

HEALTH SCIENCE

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.

More Info (<https://one.ufl.edu/soc/>)

Unless otherwise indicated in the course description, all courses at the University of Florida are taught in English, with the exception of specific foreign language courses.

Department Information

The Bachelor of Health Science (BHS) program is for students whose career goal is to work in the health professions providing service to individuals and communities. BHS students are typically pursuing health related professions such as medicine, physician assistant, physical therapy, occupational therapy, audiology, speech-language pathology, dentistry, epidemiology, or public health.

Website (<https://undergrad.phphp.ufl.edu/>)

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Map (<http://campusmap.ufl.edu/#/index/0212>)

Curriculum

- /UGRD/colleges-schools/UGPBH/DSC_UMN/
- /UGRD/colleges-schools/UGPBH/HES_UMN/
- Applied Brain Science Minor
- Health Professions Minor
- Health Science

Courses

BSC 3096 Human Physiology 3 Credits

Grading Scheme: Letter Grade

Functioning of human tissues, organs and organ systems, emphasizing the physical, chemical and mechanistic bases of normal physiology and the integrated function of the human body. Also introduces pathophysiological changes associated with human diseases.

Prerequisite: (CHM 1031 or CHM 2046 or CHM 2047) and BSC 2011.

GEY 4001 Issues and Concepts in Gerontology 3 Credits

Grading Scheme: Letter Grade

Multidisciplinary overview of the field of aging covers biomedical and health issues, psychosocial factors, applied aspects, and policy issues.

Prerequisite: PSY 3213L.

HSA 3111 US Health Care System 3 Credits

Grading Scheme: Letter Grade

Overview of organization, delivery, and financing of health services in the US. Topics include health professionals, health care facilities, financing of health services, managed care, and current health policy issues.

Prerequisite: Sophomore standing and PSY 2012 with a minimum grade of C & STA 2023 with a minimum grade of C & (HES_BHS or PBH_BPH or CSD_BHS major or (HES_UMN or PBH_UMN minor)).

HSA 4154 Health Policy 3 Credits

Grading Scheme: Letter Grade

Engage in thinking critically about both the evolution of US Health Policy and the forces that influence current health policy. Develop strategies for conducting policy analyses and participation in the political process.

Prerequisite: HSA 3111.

HSA 4191 Health Informatics & Emerging Healthcare Technologies 3 Credits

Grading Scheme: Letter Grade

Provides a fundamental understanding health informatics, healthcare information systems, and emerging healthcare technologies, starting with the core informatics competencies and the foundation of knowledge model.

Prerequisite: PHC 4101 or HSA 3111 or instructor permission.

Attributes: Artificial Intelligence

HSA 4364 Healthcare Operations Management, Strategy, and Quality 3 Credits**Grading Scheme:** Letter Grade

Provides a working knowledge of healthcare operations management, and with an understanding of the importance of effective and efficient delivery of healthcare services within the healthcare industry, and to society overall. Learn to develop, evaluate, and apply management systems, project management tools, supply chain management, operations performance metrics, and quality improvement strategies using both quantitative and qualitative skill.

Prerequisite: HSA 3111 and STA 2023.**HSA 4430 Health Economics 3 Credits****Grading Scheme:** Letter Grade

Explores the economic forces that shape our health to reveal the unexpected consequences of everyday choices. Topics include healthcare demand and supply, health insurance, information economics, innovation, policy analysis, and behavioral economics. Through practical applications, students conduct vital economic analyses that can inform healthcare decision making, assess policies, and addressing inequities.

Prerequisite: HSA 3111 and STA 2023 or equivalent.**HSC 2000 Introduction to Health Professions 3 Credits****Grading Scheme:** Letter Grade

Lecture, discussion and group assignments provide the opportunity to learn about different disciplines making up a health care team and their role in both the science and practice of health care.

HSC 3057 Research Methods and Issues in Health Science 3 Credits**Grading Scheme:** Letter Grade

Emphasizes four aspects of research: understanding research principles, evaluating journal articles, applying research findings to clinical settings, and designing programmatic evaluation projects.

Prerequisite: Sophomore standing and PSY 2012 with a minimum grade of C & STA 2023 with a minimum grade of C & (HES_BHS or PBH_BPH or CSD_BHS major or ABS_UMN minor).**HSC 3502 Survey of Diseases and Disability 3 Credits****Grading Scheme:** Letter Grade

Overview of medical and psychosocial aspects of chronic diseases and disability.

Prerequisite: [STA2023+PSY2012+PHC4101 + (Health Science or Public Health or Communication Sciences and Disorders)] OR [(STA2023 + PSY2012 + (Health Professions or Rehabilitation))]**HSC 3661 Therapeutic Communication Skills with Patients, Families and the Health Care Team 3 Credits****Grading Scheme:** Letter Grade

Learn appropriate verbal and nonverbal behavior to be used with patients, families, and the health care team through lecture, discussion, and role play in large and small groups.

Prerequisite: ((HSA3111 with a minimum grade of C) & HES_BHS major) or (HSC3502 with a minimum grade of C and HPR_UMN minor)) and Junior standing or higher.**HSC 3801 Clinical Observation / Health Care Volunteer Work 1-4 Credits****Grading Scheme:** S/U

Learn about a specific health care field or gain knowledge about specific patient or client populations through direct observation and/or hands-on assistance.

Prerequisite: health science majors only and department permission.**HSC 4008 Professional Development for the Health Sciences 1 Credit****Grading Scheme:** S/U

Fosters the professional development needed to transition into the health and public health professions. Enrichment activities include diversity training, presentation skills training, career planning, and developing an online portfolio.

Prerequisite: PHHP senior in the limited-access program.**HSC 4064 Wearable Technology, Robotics, and Artificial Intelligence for Health 3 Credits****Grading Scheme:** Letter Grade

Explore wearable technology, robotics, and Artificial Intelligence (AI) integration in health. Students will gain an in-depth understanding of how these technological advancements are revolutionizing health, improving patient care, and enabling health professionals to deliver more efficient and effective services. Students will learn through lectures, hands-on exercises, field trips, and discussions.

Prerequisite: PSY 2012 & HSC 3502 both with a minimum grade of C & (HES_BHS or CSD_BHS or PBH_BPH major).**HSC 4184 Health Care Leadership: Skills and Styles 3 Credits****Grading Scheme:** Letter Grade

Behavioral styles that contribute to leadership effectiveness. Studies specific styles for their contributions to motivating people and overall leadership effectiveness in health care.

Prerequisite: HSA 3111 and HSC 3502 and HSC 4558 and Health Science major.

HSC 4247 Disinformation and Misinformation in Healthcare 3 Credits**Grading Scheme:** Letter Grade

Traces the interplay of misinformation and disinformation and the impact on personal and public health in the United States. Imparts understanding of the real world impact of misinformation on health outcomes and what can be done about it. Knowledge gained can be used to help understand how people are misinformed and lay the groundwork for being better informed future practitioners. Provides strategies to engage with people those influenced by misinformation or disinformation.

Prerequisite: Enrollment in Health Science program (HES_BHS, PBH_BPH, and CSD_BHS) or permission of the instructor.

HSC 4541 Musculoskeletal Assessment in Rehabilitation 3 Credits**Grading Scheme:** Letter Grade

This undergraduate course explores musculoskeletal assessment techniques and their application in rehabilitation. Designed to equip students with fundamental skills, knowledge, and practical experience, the course delves into the assessment of the skeletal system, muscular system, and their interplay in the context of physical therapy and occupational therapy. Through a combination of lectures, demonstrations, and case studies, students will learn to perform accurate musculoskeletal assessments.

Prerequisite: Health Science Major (HES_BHS), HSC 3661, and OTH 3416 with grades of C or higher.

HSC 4557 Medical Pharmacology in Clinical Care 3 Credits**Grading Scheme:** Letter Grade

Overview of the fundamental principles of pharmacology, including drug classifications, mechanisms of action, and their impact on the human body. Explore the history of pharmacology, drug development, and the ethical considerations surrounding drug use and regulation.

Prerequisite: OTH 3416 with a minimum grade of C and (HES_BHS major or HPR_UMN minor).

Attributes: Artificial Intelligence

HSC 4558 Survey of Diseases and Disabilities 2 3 Credits**Grading Scheme:** Letter Grade

Overview of medical and psychosocial aspects of chronic diseases, including issues of disability management. This required course, combined with HSC 3502, covers all of the major disabling conditions.

Prerequisite: HSC 3502; Health Science, Public Health, Communication Sciences and Disorders majors/minors only

HSC 4600 Psychiatric Disorders 3 Credits**Grading Scheme:** Letter Grade

Study of major psychiatric syndromes and their management. The continuum of disorders from health to psychopathology.

Prerequisite: PSY 2012

HSC 4608 Clinical Diagnosis and Decision Making 3 Credits**Grading Scheme:** Letter Grade

Facilitates the development of critical thinking and problem-solving skills in healthcare. Uses a problem-based learning approach by providing carefully selected clinical, legislative, ethical, and professional problems. Guidance in the problem solution is provided.

Prerequisite: Senior standing and HSC 3661 with a minimum grade of C & (HES_BHS major).

HSC 4652L Ethical and Legal Issues in the Health Professions 3 Credits**Grading Scheme:** Letter Grade

Overview of ethical and legal issues in the health professions, including contemporary ethical issues in disease management.

Prerequisite: HSA 3111 & HSC 3502 & HSC 3661 all with a minimum grade of C & (HES_BHS major).

HSC 4905 Individual Study 1-4 Credits**Grading Scheme:** Letter Grade

Supervised program of study to investigate problems significant to health professions.

Prerequisite: HSC 3032 with minimum grade of C and Health education and behavior majors, junior or senior standing; faculty member or program coordinator permission.

HSC 4930 Special Topics 1-4 Credits**Grading Scheme:** Letter Grade

Special topics in health science. Refer to the department for specific topic information. Can be repeated with change in content for up to 12 credits.

Prerequisite: Public Health or Health Science or Communication Sciences and Disorders major with junior standing or higher.

HSC 4969 Honors Seminar in the Health Professions 1-3 Credits**Grading Scheme:** Letter Grade

Philosophy and implementation of scientific work, including an introduction to faculty research. Provides the opportunity to explore and discuss potential honors thesis topics.

Prerequisite: 3.5 GPA, majors only and department permission.

HSC 4970 Public Health and Health Professions Senior Honors Thesis 1-6 Credits**Grading Scheme:** Letter Grade

Special project leading to the distinction of magna or summa cum laude at graduation. The project can be any creative work that focuses on a specific topic or issue in the health professions. The student develops an outline of the special project prior to project initiation and produces a final paper at project completion. The paper must be approved by the program and dean's office for the student to graduate magna or summa cum laude.

Prerequisite: HSC 4969, senior standing, majors only and a 3.75 GPA.

OTH 3416 Pathophysiology 3 Credits

Grading Scheme: Letter Grade

Basic understanding of pathophysiology as a change from normal physiological functioning of the various systems of the human body.

Prerequisite: (APK 2105C or CHM 2045) & (BSC 2005 or BSC 2010) & HSA 3111 & PHC 4101 all with a minimum grade of C & (HES_BHS major or (HES_UMN minor)).

OTH 4418 The Nervous System and Disorders 3 Credits

Grading Scheme: Letter Grade

Comprehensive foundation in neuroanatomy, neurophysiology, and neuropathology.

Prerequisite: HSC 3502 and HSC 4558 and OTH 3416 and Health Science major or minor.

Corequisite: OTH 4418L.

PHC 2100 Introduction to Public Health 3 Credits

Grading Scheme: Letter Grade

Overview of public health as a multifaceted field. Includes discussion of contemporary public health challenges with input from discipline experts.

Attributes: General Education - Social Science

PHC 3400 Human Animal Interaction and Health 3 Credits

Grading Scheme: Letter Grade

Introduces health implications of Human-Animal Interaction (HAI). Primarily focuses on companion animals (i.e., pets) in the US, though other HAIs and contexts will be discussed. Students will map the interrelationships between various HAIs, the broader social environment, and human and animal health.

Prerequisite: PHC 2100 or by instructor permission.

PHC 3603 Critical Issues in Public Health 3 Credits

Grading Scheme: Letter Grade

Learn how to analyze, compare, and contrast the most current complex public health issues in society. Comprehend and discuss the influence of personal bias, scientific evidence, and societal trends on a variety of public health issues.

Prerequisite: PHC 4101 with a minimum grade of C & (PBH_BPH major or (PBH_UMN minor)).

PHC 4101 Public Health Concepts 3 Credits

Grading Scheme: Letter Grade

Introduces the basic tenets, applications, and foci of public health, including integrating public health with other health professions.

Prerequisite: Sophomore standing and PSY 2012 with a minimum grade of C & STA 2023 with a minimum grade of C & (HES_BHS or PBH_BPH or CSD_BHS major or (PBH_UMN minor)).

PHC 4930 Special Topics in Public Health 1-6 Credits

Grading Scheme: S/U

Exploration of a general or a specific area of public health.

Prerequisite: junior or senior standing.

PHC 4943 Service Learning Practicum 3 Credits

Grading Scheme: Letter Grade

Covers development of the role of a public health and human services provider in an agency setting.

Prerequisite: PHC 4101 & PHC 4320 & PHC 4024 & HSA 3111 all with a minimum grade of C & (PBH_BPH major) & senior standing.

RCS 4451 Rehabilitation Aspects of Substance Abuse 3 Credits

Grading Scheme: Letter Grade

Rehabilitation counseling implications of alcohol and drug use in society and the work place. Emphasis on detection, treatment, and follow-up services for individuals in the rehabilitation process.

Prerequisite: PHC 4101 with a minimum grade of C & (HES_BHS major or PBH_BPH major or PBH_UMN minor).
