

HSC: Health Sciences Courses

Courses

HSC 2100 Personal Health

College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)

Provides information on personal health issues from which students may base current and future decisions regarding their health and wellness. To promote an environment where effective decision making skills can be acquired through structured group interaction.

HSC 2622 Introduction to Global Health Sciences

College of Health, Department of Health Sciences & Admin
3 sh (may not be repeated for credit)

This health sciences course considers the influence of factors such as access to healthcare, biology, infectious diseases, societal status, culture, the environment, and the management of healthcare resources, on the well-being of people around the globe. Students will integrate ideas from different disciplines to identify problems affecting society in the international context. Meets Multicultural Requirement.

HSC 3032 Foundations in Health Education

College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)

This course explores the philosophy and principles that provide the foundations of health education as an academic discipline and as a profession. Course emphasis will focus on health education settings, ethical issues, current issues, marketing, planning and future outlook in the field.

HSC 3034 Career Essentials for Healthcare

College of Health, Department of Health Sciences & Admin
3 sh (may not be repeated for credit)

This course provides an overview of the field of health sciences and introduces students to essential skills required for career success in various healthcare professions. Content will also cover important issues facing today's healthcare environment.

HSC 3102 Health Science Essentials of Behavior Analysis

College of Health, Department of Health Sciences & Admin
3 sh (may not be repeated for credit)

This course provides content for students interested in an advanced career path in the field of behavior analysis and is the first in a series of courses designed to meet the curriculum requirements to become a Board Certified assistant Behavior Analyst (BCaBA) or a Qualified Autism Service Practitioner-Supervisor (QASP-S). Content in the course serves as a basic introduction to behavior analytic principles, definitions, characteristics, processes, and concepts, measurement, assessment, and behavior change procedures. This course is designed to provide all of the curriculum requirements necessary to become a BACB Registered Behavior Technician (RBT) or a QABA Applied Behavior Analysis Technician (ABAT), with employment opportunities in the field of healthcare after course completion. The content is based on the Behavior Analyst Certification Board (BACB) 5th Edition Task List, the Registered Behavior Technician 2nd Edition Task List, and the ABAT and QASP-S certifications from the QABA. The course is offered independent of the BACB and QABA.

HSC 3114 Problem Identification and Functional Assessment in Health Science

College of Health, Department of Health Sciences & Admin
3 sh (may not be repeated for credit)
Prerequisite: HSC 3102

This course provides an in depth analysis of behavior analytic principles, definitions, characteristics, processes, concepts, and assessment. Students learn the knowledge and skills to conduct meaningful functional assessments in multiple applications within the health context from leadership and management to individual clinical practice. This course is the second in a series of courses designed to meet the curriculum requirements to become a Board Certified Assistant Behavior Analyst (BCaBA) or a Qualified Autism Service Practitioner-Supervisor. The content is based on the Behavior Analyst Certification Board (BACB) Task List and consists of (5) hours of BACB Ethics Code for Behavior Analysts, (5) hours of philosophical underpinnings, (5) hours of measurement, data display and interpretation, and (30) hours of assessment. The content is also based on the QABA QASP-S Standard and consists of (5) hours of QABA Code of ethics, (5) hours of data collection and analysis, (5) hours of core principles, and (30) hours of assessment. This course is offered independently of the BACB and QABA. A final grade of 82% (B) is the minimum passing score for the course prerequisites.

HSC 3147 Pharmacology for Health Professionals

College of Health, Department of Health Sciences & Admin
3 sh (may not be repeated for credit)

This course will focus on the general principles of drug action and pharmacology of therapeutic agents. The general principles of pharmacology, including drug absorption, distribution and metabolism along with receptor theory will be covered. The course will also focus on mechanism of action of specific drug classes and their effective use in different diseases.

HSC 3406C Advanced First Aid and Emergency Care

College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)

Study and practice of standard first aid procedures which are essential for survival in emergency and disastrous situations. Cardiopulmonary resuscitation method will be included. Red Cross certification will be available to students who meet current standards. Material and supply fee will be assessed.

HSC 3510 Data Analysis in the Health Sciences

College of Health, Department of Public Health

3 sh (may not be repeated for credit)

Prerequisite: STA 2023

This course focuses on the application of computer technology and software in conducting analysis of data, including how to retrieve, clean, organize, and analyze data using computational methods, as well as report findings using existing general purpose software. Additionally, students will acquire skills in data presentation through using tables, charts, and written reports. All students must complete STA 2023 or equivalent prior to taking HSC 3510.

HSC 3535 Medical Terminology

College of Health, Department of Health Sciences & Admin

3 sh (may not be repeated for credit)

This course is designed to familiarize students with the vocabulary used in the medical and health professions. Students will employ a systematic, word-building approach to master the complex terminology of the medical field. An emphasis is placed on word dissection of compound medical terms and inferring word meanings from their prefixes, suffixes, and stem words. Credit may not be received in both HSC 3535 and HSC 3534.

HSC 3555 Pathophysiology

College of Sci and Engineering, Department of Biology

3 sh (may not be repeated for credit)

Prerequisite: (BSC 1085 AND BSC 1086) OR PCB 3097L OR PCB 4098 OR PCB 4703

Disease as an abnormal biological process. Selected physiological processes and basic concepts of body response to pathology will be explored. Approach appropriate to students of nursing, allied health, medicine, and biology. Recommended prerequisite; one course in anatomy and physiology.

HSC 3905 Directed Study

College of Health, Department of Movement Sciences and Health

1-12 sh (may be repeated indefinitely for credit)

HSC 3991 Special Topics Course

College of Health, Department of Health Sciences & Admin

1-12 sh (may be repeated indefinitely for credit)

HSC 3992 Special Topics Course

College of Health, Department of Health Sciences & Admin

0-12 sh (may be repeated indefinitely for credit)

HSC 3993 Special Topics Course

College of Health, Department of Health Sciences & Admin

1-12 sh (may be repeated indefinitely for credit)

HSC 4050 Health Sciences Capstone Course

College of Health, Department of Health Sciences & Admin

3 sh (may not be repeated for credit)

This capstone course will focus on contemporary research in the health sciences. The course will cover topics such as the scientific method, research study designs, critical evaluation of the literature, technical writing, research ethics, data collection, and analysis. As part of an ongoing semester project, students will design a research proposal on a specific topic in health. A capstone exam will be given.

HSC 4104 Health Aspects of Stress Management

College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)

A study of physiological, psychological, and sociological aspects of stress as related to overall health. Anger, fear, and depression and their underlying mechanisms related to the stress response on health and disease will be examined. Emphasis is on identification of stressors, methods of prevention and coping strategies. Group activities and individual assignments provide opportunities for personal analysis.

HSC 4143 Drugs in Society

College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)

Provides students with knowledge of the use and abuse of drugs in American contemporary society. Emphasis on the physiological, psychological, and sociological effects of drug use and abuse on personal and community health. Concepts of prevention, education and control will be covered. Material and Supply Fee will be assessed.

HSC 4211 Human Environmental Health

College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)

This course will provide an overview of major environmental issues facing society at the dawn of the 21st century. Ecological concerns will be matched with specific elements related to personal and community health, emphasizing the interrelatedness of the two and conveying an awareness of how current environmental issues directly affect everyday life.

HSC 4300 Changing Health Behaviors

College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)

This course is designed to acquaint students with a general theory of behavior, guide them through exercises for developing skills in self-analysis, and provide information on how to achieve individual behavior change goals. Students will learn techniques for developing community-based health behavior change programs and employ coping skills for personal problem solving.

HSC 4404 Medical Disaster Management

College of Health, Department of Health Sciences & Admin

3 sh (may not be repeated for credit)

This course investigates how medical disasters are managed, focusing on predisaster mitigation, disaster relief operations, and postdisaster rehabilitation. Contemporary and historic disasters are used as case studies to develop the critical thinking skills needed by healthcare professionals to respond to these events.

HSC 4500 Epidemiology

College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)

A study of the factors determining and influencing the frequency, distribution, and causes of diseases and other events that impact the health and safety of the human population. Programs and strategies to prevent and control such events and diseases will be explored.

HSC 4502 Principles of Human Disease

College of Health, Department of Health Sciences & Admin

3 sh (may not be repeated for credit)

Prerequisite: PCB 4703 OR (BSC 1085 AND BSC 1086) OR (BSC 2085 AND BSC 2086) OR PCB 4098

The course introduces students to the mechanisms of human disease, disease etiology, symptoms, diagnosis, treatments, prognosis and epidemiology. Diseases and disorders of each of the body's systems will be covered. Special attention will be paid to disease prevention.

HSC 4551 Communicable and Degenerative Diseases

College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)

Designed to explore the basic concepts and principles of the disease process including history and classification. Emphasis will be upon etiology, origin, symptoms, treatments, prevention, host, agent, and environmental factors affecting occurrence, prevention, and control. Offered concurrently with HSC 5552; graduate students will be assigned additional work. Junior / Senior status required.

HSC 4572 Nutrition and Health

College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)

This course is a study of nutritional sciences and the integration of the effects of nutrients on metabolic and physiological functions at the cellular, tissue, organ, and system levels in humans as related to health and disease. The course examines the scientific basis for nutrition reference standards and guidelines; food supply and food security; factors involved in energy balance and in the regulation of energy intake; dietary manipulation of macronutrients and its impact on energy metabolism; physical activity; sports nutrition; and functional nutrition approach when covering vitamins and minerals and their roles in nutrition and health. The course builds on prior studies in nutrition science, and the understanding of human anatomy and physiology, biology, and/or biochemistry principles and designed for students in health profession majors.

HSC 4580 Functional Applications of Applied Behavior Analysis in Health Science

College of Health, Department of Health Sciences & Admin

3 sh (may not be repeated for credit)

Prerequisite: HSC 3102 AND HSC 3114 AND HSC 4720

Building on the basic concepts of behavior analysis, functional assessment, and systematic measurement, this course serves as an overview of functional applications of behavior change procedures in health contexts from leadership and management to individual clinical and therapeutic practice. This course is the fourth in a series designed to provide students with the necessary knowledge to be eligible for a career as a Board Certified assistant Behavior Analyst (BACB) or a Qualified Autism Service Practitioner-Supervisor (QUASP-S). The content is based on the Behavior Analyst Certification Board (BACB) Task List and consists of (45) hours of behavior change procedures. The content is also based on the Qualified Applied Behavior Analysis Credentialing Board (QABA) QASP-S standard and consists of (45) hours of antecedent interventions, skill acquisition programming, and behavior reduction interventions. This course is offered independently of the BACB and QABA. A final grade of 82% (B) is the minimum passing score for the course prerequisites.

HSC 4581 Health Promotion and Planning

College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)

This course provides an overview of practical application of theory, models, principles, and practices of health promotion, planning, and implementation. Students will create a health promotion program, develop and administer a needs assessment, apply a behavioral and environmental assessment, write goals and measurable objectives, market the program, and evaluate the program.

HSC 4583 Theoretical Foundations of Health Promotion and Planning

College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)

A comprehensive overview and analysis of theory, models, principles, and practices of health education and promotion planning and implementation. Topics for discussion include health promotion and a framework for planning, social assessment and participatory planning, epidemiological assessment, behavioral and environmental assessment, educational and ecological assessment, administrative and policy assessment, evaluation and applications in community, occupational, school, and health care settings.

HSC 4584 Health Promotion Strategies and Funding

College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)

This course will explore, develop, analyze, and apply strategies to promote health in communities. Emphasis will be placed on community organization, coalition building, curriculum development, communication theory and technology, social marketing, mass media and ecological models. Students will conduct critical analysis of interventions that implement each strategy through systematic analysis of public health literature. Grant funding strategies will be addressed.

HSC 4633 Current Issues in Health Promotion

College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)

A study of current and emerging health issues affecting communities on a local and global level. Health promotion programs, approaches, and measures will be examined. Emphasis will be placed on environment, health care, behavioral health, lifestyle factors, social determinants of health, and communicable diseases. This course is designed to provide a comprehensive overview of fundamental research tools, methods, and concepts for assessing health promotion issues.

HSC 4654 Ethical Considerations in Analysis of Behavior in Health Science

College of Health, Department of Health Sciences & Admin

1 sh (may not be repeated for credit)

Prerequisite: HSC 3102

This course provides students with the necessary knowledge to be eligible for a career as a BCaBA in the field of health. Building on the basic concepts of behavior analysis, this course further develops knowledge of practice by considering ethical aspects of decision making in practice, current law and policy, and advocacy. The emphasis of this course is on the ethical application of behavior analysis in context. The content is based on the Behavior Analysis Certification Board (BACB) Task List and the Qualified Applied Behavior Analysis Credentialing Board Competency Standards.

HSC 4658 End-of-Life Ethics

College of Health, Department of Health Sciences & Admin

3 sh (may not be repeated for credit)

Explore the complex ethical issues surrounding end-of-life care in the healthcare field. This course delves into critical topics such as withholding and withdrawing treatments, palliative sedation, assisted suicide, hospice care, and cultural/religious considerations. Through case studies, discussions, and analysis, you will gain a deep understanding of the moral dilemmas faced by healthcare professionals in these challenging situations.

HSC 4720 Methodology in Applied Behavior Analysis in Health Science

College of Health, Department of Health Sciences & Admin

3 sh (may not be repeated for credit)

Prerequisite: HSC 3102 AND HSC 3114

This course further develops knowledge of measurement, experimental design, and ethics. Students learn the knowledge and skills to precisely observe, measure, and design basic assessments and evaluations in multiple applications within the health context from leadership and management to individual clinical practice. The emphasis of this course is on the ethical application of behavior analysis in context. This course is the third in a series designed to provide students with the necessary knowledge to be eligible for a career as a Board Certified assistant Behavior Analyst (BCaBA) or a Qualified Autism Service Practitioner-Supervisor (QASP-S) building on the basic concepts of behavior analysis. The content is based on the Behavior Analyst Certification Board (BACB) Task List and consists of (10) hours of Philosophical Underpinnings, (10) hours of measurement, data display, and interpretation/experimental design, (5) hours of BACB Ethics Code, (10) hours behavior change procedures; selecting and implementing interventions and, (10) hours of personnel supervision and management. The content is also based on the Qualified Applied Behavior Analysis Credentialing Board (QABA) QASP-S Standard and consists of (5) hours QABA Code of ethics, (10) hours core principles, (10) hours of data collection and analysis, and (10) hours of antecedent interventions, skill acquisition programming, and behavior reduction interventions, and (10) hours training and supervision. This course is offered independently of the BACB and QABA. A final grade of 82% (B) is the minimum passing score for the course prerequisites.

HSC 4730 Research Methods and Evaluation in Health Promotion

College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)

A comprehensive analysis and application of research methods and evaluation for health education and promotion practices. Students will establish or advance their understanding of research and evaluation in health promotion through critical exploration of terminology, ethical considerations, and methodology. Quantitative, qualitative, and mixed research methods will be explored and applied. Students will be provided with opportunities for practical application of evaluation design and implementation. Data will be analyzed, interpreted, and presented paralleling current health promotion professional practices.

HSC 4905 Directed Study

College of Health, Department of Health Sciences & Admin

1-12 sh (may be repeated indefinitely for credit)

HSC 4910 Senior Capstone Experience in Health Promotion

College of Health, Department of Movement Sciences and Health

3-6 sh (may be repeated for up to 6 sh of credit)

Prerequisite: HSC 4581

This capstone experience for Health Promotion majors provides opportunities for students to put theory into practice through active participation and class participation. Students are supervised by practitioners in health promotion. Departmental permission will be required.

HSC 4936 Accelerated Topics in Behavior Analysis in Health Science

College of Health, Department of Health Sciences & Admin

2 sh (may not be repeated for credit)

Prerequisite: HSC 3102 AND HSC 3114 AND HSC 4720

This course is part of a series designed to provide students with the necessary knowledge to be eligible for a career as a Board Certified Assistant Behavior Analyst in the field of health. This course utilizes previous knowledge of behavior analysis and synthesizes key components into a comprehensive application of expertise regarding measurement, assessment, and behavior change procedures. The content is based on the Behavior Analyst Certification Board (BACB) Task List and the Qualified Applied Behavior Analysis Credentialing Board (QABA) Competency Standards.

HSC 4991 Special Topics Course

College of Health, Department of Health Sciences & Admin

1-12 sh (may be repeated indefinitely for credit)

HSC 4992 Special Topics Course

College of Health, Department of Health Sciences & Admin

1-12 sh (may be repeated indefinitely for credit)

HSC 5205 Public Health Preparedness

College of Health, Department of Public Health

3 sh (may not be repeated for credit)

This course introduces types of disasters, the National Incident Management System, the Incident Command System, and the five steps of emergency management - prevention, mitigation, preparedness, response, and recovery. Students will learn about the structure and organization of medical disaster response, exercises, emergency communication, rapid health assessment, surveillance, and triage. Additionally, students will be introduced to the public health role in responding to chemical, biological, disease, radiological, nuclear, and explosive incidents. Students will also examine social/mental health, environmental services, ethical, and legal issues in disasters. Finally, this course introduces evaluation methods for assessing medical and public health responses.

HSC 5905 Directed Study

College of Health, Department of Health Sciences & Admin

1-12 sh (may be repeated indefinitely for credit)

HSC 6037 Philosophical Foundations of Health Education

College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)

High-order philosophical, ethical, and theoretical foundations of the professional practice of health education are explored. Students will be expected to develop their own philosophical, ethical and theoretical approach(es) to the field after becoming familiar with the peer-reviewed literature related to the health education.

HSC 6135 Health Literacy and Cultural Competency

College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)

The course examines the roles of health educators, public health professionals, health administrators, and other health professionals in providing culturally competent guidance and programming to consumers of health services. The course provides insight into the history of healthcare, examination of the role of culture in health and healing, health literacy, current issues, and challenges facing healthcare in contemporary society. Students will be challenged to integrate research and theory of health literacy principles as they apply concepts related to health communications and cultural competency.

HSC 6226 Current Issues in Worksite Wellness

College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)

Foundational course for developing, implementing, and evaluating Worksite Health Promotion (WHP) programs. Current issues related to worksite wellness and health promotion will be discussed and reviewed in detail. Topics include: history of WHP; the health/productivity/cost link; and WHP program framework. Worksite employee issues will be explored including: employee health needs, employee health interests, employee health interests, and accessing employee data. Worksite program goals, policy, implementation, participation generation, and evaluation will be analyzed. Management hierarchy and organizational values will be assessed in relation to building a healthy worksite environment. Funding and resource considerations will be evaluated.

HSC 6528 Prevention of Infectious Diseases

College of Health, Department of Public Health

3 sh (may not be repeated for credit)

An overview graduate level course of the methods and strategies for the prevention and control of infectious diseases within a population setting and the application of these tools in public health programs to achieve an epidemiologic impact on disease reduction, elimination or eradication. Methods covered in the course are those applied to population settings and address both vaccine and non-vaccine preventable diseases of public health significance.

HSC 6587 Health Education Program Planning and Evaluation

College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)

This course is designed to prepare the graduate student with the theoretical and practical perspectives of health program planning and evaluation. Emphasis will be placed on the major components of program planning models; needs assessment; priority setting; program goals and objectives; program implementation and evaluation; and budgeting. Additional topics include: ethical issues related to health program planning; multicultural literacy; and grant writing. Graduate standing or permission from Health Education faculty for non-graduate students is required.

HSC 6667 Social Marketing in Health Education

College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)

Provides students with an understanding of social marketing definitions, theory, and techniques. Social marketing systematically applies consumer marketing tools to achieve a consumer oriented approach to health promotion programming. Students will learn how to segment, reach, and influence target audiences while examining issues such as product planning, pricing, communication, distribution, and market research. As part of this course, students will apply marketing principles to design program messages and materials for behavior change initiatives.

HSC 6905 Directed Study

College of Health, Department of Movement Sciences and Health

1-12 sh (may be repeated indefinitely for credit)