

HEALTH SCIENCES (HSC)

HSC 0003 Basic Healthcare Worker

Clock Hours: 90

Lab Fee: Yes

This is the basic pre-clinical course of theory and student laboratory practice for students in the Patient Care Assistant program (includes Articulated Nursing Assistant, Advanced Home Health Aide, and Patient Care Assistant) or Practical Nursing program. Instructional content includes, but is not limited to, basic anatomy and physiology, healthcare delivery system, communication, legal and ethical issues, concepts of wellness and disease, infection control, safety, CPR, basic math and science, and computers in healthcare. This course meets the Florida Department of Education curriculum for entry-level healthcare providers.

HSC 1100 Foundations for Healthy Living

Credit Hours: 3

This course covers the foundations of health and promotes personal health literacy and identification of personal health needs, issues, and problems. Students will develop goals, plan and implement a course of action, and assess whether personal goals are met. Health literacy includes identification and use of valid information to develop knowledge and potential; effective communication; responsibility for health needs, issues, and problems; goal achievement; and societal function. Students will be taught to deal with the physical, mental, and social stresses of daily life. Topics include nutrition, mental health, reproduction, diseases pertinent to today's lifestyle, and alcohol and drug education.

HSC 1149 Principles of Analgesic and Anesthetic Pharmacology

Credit Hours: 1

Prerequisites: ATE 1742, HSC 1531, or HSC 1532 with a grade of "C" or higher

This course studies basic pharmacological substances used in Health Sciences. Students will become familiar with the primary pharmacology and pharmacokinetics of various medications used within the health profession with a special focus on anesthetics and analgesics.

HSC 1531 Medical Terminology

Credit Hours: 2

This course is an introduction to medical terminology and language used in the medical system. Emphasis is placed on building and analyzing medical terms with attention focused on prefixes, suffixes, and root words. Medical terms are correlated to specific human body systems as part of a basic overview of anatomy and physiology.

HSC 1532 Advanced Medical Terminology

Credit Hours: 3

Advanced review of medical language used throughout the healthcare delivery system. Emphasis is placed on anatomy, physiology and pharmaceutical terms. Emphasis will also be placed on the ability to infer understanding of medical subjects, communication utilizing medical terminology with proper pronunciation and spelling.

HSC 1554 Pathophysiology and Pharmacology

Credit Hours: 3

This course covers the nature, cause, and treatment of human diseases including the diagnostic, pharmacologic, and therapeutic modalities.

HSC 1641 Medical Law, Ethics, and Bioethics

Credit Hours: 2

The course provides a general introduction in medical law and ethics for students embarking on a healthcare-related career. Covering a wide range of legal issues in the context of the healthcare industry, topics include criminal and civil acts, contracts, negligence, and ethical concepts relevant to the healthcare professional. Students will have the opportunity to discuss modern day topics that impact healthcare professionals. Current issues in healthcare and bioethics will be discussed. Ethical questions that arise in medical care and research will also be examined.

HSC 2400 First Aid & Safety for the Citizen Responder

Credit Hours: 3

Lab Fee: Yes

This course covers general first aid for the "citizen responder," providing the knowledge and skills necessary to help sustain life, reduce pain, and minimize the consequences of injury or sudden illness until professional medical help arrives in an emergency. Upon successful completion of this course, students will be certified in Basic Life Support (BLS)

HSC 2810 Healthcare Navigator Field Experience

Credit Hours: 1

Prerequisites: Course must be taken in the last semester of the program

Lab Fee: Yes

This course is designed to prepare students for employment as patient navigators or community public health workers by providing experiential learning.

HSC 3032 Health Education and Promotion

Credit Hours: 3

Prerequisites: Departmental approval or admission to Bachelor's program required

This course provides the student with an introduction to educational concepts and theory relative to Allied Health education. Topics included are course development and design, goals and objectives, instructional methods, education media and software, fundamentals of learning, and collaborative learning. Diversity in the student body, learning styles, and motivation will also be addressed.

HSC 3201 Community Health

Credit Hours: 3

Prerequisites: Departmental approval or admission to Bachelor's program required

This course is designed to assist students in recognizing and analyzing the interrelationships between individuals, population groups, and communities. Students will explore the complex determinants of health and disease, the impact of economic, social, environmental and cultural concerns on community health status, and community organizations that help shape community health. Course content examines the history and foundations of community health by integrating concepts from behavioral, biological and natural sciences including epidemiology.

HSC 3537 Health and Medical Terminology

Credit Hours: 3

Prerequisites: Departmental approval or admission to Bachelor's program required

This course teaches students proper medical and scientific terminology use within the context of human anatomy, physiology, and pathology. Writing and pronunciation exercises help students develop a command of medical terms.

HSC 3661 Therapeutic Communication

Credit Hours: 3

Prerequisites: Departmental approval or admission to Bachelor's program required

Through lecture, discussion, and role-play in large and small groups, students learn appropriate verbal and nonverbal behavior with patients, families, and the healthcare team.

HSC 3740 Quality Assurance for the Biomedical Sciences Laboratory

Credit Hours: 3

Prerequisites: STA 2023 or PHC 4094 with a grade of "C" or higher and program approval or admission to Bachelor's program required

This course introduces students to the quality assurance (QA) profession in the biotechnology, biopharmaceutical, and the biomedical device industries. The theories and application of QA and quality control (QC) will be taught along with the tools and techniques for sampling and analysis. The student will evaluate standards and be able to explain basic procedures for system audits. This course teaches the key components and principles of QA/QC in reference to federal guidelines, using specific examples from the biomedical field.

HSC 3741 Writing for Healthcare Professionals

Credit Hours: 3

Prerequisites: Program approval or admission to Bachelor's required

This is a composition course focusing on writing for science, technology, and healthcare. Assignments will include grant writing, peer-reviewed publication, and patient communication. Students use a variety of research and investigative techniques to produce in-depth documented papers on science, technology, or healthcare subjects for both professional and layperson applications. APA style will be used to generate documents. This course should be taken in the first semester of program study.

HSC 3801 Clinical Observation/Volunteer Work

Credit Hours: 1

Prerequisites: Departmental approval or admission to Bachelor's program required

Lab Fee: Yes

This course is a 48-hour internship designed to provide the student with an opportunity to learn about a specific healthcare field or gain knowledge about specific patient or client populations or issues through direct observation and/or hands-on assistance. It also is designed to provide an opportunity for the student to consider his or her own values and responses to different healthcare situations and patient circumstances. The health sciences internship is the clinical observation/volunteer course for the BAS in Applied Health Sciences. It is a culminating project requiring the application and mastery of the program competencies. Students choose and work collaboratively with community organizations or agencies during the practical experience, based on personal and professional interest for career growth. This course is to be taken in the last semester of the program. Students may be required to take and pass a level 2 background test and drug screen.

HSC 3820 Transcultural Biomedical Science - Study Abroad

Credit Hours: 4

Prerequisites: Permission of the instructor required

Corequisites: Participation in a study abroad healthcare experience
Advanced standing in the BAS Biomedical Specialization. This course is designed to provide students with the opportunity to gain a global health perspective through a study abroad. The student will travel to a supervised international site and experience local culture through interaction with healthcare providers and healthcare recipients from local communities. Healthcare systems and cultural values surrounding international healthcare will be explored through clinical experiences.

HSC 4184 Healthcare Leadership

Credit Hours: 3

Prerequisites: Departmental approval or admission to Bachelor's program required

This course addresses behavioral styles contributing to leadership effectiveness. Students study specific styles for their contributions to motivating people and overall leadership effectiveness in healthcare.

HSC 4404 Medical Disaster Management

Credit Hours: 3

Prerequisites: Departmental approval or admission to Bachelor's program required

This course introduces students to facets of natural and technological disasters including public health research designs and practices. Class lectures and discussions utilize recent and historical case studies to develop critical thinking and leadership skills needed by healthcare professionals in crisis situations. International, domestic, and regional issues are addressed, as well as the social, economic, and political aspects of disaster planning, preparedness, and mitigation.

HSC 4500 Epidemiology

Credit Hours: 3

Prerequisites: STA 2023 or Biostatistics with a grade of "C" or higher and admission to Bachelor's program required

This course provides knowledge about the basic role and concepts of epidemiology in the healthcare system and biology. Case studies of various diseases, mental disorders, environmental health hazards, and accidents will be used to elucidate epidemiological concepts.

HSC 4851 Health Sciences Internship

Credit Hours: 3

Prerequisites: Departmental approval required

Lab Fee: Yes

The health sciences internship is the capstone project for the BAS in Applied Allied Health. It is a culminating project requiring the application and mastery of the program competencies. Students choose and work collaboratively with community organizations or agencies during the practical experience, based on their personal and professional interest for their career growth. This course to be taken in the last semester.