of health education. Graded on an A-F basis only.

Credit Hours: 3
Prerequisites: Honors eligibility required

HLTH_SCI 3300W: Public Health Principles and Practice - Writing Intensive
Public Health is the science and practice of protecting and improving the health of communities through education, promotion of healthy lifestyles, and research for disease and injury prevention. This course focuses on the basic structures of the Public Health system in the U.S. and provides an introduction to the factors that influence and shape that system. Among others, factors include socioeconomic, financing, politics and global issues. Students in this course will be challenged to consider the complex web of factors affecting the health of communities. The course will explore: health needs assessments, examining relationships among behavioral, environmental and genetic factors that enhance or compromise health, examining factors that influence the learning process, and examining factors that enhance or compromise the process of health education. Graded on an A-F basis only.

Credit Hours: 3
Prerequisites: Restricted to Health Sciences Majors during pre-registration

HLTH_SCI 3310: Social and Behavioral Health Theory and Practice
Social and Behavioral Health (SBH) is the core discipline of public health that focuses on the factors that influence individuals’ and communities health actions and decisions. This course will take both a theoretical and a practical approach to understanding SBH. Students will gain an understanding of theory and develop practical skills to apply theories to real world health issues. Readings, assignments, and discussions will focus largely on ways to understand and change health behaviors and various individual, relational, community, and social-level influences on health. Graded on A-F basis only.

Credit Hours: 3
Prerequisites: Restricted to Health Sciences Majors during pre-registration. Sophomore standing required

HLTH_SCI 3400: Global Public Health and Health Care Systems
(same as PEA_ST 3401). An introduction to public health in a global context, with an emphasis on understanding how disparities in socioeconomic status, differences in political and national health care systems and the work of international organizations impact health in communities around the world. Graded on A-F basis only.

Credit Hours: 3
Prerequisites: Restricted to Health Sciences Majors during preregistration

HLTH_SCI 3500: Mental Health
This course provides a look at mental health problems with regard to influences, etiology, diagnosis, and treatment. Students learn theories of mental health, diagnostic criteria, treatment modalities, and community issues concerning the mental health system. Graded on A-F basis only.

Credit Hours: 3
Prerequisites: HLTH_SCI 2100

HLTH_SCI 3600: Health Promotion Programs I: Assessment and Planning
Health promotion planning is the development and implementation of a well-researched and tailored intervention to increase the health status of an individual and population. This course will provide a comprehensive introduction to health promotion planning and assessment by integrating a solid theoretical foundation of the discipline with hands-on experience in assessing needs, assets and capacity for health education, health education and project planning, funding, intervention development, implementation of health education projects, and evaluation. Special attention placed on implementing health education and promotion programs that are tailored to the particular population in need as well as specialized for the appropriate setting be it school, work, health care clinic, or the community. Graded on A-F basis only.

Credit Hours: 3
Prerequisites: Restricted to Health Science majors during pre-registration

HLTH_SCI 3610: Health Promotion Programs II: Implementation, Evaluation, and Communication
This course builds on topics covered in Health Promotion Programs I: Assessment and Planning. It will provide a comprehensive introduction to the implementation, evaluation and communication required for successful health promotion programs by integrating a solid theoretical foundation of the discipline with hands-on experience in the implementation of health promotion program, developing an evaluation and communication strategies for successful health education and health promotion programs in a variety of community-based settings. Graded on A-F basis only.

Credit Hours: 3
Prerequisites: Restricted to Health Sciences Majors only
Corequisites: HLTH_SCI 3600

HLTH_SCI 3900: Introduction to The Research Process and Evidence Base
This course provides an introduction to the basic quantitative and qualitative research techniques used in public health, health education and promotion, and the health professions. Conducting research, making medical decisions based on research findings, and using and interpreting research and evidence in practice settings all represent potential outcomes for students selecting a career in public health or the health professions. Graded on A-F basis only.

Credit Hours: 3
Prerequisites: Restricted to Health Sciences Majors with junior or senior standing

HLTH_SCI 3900W: Introduction to The Research Process and Evidence Base - Writing Intensive
This course provides an introduction to the basic quantitative and qualitative research techniques used in public health, health education and promotion, and the health professions. Conducting research, making medical decisions based on research findings, and using and interpreting research and evidence in practice settings all represent potential outcomes for students selecting a career in public health or the health professions. Graded on A-F basis only.

Credit Hours: 3
Prerequisites: Restricted to Health Sciences Majors with junior or senior standing

HLTH_SCI 4001: Topics in Health Science
Organized study of selected topics. Subjects will vary from semester to semester.

Credit Hour: 1-3
Prerequisites: Restricted to Health Sciences Majors during preregistration

HLTH_SCI 4300: Health Care in the United States
Overview of financing, structure, and outcomes in the U.S. health care system. Contemporary health care issues, policy, and politics will be addressed. Graded on A-F basis only.

Credit Hours: 3
Prerequisites: sophomore standing; Restricted to Health Sciences Majors during pre-registration

HLTH_SCI 4301: Topics in Health Science
Organized study of selected topics. Subjects will vary from semester to semester.
HLTH SCI 4300H: Health Care in the United States - Honors
Overview of financing, structure, and outcomes in the U.S. health care system. Contemporary health care issues, policy, and politics will be addressed. Graded on A-F basis only.
Credit Hours: 3
Prerequisites: Honors eligibility required

HLTH SCI 4400: Culture and Health Literacy for the Health Professions
This course will explore differences and attitudes towards the health care industry across various social, cultural and ability groups. This exploration will result in more culturally competent health professionals by promoting self-awareness and challenging the existing assumptions and biases of the health care system.
Credit Hours: 3
Prerequisites: junior or senior standing or instructor's consent

HLTH SCI 4410: Humanism and Health Literacy
This class will teach how the humanities can help students become better health professionals. Topics include: spirituality and health; non-medical factors that impact health; representation of disability in art history; and literature and health. Graded on A-F basis only.
Credit Hours: 3
Prerequisites: Restricted to Health Sciences Majors during pre-registration

HLTH SCI 4420: Health Literacy and Behavioral Compliance
Students will learn about the behavioral, psychological, and cognitive factors that impact health literacy and the ability to follow healthcare recommendations.
Credit Hours: 3
Prerequisites: Restricted to Health Sciences Majors during pre-registration

HLTH SCI 4480: Clinical Ethics
Exploration of bioethics issues in health care with emphasis on issues related to patient choice and provider responsibility. Topics include philosophical theories, principles and models for ethical and lawful decision making in healthcare.
Credit Hours: 3
Prerequisites: junior or senior standing; Restricted to Health Science majors only

HLTH SCI 4480W: Clinical Ethics - Writing Intensive
Exploration of bioethics issues in health care with emphasis on issues related to patient choice and provider responsibility. Topics include philosophical theories, principles and models for ethical and lawful decision making in healthcare.
Credit Hours: 3
Prerequisites: junior or senior standing; Restricted to Health Science majors only

HLTH SCI 4500: Health Care Management
Examines various management concepts as they relate to the unique environment of health care. Concepts include planning, decision making, budgeting, staffing, organizing, and motivating for working with individuals or teams. Graded on A-F basis only.
Credit Hours: 3
Prerequisites: HLTH SCI 2100; junior standing

HLTH SCI 4510: Essential Tools for the Health Care Leader: A Problem-Based Approach
This course is designed to increase students' ability to evaluate, synthesize, and perform tasks in the areas of business intelligence, business analysis, performance and process improvement, data management and mining, information security and privacy, and project management. Graded A-F basis only.
Credit Hours: 3
Prerequisites: Junior standing or above; HLTH SCI 2100. Restricted to Health Sciences Majors Only
Recommended: Access to and experience using Microsoft Excel 2010

HLTH SCI 4975: Internship in Health Sciences
Focuses on knowledge, skills and attitudes that enhance personal effectiveness and professional success. Opportunities to research selected career paths and related topics in health sciences and participate in directed service learning projects or internships in selected emphasis area. Graded on A-F basis only.
Credit Hour: 1-6
Prerequisites: HLTH SCI 2100

HLTH SCI 4985: Healthcare Organization and Leadership
(same as CDS 4985). In this course, students will explore leadership principles as they relate to the student's focus area, combining previous expertise in the field with an interdisciplinary perspective within the healthcare community. Graded on A-F basis only.
Credit Hours: 3
Prerequisites: HLTH SCI 2100; senior standing required