

UNDERGRADUATE PUBLIC HEALTH

Programs

Associate Dean of Undergraduate Education: Joseph Keating, PhD MA

Mission

The Tulane Bachelor of Science in Public Health (BSPH) degree is an academic degree that addresses the health of populations and communities through instruction, service, and community-based research. The degree is firmly grounded in a background of humanities, social science and the liberal arts. The degree fulfills Tulane University's campus-wide undergraduate core proficiency through this background while stressing an additional commitment to quantitative and scientific skills.

About Public Health

Public health addresses health at a broad level, and the impact of professional public health is felt by individuals, families, and communities. The field of public health promotes healthy lifestyles, helps to develop policies, conducts education campaigns, confronts the spread of infectious disease, conducts research to improve methods, and uses data to track and measure health status and the effectiveness of health programs.

At Tulane, Undergraduate Public Health Studies has been one of the fastest-growing programs for several years. The program educates students in the key concepts of the field, providing a firm grounding in the foundational aspects of public health. Students can tailor their electives to meet personal academic and professional goals, which may cover areas such as global health, maternal and child health, nutrition, environmental health, data science, or another public health niche. An undergraduate public health degree is also a good fit for students planning to pursue graduate work for careers in medicine, allied health professions, and some pre-law areas.

Undergraduate

Major

- Public Health, BSPH (<https://catalog.tulane.edu/public-health-tropical-medicine/undergraduate-public-health/public-health-bsph/>)

Minor

- Climate Change: Science and Practice Minor (<https://catalog.tulane.edu/newcomb-tulane/climate-change-science-and-practice-minor/>)
- Public Health Healthcare Administration Minor (<https://catalog.tulane.edu/public-health-tropical-medicine/undergraduate-public-health/public-health-healthcare-administration-minor/>)
- Public Health Minor (<https://catalog.tulane.edu/public-health-tropical-medicine/undergraduate-public-health/public-health-minor/>)
- Public Health Nutrition Minor (<https://catalog.tulane.edu/public-health-tropical-medicine/undergraduate-public-health/public-health-nutrition-minor/>)

Courses

Public Health Undergraduate (SPHU)

SPHU 1010 Intro To Public Health (3)

Students are introduced to the concepts and practice of public health in the U.S. and internationally by tracing its historical evolution. Classic public health problems and their resolution will be discussed in the context of the broader contemporary social environment. The latter part of the course is focused on public health practice in both the U.S. and developing countries, with a consideration of the structure, function, and financing of public health organizations. The many different roles for public health professionals in these organizations also are described.

SPHU 1020 Cell, Individual & Community (3)

This course provides a foundation of knowledge about the human body in health and disease. It gives an overview of important concepts on the biological mechanisms of disease at the cellular, individual, and population/ community levels. The course will focus on a natural progression in the development of health and disease, moving from a discussion of the cellular mechanisms, to manifestations in the individual, and finally, to disease effect and interventions at the community level. This course is designed to provide a firm foundation in the mechanisms of health and disease. Furthermore, each session will offer insights into current public health topics and research trends.

SPHU 1890 Service Learning (1)

Students complete a service activity in the community in conjunction with the content of a three-credit co-requisite course. Course may be repeated up to unlimited credit hours.

Maximum Hours: 99

SPHU 1891 Service Learning (0-1)

Students complete a service activity in the community in conjunction with the content of a three-credit co-requisite course. Course may be repeated up to unlimited credit hours.

Maximum Hours: 99

SPHU 1940 Transfer Coursework (0-20)

Maximum Hours: 99

SPHU 2016 Infectious Disease Outbreaks (3)

This course will introduce students to the operational pillars of infectious disease outbreaks such as clinical management, logistics, infection prevention and control, policy and regulations. Students will begin with the basic concepts of infectious diseases, dynamics of disease transmission, and emerging and reemerging infectious diseases. The course encourages a wider conversation on the implications of infectious diseases in the broader context of public health, and challenges students to think creatively about solutions for prevention and control.

SPHU 2050 Arthropods and Public Health (3)

This course provides a broad introduction to insects and other arthropods that transmit infectious pathogens, or cause problems to humans through infestation or other contact. The impact of arthropods on the history of human civilization and development will be explored, as will their use as food and in art. Arthropod utilization in forensic science and for medicinal purposes will be discussed. Throughout the course the myriad adaptations utilized by arthropods, allowing them to become the most speciose group of animals in existence, will be highlighted.

SPHU 2150 Foundations of Environmental Health (3)

This course is designed to provide students with an introduction to and overview of key areas in environmental health. Using the perspectives of the population and community, the course will cover factors associated with the development of environmental health problems. Students will gain an understanding of the interaction of individuals and communities with the environment, the potential impact on health of environmental agents, and specific application of concepts of environmental health. The course consists of lectures that cover principles derived from core environmental health disciplines. The sequence begins with background material and "tools of the trade"; agents of environmental diseases; and applications and domains of environmental health.

SPHU 2160 Biostatistics in Public Health (3)

This course provides an overview of various statistical methods used in public health practice and research. Emphasis is on application of appropriate methods and interpretation of results. Examples and problems from public health settings will be included. Various statistical software will be used to analyze data (excel, SPSS and others), but prior computing experience is not required. Topics covered include methods of summarizing data and estimation and hypothesis testing techniques, including the t-test, the chi-square test, the analysis of variance, correlation analysis, and linear regression.

SPHU 2300 Introduction to Nutrition (3)

This course is designed to provide students with an introduction to the basic principles of nutrition science and research. It is recommended for undergraduate students who have not had a prior course in nutritional science. It is designed to help students gain basic knowledge about the roles of specific nutrients, with emphasis on their sources, functions, and metabolism in the human body, basic principles of digestion and absorption. Other topics include food selection for optimal health, energy balance and weight control, dietary practices in health promotion and chronic disease prevention, nutrition throughout the lifespan, and an introduction to public health nutrition including but not limited to food safety, food supply, food insecurity, and food policy.

SPHU 2333 Introduction to Global Maternal and Child Health (3)

The course introduces undergraduate students to the complex public health problems that affect women and children in the USA and in developing countries. The course will introduce and use the socio-ecological framework and the life-course models to examine factors that determine women and children's health and disease. The foundation of the course is a comprehensive review of common health issues that affect pregnancy, children and teenagers worldwide. Programs and policy to address these issues will also be reviewed and discussed in the context of socio-ecological frameworks.

SPHU 2400 Global Health in Action (3)

This course is targeted towards students considering global health work. Using a "Best Practices" lens, students will explore how to have a meaningful, field-based global health experience, and how to incorporate their global health experience into a future career. Students will examine policy issues and other health determinants in order to understand effective strategies to respond to health challenges in a global setting. As an outcome, students will approach global health in its wider social, economic and political context. Lectures, readings from primary literature, and field-based case studies will provide the framework for discussion, analysis, and interpretation of global health in action.

SPHU 2410 Health & Women's Rights (3)

This course addresses health and women's rights around the world from health equity, gender, and ethnicity perspectives. The main topics are: women's human rights and gender equality, discrimination against women and girls; rights of LGBTI people; gender-based violence; early marriage and pregnancy; right to contraception and abortion; forced sterilizations and abortions, and virginity examinations; female genital mutilation; maternal mortality; sexual transmission of HIV; trafficking of women and girls; women's rights during complex humanitarian emergencies; migration and reproductive health; and postcolonial feminism and health. The course contextualizes and analyzes: 1) health and women's rights within their economic and political context, 2) the social inequality roots of health and women's rights issues, and 3) the main health and rights challenges faced by women and girls. It uses country case studies from around the world. It is open to all undergraduate students.

SPHU 2420 Health Challenges and Climate Change (3)

Climate change affects the very basic foundations of health - adequate and nutritious food, safe water, fresh air, and secure shelter. This course introduces the direct and indirect links between climate change and human health. Examples of health impacts related to climate change will include those arising from drought induced water and food insecurity, vector-borne and water-borne diseases, temperature extremes, wildfires, and extreme hydrological events. Underlying socio-ecological determinants that influence exposure and vulnerability will be described. The course will also explore opportunities for mitigation and adaptation to reduce the threats of climate change. Case studies of how countries are responding to the health challenges posed by climate change will be presented.

SPHU 2430 Pandemics and Public Health (3)

Pandemics have shifted social norms, devastated economies, and transformed society throughout history. This lecture and discussion-based course investigates how culture, society, politics, and the environment influence the development and control of pandemics; and describes how scientists and public health officials integrate data and information to inform public health pandemic policy. In this transdisciplinary course students will 1) learn how science, economics, communication, government response, and social tensions influence control practices and policy, using examples from the Spanish Flu, cholera, HIV, SARS-CoV-2, and the plague; and 2) provide a foundation for more specialized classes that can be applied to prevent and control future pandemics.

SPHU 2500 Principles of Professionalism in Healthcare (3)

Healthcare is an interdisciplinary field of professions with many different education, skills, and backgrounds. In Principles of Professionalism in Healthcare, students will learn about the diverse healthcare workforce and the norms, standards, and values of various disciplines within the profession. They will learn foundational concepts of healthcare delivery and career opportunities within the field. Students will take initial steps to discover their professional identity from guest lectures, class discussion, and reflection. By the end of the semester, students will understand the concepts of professions and professionalism to successfully navigate this fast-paced and growing field.

SPHU 2810 Special Topics in Public Health (1-3)

Special Topics in Public Health. Course may be repeated up to unlimited credit hours.

Maximum Hours: 99

SPHU 2890 Service Learning (1)

Students complete a service activity in the community in conjunction with the content of a three-credit co-requisite course. Course may be repeated up to unlimited credit hours.

Maximum Hours: 99

SPHU 2940 Transfer Coursework (0-20)

Maximum Hours: 99

SPHU 3010 Foundations of Health Care Systems (3)

This course introduces and examines the framework of a health care system, taking a particular look at the United States' system. The course examines the relationship between health and health care; public and private financing models; and the delivery of health care, both through public health and traditional medical care. Students will analyze issues related to the "iron triangle" of health care (i.e., cost, quality, and access) and will discuss the future of health care in the United States from a management and policy perspective.

SPHU 3011 Introduction to Occupational Health and Safety (3)

The working population continues to grow, and so is the expansion of workplaces where people spend long hours every day. Injuries, diseases, and deaths in the workplace are major public health issues. The workplace environment must be safe and healthful to support the working population. This course introduces students to the fundamentals of occupational safety and health. It examines the physical, chemical, and biological hazards and risks in the workplace environment, as well as the scientific and policy measures for improving workplace safety and health in the United States. Students are given case study exercises to enhance their understanding and application of best practices for promoting the public health in the workplace environment.

SPHU 3015 Public Health Program Implementation and Management (3)

This course develops practical skills for the design, implementation, and management of public health programs. A solid grounding in personal, financial, and organizational determinants of health and organizational effectiveness will complement the use of practical management tools and techniques such as logic model development for program design and implementation. Students will apply these concepts and tools within the context of service delivery and policy-making in the field of public health.

SPHU 3100 Environmental Pollution & Biomarkers of Health (3)

This course introduces the concept and practical issue of environmental exposure to polluted water, soil, and food that cause adverse health effects on humans. Students will learn how to apply biomarkers to determine the magnitude of exposure and health associated with toxic chemicals (metals and trace elements). The use of biomarkers in other health issues related to climate change and occupational environment (such as in mining and farm workers) will be also discussed. Students work collaboratively on exposure, biomarkers, and health data assessment to draw relevant information and communicate to public health policy and practice. The course consists of lectures, article reading, discussion, quizzes, and problem sets.

SPHU 3110 Social and Behavioral Perspectives in Public Health (3)

Students integrate their understanding of public health science in this applied problem-solving course that brings together the social science-based theories and models with techniques of seeking community input. Students go beyond the initial results of data to seek explanations for public health problems using a social ecological framework and public health behavioral theories. This course demonstrates the value of anchoring program planning in the social and behavioral sciences, which lays the groundwork for strong program implementation and evaluations.

Prerequisite(s): SPHU 1010.

SPHU 3120 Issues & Strategies in Public Health (3)

This seminar-style course is designed to provide students with basic biological and social concepts, control practices, and policies underlying the epidemiology of diseases of global importance. This course investigates how culture, society and the environment influence disease transmission, risk factors, disease prevention and health status. The course will be transdisciplinary, emphasizing the connections between the biological nature of disease and the social, economic and political context that influences prevention and control practices. Examples of health topics that may be addressed are malaria, neglected tropical diseases, diabetes, and vaccine preventable diseases.

SPHU 3170 Foundations of Epidemiology (3)

This course is designed to give students a general introduction to epidemiological concepts and basic tools of the field. The historic and current contributions made through the use of epidemiology in shaping our understanding of disease in populations will be described and investigated. The course will assist the student in establishing a foundation for the definition of and response to public health challenges in the community as well as the global society. The course will introduce a number of areas of specialization within the field of epidemiology including infectious and non-infectious diseases and other health issues.

SPHU 3200 Nutrition & Chronic Disease (3)

This course will provide students the opportunity to explore the complex relationships between diet, obesity and chronic disease outcomes particularly cardiovascular disease and cancer. The emphasis of the course will be using evidence-based approaches to investigate relationships between diet and disease. We will review research from experts in areas related to nutrition. The course will focus on the causal pathway from diet and inactivity to obesity to negative chronic outcomes with overnutrition being the pivotal mechanism to disease. Students will explore current diet trends and learn practical skills around making food choices in addition to examining the current research on diet factors associated with chronic disease.

Prerequisite(s): SPHU 3170.

SPHU 3330 Disasters & Environmental Health (3)

This course focuses on the complex intersection of population health and disasters through the lens of environmental health. Students will examine the impacts that disasters (natural and technological) have on environmental and human health, along with influences attributed to climate change. Case studies will be incorporated as a didactic and learning element of the course to highlight critical environmental health challenges, overall population health concerns, and associated impacts imposed by disasters.

SPHU 3350 Lifecycle Nutrition (3)

This course is designed to build on the basic principles of nutrition and explores nutrition through each major life stage including, but not limited to, pre-pregnancy, pregnancy, infancy, early childhood, childhood, adolescence/teenage years, adulthood, and older adulthood. During this course, students will apply basic nutrition knowledge to evaluate the rationale for nutritional needs of normal growth and development, eating habits, and dietary cautions for each life stage. Consequences of under- or over-nutrition at critical life stages and policies, programs, and interventions that have been implemented to address these consequences will also be examined. The role of the social determinants of health and other lifestyle factors in meeting suggested nutritional requirements and guidelines at various life stages will also be discussed.

Prerequisite(s): SPHU 2300.

SPHU 3360 Public Health Nutrition: Principles to Practice (3)

This course comprehensively explores the intersection between nutrition and public health. It introduces students to the science of nutrition and dietetic practice within community and public health settings, including skill sets and scope of practice found within public health nutrition. Through a structural, social-determinants lens, this course emphasizes the role of nutrition in disease prevention, health promotion, and overall well-being, considering existing and potential health inequities. Students will delve into multidisciplinary aspects of public health nutrition, such as program development and intervention, epidemiology, policy, assessment, and behavior change. Public health nutrition concepts and practices will be discussed in the context of individuals, communities, and populations, and public health nutrition programs and services in the US and globally will be highlighted.

Prerequisite(s): SPHU 2300.

SPHU 3500 Public Health Approach to Sexual Violence (3)

This course provides an in-depth examination of sexual violence from a public health perspective. Theories of sexual violence, the epidemiology of sexual violence (scope, causes, risk factors, and consequences), and public health approaches to reducing sexual violence will be covered.

SPHU 3560 Biological Basis of Disease (3)

Biological basis of disease provides a foundation of knowledge about the human body in health and disease. The focus of the course is on the biological mechanisms of disease with an emphasis on molecular, cellular, genetic, and immunological aspects. The etiology and pathophysiology of the most important infectious and non-infectious diseases in terms of prevalence and mortality are thoroughly discussed. Applications of genomics and other biotechnologies to health and disease, as well as its treatment and prevention, are also covered. Intermediate and advanced students in public health, pre-medicine, or other biomedical fields may find this course particularly useful. Many students find this course beneficial in preparing to take the MCAT, PCAT, or DAT.

Prerequisite(s): CELL 1010 or SPHU 1020.

SPHU 3570 Introductory Microbiology (3)

This course is an introduction to the biology of bacteria, protists, fungi, and viruses, their structure, life cycles, geochemical activities, diversity, and nutrition. We will also cover fundamentals of metabolism, genetics and genomics, microbial biotechnology, roles in health, disease and human immunological responses. This course is meant for students with fundamental understanding of general biology, molecular biology, and organic chemistry.

SPHU 3600 Women's Reproduction & Obstetric Health (3)

This course is geared toward public health undergraduate students with a strong interest in women and maternal health. The course has two distinct objectives. The first objective is to provide an overview of the pathophysiology of the female reproductive system and a survey of the complications of pregnancy, labor and delivery. The second objective is to explore medical and lay practices related to women gynecological and obstetric health, in USA and worldwide. Existing scientific evidences associated with these practices will be examined, along with ways to reconcile medical authoritative knowledge and women's autonomy.

SPHU 3810 Special Topics in Public Health (0-3)

Special Topics in Public Health. Course may be repeated up to unlimited credit hours.

Maximum Hours: 99

SPHU 3890 Service Learning (0-1)

Students complete a service activity in the community in conjunction with the content of a three-credit co-requisite course. Course may be repeated up to unlimited credit hours.

Maximum Hours: 99

SPHU 3891 Service Learning (0-1)

Students complete a service activity in the community in conjunction with the content of a three-credit co-requisite course. Course may be repeated up to unlimited credit hours.

Corequisite(s): SPHU 3011.

Maximum Hours: 99

SPHU 3910 Special Topics (3)

Special Topics course

Maximum Hours: 99

SPHU 3920 Special Topics (3)

Special Topics course

Maximum Hours: 99**SPHU 3940 Transfer Coursework (0-20)****Maximum Hours:** 99**SPHU 4010 Formulation of Public Health Policy (3)**

An overview of the roles and responsibilities of public health government, nongovernment agencies, private organizations, health services, and health systems in promoting health. An overview of the influence of policies, laws, regulations, and legislation on both individual and population health. The course will include both historic and modern case studies of existing and emerging public health issues at the local, national, and global level.

Prerequisite(s): SPHU 1010.**SPHU 4160 Introduction to Statistical Packages (3)**

This course covers the elementary concepts and applications for managing and analyzing data using the Statistical Analysis System (SAS) and Stata statistical packages. The concepts covered are applicable to virtually all academic and professional settings. Each lecture begins with a presentation to introduce fundamental mapping concepts and is complemented with hands-on exercises to reinforce technical application. The first part of the course covers SAS applications, and the analog concepts for Stata are covered in the second part of the course.

Prerequisite(s): SPHU 2160.**SPHU 4180 Introduction to Qualitative Methods (3)**

Qualitative data can be a valuable source of information for public health programs. This course is an applied learning experience to equip public health students with skills in qualitative research. Course lectures, readings, and activities are linked to a project with a public health organization in New Orleans. Students learn principles of qualitative research, how to collect, organize, and store textual data using NVIVO software, and approaches to textual data analysis and presentation.

SPHU 4200 Evidence Based Public Health (3)

This course introduces the student to the scientific, epidemiological, organizational and management skills needed in designing and obtaining funding for an evidence-based public health intervention within an organizational or community setting. Students become familiar with the role and operation of not-for-profit organizations, foundations, national and international government agencies, and the local community in this process. Students learn to access publicly available and electronic information provided by these agencies and organizations. The course illustrates how evidence-based public health is used by funding agencies in developing and awarding grants and by public health providers and community contractors in applying for and receiving them. Emphasis is placed on how evidence-based public health is used in writing grant proposals and students have an opportunity to write a grant proposal as part of the course.

Prerequisite(s): SPHU 1010.**SPHU 4210 Health & Environmental Risk (3)**

This course covers the basic concepts of environmental health risk assessment. The National Academy of Sciences model framework for chemical risk assessment (hazard identification, dose response assessment, exposure analysis, and risk characterization) is used throughout the course. An introduction to toxicology and the rationale for risk assessment used by federal agencies will be discussed. Case studies on contemporary environmental pollutants, personal care products, etc., will be covered in the course.

Prerequisite(s): SPHU 2150.**SPHU 4220 Latino Health in the US (3)**

Addressing the health needs of Latinos in socially and culturally appropriate ways is critically important for creating an inclusive, cost-effective health care system and a more equitable society. Effective public health policies, interventions and population-based preventive programs are important tools for promoting healthy behaviors and reducing risk factors for adverse health outcomes in this vulnerable population. The goal of this course is to strengthen student's knowledge and understanding of Latinos in the United States and the health problems affecting them at the individual, community, and population level. Students will explore successful policies and public health interventions targeting those populations.

Prerequisite(s): SPHU 3110*.

* May be taken concurrently.

SPHU 4240 Epidemiology of Sexually Transmitted Infections (3)

This course is designed to provide students with the skills to conduct epidemiologic research in HIV and other sexually acquired infections. The first part of the course, we discuss the etiology, treatment, epidemiology and common prevention methods for the most common and/or most serious STIs. In the second part of the course, we will cover the methodological issues of surveillance, study design in the context of clinical and behavioral research. Ethical aspects of conducting research in HIV/STI are also discussed. Students will have hands on practice examining methodological issues by completing four exercises. Finally, we put STIs into context by discussing social, economic and political ramifications of these infections in the world by reviewing two books and one movie that illustrate these concepts.

Prerequisite(s): SPUH 3170.

SPHU 4260 Organizational Leadership and Management in Public Health (3)

Organizational Leadership and Management in Public Health is a interdisciplinary course that examines the complex challenges inherent in leading and managing organizations in the public health sphere, including public and private settings. Students will explore leadership and management principles in the current environment through the analysis of case studies and current events. In-class activities will expose students to diverse perspectives and challenges of leadership and decision-making.

SPHU 4300 Public Health Communication (3)

This course examines the intended and unintended effects of health communication, with specific focus on how the mass media and the Internet stimulate change in knowledge, attitudes, behavior, and subsequent health outcomes. Three health communication foci will be explored: 1) planned communication campaigns designed specifically to elicit health behavioral change, 2) traditional mass media's role in influencing health outcomes, and 3) the evolving influence of the Internet on health outcomes. This course examines the linkages between communication effects and various health topics, including smoking/alcohol, sex, diet, and physical activity. By the end of the course, students will understand the theoretical and practical aspects of the linkage between communication and public health and be able to apply such to public health initiatives.

Prerequisite(s): SPUH 1010.

SPHU 4310 Nutrition Education and Communication (3)

This course prepares the future public health nutrition professional with the necessary skills and strategies to provide nutrition education to and communicate with individuals, communities, and populations. While considering cultural differences, root causes of health inequities, and differences in health literacy levels, this course will explore evidence-based principles, strategies, and methods used in nutrition education and communication. During this course, students will analyze different communication techniques and the utilization of various platforms to disseminate accurate nutritional information. A strong focus of this course is on developing skills in designing educational programs, creating materials, and employing communication strategies to promote healthy eating behaviors and improve nutritional outcomes. Students will practice individual counseling approaches, participate in social media, and engage with and critique nutrition information delivered through mass media.

Prerequisite(s): SPUH 2300 and 3360*.

* May be taken concurrently.

SPHU 4330 Resilience in International Disasters (3)

This course addresses the field of disaster and international humanitarian studies, trends and recent developments in the field, and strategies to reduce disaster risk. It builds basic concepts and tools that will prepare students to understand humanitarian issues for disaster management. Students will learn to articulate concepts about disasters and the changing patterns of disasters, disaster resilience and international humanitarian response. They will develop a broad view of the key organizations involved in and components of the international humanitarian response system. The course methodology includes case studies of major disasters including the Haiti earthquake of 2010, Hurricane Katrina, the current crisis in Syria, famines in the Horn of Africa, Sahel, Southern Africa and the 2004 Asian Tsunami. Students will gain hands-on experience in computing indicators used to determine the effects of disasters on public health. Guest lecturers from the Centers for Disease Control will participate through tele video-conferencing.

SPHU 4340 Public Health Genomics (3)

This course is designed to prepare public health students for the study of human health in a post-genome era. Students will learn the molecular basics and the complex issues involved in applying and integrating genomic technology and information into public health. The students will be able to discuss the ethical, legal, and social implications of genomics on public health.

SPHU 4350 Zoonotic Infections (3)

This course provides a foundation of knowledge on the public health consequences of infections originating in vertebrate animals that cross over to humans with or without disease. Topics include: the consequences of animal-transmitted infections on the emergence of new human diseases; adaptation process of animal infections transitioning from animal microbes to become human microbes; human activities, occupational exposures, and medical practices that enable microbial transitions. Students will present reports and follow zoonotic disease outbreaks in real time.

Prerequisite(s): SPUH 1020.

SPHU 4410 Data and Information Management in Public Health (3)

This course provides students with a full introduction to data and information management. The topics include tools for collecting data, database concepts, data-entry techniques, queries of databases, data sharing, data reporting, and database design. Hands-on exercises are mainly practiced on MS Access. Having taken the course, students will be able to perform basic database functions to clean, collect, sort, share, retrieve, report, and alter data.

SPHU 4540 Capstone Senior Seminar (3)

This seminar is designed for public health students in their senior year. The course fulfills the Public Health capstone requirement. The class sessions will facilitate individual growth and career development through a series of guest lecture presentations, reflection essays, and the development of a professional public health portfolio.

SPHU 4550 Capstone Independent Study (3)

Working one-on-one with a faculty member, the student will complete a high-level research paper. Students should seek out a sponsoring faculty mentor and speak to the program manager to register for credit.

SPHU 4560 Capstone Internship (3)

This seminar is designed for students doing a public service internship during the spring. The seminar offers students an opportunity to discuss and explore issues related to their internship experience including the topics of service, service-learning in higher education, and civic engagement. Finally, the seminar is meant to compliment the public service internship experience in facilitating individual growth and career development.

Maximum Hours: 99

SPHU 4570 Internship (3)

Public Health Internship. Course may be repeated up to unlimited credit hours.

Maximum Hours: 99

SPHU 4580 Capstone International Program (3)

Tulane's Office of Study Abroad works with international programs that provide academic research or internship projects, which can count as a public health Capstone. To complete this type of Capstone, the experience needs to be approved by the department program staff.

SPHU 4810 Special Topics in Public Health (1-3)

Special Topics in Public Health. Course may be repeated up to unlimited credit hours.

Prerequisite(s): SPHU 1010 and 1020.

Maximum Hours: 99

SPHU 4890 Service Learning (0-1)

Students complete a service activity in the community in conjunction with the content of a three-credit co-requisite course. Course may be repeated up to unlimited credit hours.

Maximum Hours: 99

SPHU 4892 Service Learning (0-1)

Students complete a service activity in the community in conjunction with the content of a three-credit co-requisite course. Course may be repeated up to unlimited credit hours.

Maximum Hours: 99

SPHU 4910 Independent Study (1-3)

The student will work closely with a faculty member from the department of Environmental Health Sciences. The student and faculty member will craft a research topic together. Students should consult their advisor for assistance. Course may be repeated up to unlimited credit hours.

Maximum Hours: 99

SPHU 4920 Independent Study (1-3)

The student will work closely with a faculty member from the department of Environmental Health Sciences. The student and faculty member will craft a research topic together. Students should consult their advisor for assistance.

SPHU 4990 Honors Thesis (3)

For especially qualified seniors with approval of the faculty director. Students are generally expected to have a minimum of a 3.400 overall grade-point average and a 3.500 grade-point average in the major.

SPHU 5000 Honors Thesis (4)

For especially qualified seniors with approval of the faculty director. Students are generally expected to have a minimum of a 3.400 overall grade-point average and a 3.500 grade-point average in the major.

Prerequisite(s): SPUH 4990.

SPHU 5380 Junior Year Abroad (1-20)

Junior Year Abroad. Course may be repeated up to unlimited credit hours.

Maximum Hours: 99

SPHU 5390 Junior Year Abroad (1-20)

Junior Year Abroad. Course may be repeated up to unlimited credit hours.

Maximum Hours: 99