

COURSES FOR HEALTH SCIENCE

Athletic Training Courses

ATR257 Intro to Athletic Training

Hours 3

The study of current principles in the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses.

ATR258 Clinical Fundamentals

Hours 1

The study and practice of clinical skills in the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses. Directed observations under the guidance of BOC certified athletic trainers.

ATR272 First Aid, Safety & CPR

Hours 1

The discussion and practice of skills and techniques in the emergency response to injuries and illnesses. Includes emergency assessment, first aid, cardiopulmonary resuscitation for infants, children and adults and AED use.

ATR300 Foundations in AT

Hours 3

Study and discussion of topics and clinical skills related to the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses. Introduction to healthcare administration.

Prerequisite(s): ATR 257 and ATR 258 and ATR 272

Prerequisite(s) with concurrency: BSC 215 and NHM 315 and ATR 310

ATR305 Clinical Biomechanics for Healthcare Professionals

Hours 3

This course is a review of external and internal forces on the body. It will explore both the statics and dynamics of motion including kinetics and kinematics. This course will also explore a variety of issues of human movement related to exercise/sport and injury.

Prerequisite(s): ATR 257

Prerequisite(s) with concurrency: BSC 215; BSC 216

ATR310 Clinical Skills I

Hours 1

Acquisition, evaluation, synthesis and application of clinical skills in the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses. Clinical experiences under the direct supervision of BOC Certified and Alabama Licensed Athletic Trainers.

Prerequisite(s): ATR 257 and ATR 258 and ATR 272

Prerequisite(s) with concurrency: BSC 215 and NHM 315 and ATR 300

ATR312 Interdisciplinary Healthcare Teams in Sports Medicine

Hours 2

The focus of the course is to learn about the role of various healthcare professionals within the Sports Medicine team and how to interact as a healthcare team to improve patient care.

Prerequisite(s): ATR 272 and ATR 300

ATR320 Integration of Clinical Skills in AT II

Hours 1

Acquisition, evaluation, synthesis and application of clinical skills in the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses with an emphasis on the lower extremity. Clinical experiences under the direct supervision of BOC Certified and Alabama Licensed Athletic Trainers.

Prerequisite(s): ATR 257 and ATR 258 and ATR 272 and ATR 300 and ATR 310 and BSC 215 and NHM 315

Prerequisite(s) with concurrency: ATR 357 and BSC 216 and KIN 365

ATR357 Examination, Assessment & Diagnosis I

Hours 3

Study of the lower extremities as they relate to the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses.

Prerequisite(s): ATR 257 and ATR 258 and ATR 272 and ATR 300 and ATR 310 and BSC 215 and BSC 216 and KIN 365 and ATR 320

Prerequisite(s) with concurrency: BSC 216 and KIN 365 and ATR 320

ATR358 Examination, Assessment & Diagnosis II

Hours 3

Study of the upper extremities as they relate to the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses.

Prerequisite(s): BSC 215 and BSC 216 and NHM 315 and KIN 365

Prerequisite(s) with concurrency: ATR 457 and ATR 410 and PH 101

ATR360 Examination, Assessment & Diagnosis III

Hours 3

Study of the head, neck, face, abdomen, thorax and thoracic and lumbar spines as they relate to the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses.

Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and PH 101

Prerequisite(s) with concurrency: ATR 420 and ATR 456 and KIN 492

ATR405 Psychological Aspects of Injury

Hours 3

This course allows students to explore, develop and refine their personal values and ethical foundations as they relate to the psychosocial aspects of healthcare and professional practice. Special emphasis is placed on the psychology of injury and catastrophe, recognition of psychological conditions, counseling and intervention strategies, and the utilization of mental imagery and other psychological skills. Exploration of professionalism, leadership, communication, diversity, inter-relationships between patients, families and the medical community, stress management, burnout, and ethical questions associated with injury, sport and general healthcare also are discussed.

Prerequisite(s): ATR 300

ATR410 Integration of Clinical Skills in AT III

Hours 1

Acquisition, evaluation, synthesis and application of clinical skills in the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses with an emphasis on the upper extremity and the use of therapeutic modalities in the comprehensive patient care plan. Clinical experiences under the direct supervision of credentialed medical and allied medical professionals.

Prerequisite(s): BSC 215 and BSC 216 and NHM 315 and KIN 365

Prerequisite(s) with concurrency: PH 101 and ATR 358 and ATR 457

ATR415 Scientific Reading and Writing in Athletic Healthcare

W

Hours 3

The acquisition and application of advanced literature search and scientific literature interpretation skills. The refinement of scientific writing skills as they relate to the development and completion of a scientific proposal paper.

Prerequisite(s): ATR 257, ATR 258, ATR 272, ATR 305 or KIN 365, ATR 405, EN 101, EN 102, HHE 378

Writing

ATR420 Integration of Clinical Skills in AT IV

Hours 1

Acquisition, evaluation, synthesis and application of clinical skills in the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses with an emphasis on the head, neck, face, thorax, abdomen and spine and the use of therapeutic exercises in the comprehensive patient care plan. Clinical experiences under the direct supervision of credentialed medical and allied medical professionals.

Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and PH 101

Prerequisite(s) with concurrency: KIN 492 and ATR 360 and ATR 456

ATR430 Integration of Clinical Skills in AT V

Hours 1

Acquisition, evaluation, synthesis and application of clinical skills in the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses with an emphasis on acute and chronic medical conditions and their pharmacologic management within a well organized healthcare program. Clinical experiences under the direct supervision of credentialed medical and allied medical professionals.

Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 360 and ATR 410 and ATR 420 and ATR 453 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and KIN 492 and PH 101

Prerequisite(s) with concurrency: ATR 454 and ATR 455

ATR432 Physiological Basis and Conditioning Methods for Performance

Hours 3

This course is designed to present up-to-date information regarding the human physiological response to exercise, as well as the applied aspects of strength and conditioning and the scientific principles that guide this practice. Students will gain knowledge in how to perform pre-exercise assessments, develop appropriate exercise training programs based on these assessments, as well as lead and demonstrate safe and effective methods of exercise by the application of the primary theories and principles of exercise science. This course will also introduce methods of patient assessment and reducing the risk of injury. A combination of lecture and practical class sessions will be used.

Prerequisite(s): ATR 300, BSC 215, and BSC 216

ATR440 Integration of Clinical Skills in Athletic Training VI

Hours 1

Acquisition, evaluation, synthesis and application of clinical skills in the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses with an emphasis on acute and chronic medical conditions and post-surgical rehabilitation. Clinical experiences under the direct supervision of trained preceptors.

Prerequisite(s): admission to the AT Professional Program, ATR 300, ATR 310, ATR 320, ATR 357, ATR 358, ATR 360, ATR 410, ATR 420, ATR 453, ATR 456, ATR 457, BSC 215, BSC 216, KIN 365, KIN 492, NHM 315 & PH 101

Prerequisite(s) with concurrency: ATR 458

ATR453 Appl Clin Res Skills

Hours 3

Acquisition, evaluation, synthesis and application of clinical, research and teaching skills in athletic training with an emphasis on clinical question development and the incorporation of evidence based practice in resolving clinical questions and developing and implementing patient care plans. Clinical experiences under the direct supervision of allied medical and medical professionals in a range of patient care settings.

Prerequisite(s): ATR 300 and ATR 310 and ATR 357 and ATR 358 and ATR 360 and ATR 410 and ATR 420 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and KIN 492 and PH 101

ATR454 Healthcare Administration in AT

Hours 3

Current theories, methods and techniques in the organization and administration of athletic training programs.

Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 420 and ATR 453 and ATR 456 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and PH 101

Prerequisite(s) with concurrency: ATR 430 and ATR 455

ATR455 Pharmacology and Pathology in AT

Hours 3

The study of acute and chronic illnesses and their response to and the impact on, physical activity. Discussion of pharmacologic agents used in the therapeutic intervention of common acute and chronic illnesses.

Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 360 and ATR 410 and ATR 420 and ATR 453 and ATR 456 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and KIN 492 and PH 101

Prerequisite(s) with concurrency: ATR 430 and ATR 454

ATR456 Therapeutic Intervention II: Rehabilitation & Reconditioning

Hours 3

Methods, theories and techniques in the rehabilitation and reconditioning of injuries. The examination, assessment and diagnosis of injuries relative to rehabilitation and reconditioning.

Prerequisite(s): ATR 300 and ATR 310 and ATR 320 and ATR 357 and ATR 358 and ATR 410 and ATR 457 and BSC 215 and BSC 216 and NHM 315 and KIN 365 and PH 101

Prerequisite(s) with concurrency: ATR 360 and ATR 420 and KIN 492

ATR457 Therapeutic Intervention I: Therapeutic Modalities

Hours 3

Current theories, methods and techniques in the application of therapeutic modalities during the treatment of injuries. The examination, assessment and diagnosis of injuries relative to therapeutic modalities.

Prerequisite(s): BSC 215 and BSC 216 and NHM 315 and KIN 365 and ATR 300 and ATR 310 and ATR 357 and ATR 320

Prerequisite(s) with concurrency: PH 101 and ATR 358 and ATR 410

ATR458 Seminar in AT

W

Hours 3

Discussion of current issues in athletic training with an emphasis on the application of current research to the practice of athletic training. Writing proficiency is required for a passing grade in this course. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the course.

Prerequisite(s): ATR 300, ATR 310, ATR 320, ATR 357, ATR 358, ATR 360, ATR 410, ATR 420, ATR 430, ATR 453, ATR 454, ATR 455, ATR 456, ATR 457, BSC 215, BSC 216, PH 101, NHM 315, KIN 365, KIN 492

Prerequisite(s) with concurrency: ATR 440

Writing

ATR488 Internship in Athl Training

Hours 1-12

Directed internship in a health care facility for the senior athletic training student.

ATR496 Ind Study Athletic Training

Hours 1-12

Independent study of skills and topics in athletic training for the senior athletic training student.

ATR552 Seminar in Athl. Training

Hours 3

A review of historical developments in the field of athletic training with emphasis on current challenges in the profession.

ATR554 Advanced Clin Eval Diag

Hours 3

Advanced clinical evaluation and diagnosis of structural and functional of soft tissue and skeletal injuries through the acquisition, application and integration of clinical skills. Focus on consideration of the entire kinetic chain in the examination and diagnostic process.

ATR555 Pharmacology in Athl. Trng

Hours 3

The study of pharmacologic agents used in the management of acute and chronic illnesses and their response to and impact on physical activity. Discussion of acute and chronic illnesses.

ATR556 Manual Therapy

Hours 3

Advanced evaluation of the structure and function of soft tissues and articulations. Focus on the acquisition and application of clinical skills in manual therapy with emphasis on the integration of manual therapy into the overall treatment plan.

Prerequisite(s): ATR 554 or HAT 554

ATR557 EBP Ther Modalities

Hours 3

A review of current theories, methods and techniques in the application of therapeutic modalities and a critical review of the evidence in support of these clinical practices.

ATR558 Applied Rsrch in Athl. Trng.

Hours 3

The acquisition and application of advanced literature search and scientific literature interpretation skills. The refinement of scientific writing skills as they relate to the development and completion of a literature review paper.

General Health Studies Courses

HHE265 Safety and Injury Prevention

Hours 3

Among people 1-44 years of age, unintentional injury is the leading cause of death in the United States according to the centers for disease control and prevention (CDC). Even after age 44, unintentional injury remains among the top ten causes of mortality among Americans. Additionally, millions of Americans are injured each year and not die. For individuals that survive an injury, pain and disability can linger for years, if not for the rest of their lives. This course explores the complex nature of unintentional injuries while examining the impact of various prevention strategies.

Prerequisite(s): NONE

Prerequisite(s) with concurrency: NONE

HHE270 Personal Health

Hours 3

A thoughtful discussion of individual, social, environmental, and political factors that influence personal health and well-being.

HHE273 Introduction to Public Health

Hours 3

Methods and techniques by which community health workers identify and measure the scope and intensity of health problems.

HHE370 Prin/Foundatn Health Promotion

Hours 3

The course examines the role of health education/health promotion and includes an orientation to the profession and consideration of current trends, problems, and issues in health education.

HHE375 Health Behavior Theory

Hours 3

The purpose of this course is to examine the determinants of health-related behavior and discuss how health education/promotion theories and models are used in research and practice.

Prerequisite(s) with concurrency: HHE 370

HHE378 Drugs, Society, and Human Behavior

W

Hours 3

The purpose of this course is to provide an introduction to topics associated with drug use, primarily from a public health perspective. The course will address the effects of drug use on society and the individual, and examine physiological, psychological, and sociological aspects of this public health problem. Writing proficiency is required for a passing grade in this course. A student who does not write with the skill normally required of an upper-division student will not earn a passing grade, no matter how well the student performs in other areas of the course.

Writing

HHE380 Public Health Systems and Policy

Hours 3

Local, state, and national public health policy and politics. Review and analysis of public and private health systems.

Prerequisite(s): HHE 273

HHE385 Introduction to Patient Education

Hours 3

This course serves as an introduction to theories that apply to the practice of patient education in a variety of health care settings. Additionally, the course provides an overview of the U.S. health care industry. Emphasis is on education for promotion of health and change of lifestyle.

Prerequisite(s): HHE 270

Prerequisite(s) with concurrency: HHE 375

HHE390 Wellness Assessment and Disease Management

Hours 3

Fundamental principles of wellness assessment and disease management plan development in the worksite. Includes practice of assessment skills and techniques.

Prerequisite(s): HHE 270

HHE440 Understanding Stress Mgt

Hours 3

An examination of the psychophysiology of the stress response and indicators of excessive stress. Stress management techniques are examined and taught.

HHE445 Environmental Health

Hours 3

The course is designed to promote the acquisition of environmental health knowledge and skills for application in community/public health education settings. Course content will address environmental factors that affect human and ecological health and environmental health education and promotion strategies.

Prerequisite(s): HHE 273

HHE446 Health Disparities

Hours 3

This course is designed to explore health disparities in the United States and throughout the world. Course content will address societal factors that have an impact on health disparities. The course focus will also address cultural competency and appropriate health education and promotion strategies.

Prerequisite(s): HHE 370

HHE450 Introduction to Epidemiology for Health Education and Promotion

Hours 3

An introductory course in epidemiology designed to promote an understanding of the analysis and application of epidemiological data for students in health professions with a primary focus on health education and promotion.

Prerequisite(s): HHE 270 HHE 273

HHE467 Design Eval Health Promo

Hours 3

Designed to help health educators develop competencies in program design, implementation, and evaluation.

Prerequisite(s): HHE 370 and HHE 375

HHE468 Pract Appl Health Comm & Promo

Hours 3

A lecture/demonstration/discussion course designed to help health educators develop competencies in program applications, with particular attention to the needs assessment process and health communication techniques.

Prerequisite(s): HHE 370 and HHE 375

HHE470 Needs Assessment and Program Planning

Hours 3

This course examines the principles of conducting needs assessments and planning effective health promotion programs, including the implementation of sound prevention and health promotion strategies.

Prerequisite(s): HHE 370 and HHE 375

HHE475 Program Evaluation in Health Promotion

Hours 3

Designed to provide practical tools that can be used in real world settings, this course will examine methods to determine if and how a particular health-related program works. Emphasis will be placed on process and impact evaluation methods.

Prerequisite(s): HHE 370 and HHE 375

HHE480 Culminating Experience in Public Health

Hours 3

The purpose of this course is to provide students in the Public Health program with opportunities to apply public health and health education/promotion concepts presented during their undergraduate courses. This course includes observations, applications, and reflections of those concepts in professional practice.

Prerequisite(s): Advisor Permission Required

HHE485 Service Learning in Health Promotion

Hours 3

The purpose of this course is to give students the opportunity to provide small group health education in a local community setting based on a health need identified by community members. The didactic component of the course involves an introduction to service learning; an overview of health literacy and health education principles, theory, and strategies; and an in-depth review of the pathophysiology, prevention, and treatment of a particular disease or condition (e.g., Type 2 diabetes). The illness selected would be based on community input. This course will expose students to various genetic, behavioral, and social determinants of health. Approval of instructor required.

HHE488 Internship Community Health

Hours 1-12

Directed internship in a community health agency, business, clinic, or other health-related setting; observation and on-the-job experience through direct participation.

HHE496 Independent Study

Hours 1-6

Designed to provide the opportunity for independent work in any area of health education/health promotion.

HHE500 Rural Environ/Occupatnl Health

Hours 3

The goal of the course is to help the student recognize environmental and occupational health hazards in the rural setting, the effects of exposure to these hazards, and preventive measures that should be taken to avoid them.

HHE504 Health Counseling

Hours 3

Diagnoses of individual needs and study of typical counseling cases; includes counseling, theory, and process related to health promotion.

HHE506 Tech Research In Health

Hours 3

Designed to acquaint the student with the types of research and the methods and materials necessary for scientific inquiry; includes development of a research proposal, with emphasis on form and style.

HHE512 Advanced Foundations of Public Health

Hours 3

This course provides foundational knowledge in the profession and science of public health. Course content also addresses factors related to human health, examines public health and health care systems, and explores emerging research and application areas in the field.

HHE515 Advanced Foundations of Health Promotion

Hours 3

Open to graduate students in all divisions of the University. Designed to provide understanding pertaining to advances in the health sciences.

HHE520 Theories of Health Behavior

Hours 3

Designed to review research literature regarding health behavior and to analyze various models developed to explain health behavior.

Prerequisite(s): HHE 515

Prerequisite(s) with concurrency: HHE 515

HHE521 Basic Epidemiology

Hours 3

A course for students in health-related fields. The basic epidemiologic approach is developed; principles and methods are learned through readings (text and published studies), lectures, discussions, and the preparation of a research design by each student.

HHE526 Biostatistics

Hours 3

A course in statistical methods and concepts particularly appropriate for biomedical research and health-related subjects. Topics include descriptive statistics, probability, parametric and nonparametric procedures for one-group and two-group problems, contingency tables, and computer applications.

HHE530 Health Promotion Techniques

Hours 3

Study of current health promotional techniques and programs, designed to facilitate health behavioral change. Emphasis on review of scientific literature concerning the development, implementation, and evaluation of health promotion schemes.

Prerequisite(s): HHE 515

Prerequisite(s) with concurrency: HHE 515 and HHE 565 and HHE 520

HHE542 Pract Issues Behavrl Medicine

Hours 3

Lectures and readings examine behaviors compromising overall health status, such as tobacco use, noncompliance; and behavioral aspects of medical conditions, such as heart disease, cancer, pain. Topics include bioethics, racial/ethnic disparities, and rural mental health. ONLY Rural Medical Scholars may register.

HHE565 Planning Health Promotion Programs

Hours 3

Study of planning and evaluation methods and procedures for health education and promotion programs; emphasis on review of current scientific literature.

HHE566 Program Evaluation in Health Promotion

Hours 3

Process, impact and outcome evaluation methods used to effectively evaluate health education/health promotion programs in the community, medical care, school and work site are reviewed.

Prerequisite(s): HHE 515 HHE 520 HHE 530

Prerequisite(s) with concurrency: HHE 506 and HHE 565

HHE584 Worksite Health Promotion Programs

Hours 3

Workplace health promotion program design, implementation, and evaluation that is grounded in health theory, evidence-based, and promotes health equity while addressing health care cost concerns.

HHE585 Public Health Practice

Hours 1-3

Supervised field experience in an external agency or organization (government, not-for-profit, for-profit) under the direction of a site supervisor and health science faculty member.

Prerequisite(s): HHE 512 and HHE 515 and HHE 521 and HHE 526 and HHE 586

HHE586 Environmental Health Promotion

Hours 3

This course provides a careful study of the physical and human environment and its influence on health and disease. The course also examines implications for environmental health promotion.

HHE587 Health Disparities

Hours 3

The purpose of this project is to examine a case study detailing a unique cultural view/experience of the American health system. It also serves to provide health education and promotion strategies to engage diverse populations in interventions.

HHE588 Sexuality Education: Theory and Practice

Hours 3

Sexuality Education: Theory and Practice deals with contemporary issues in sexuality education in all settings. Issues include how sexuality education should be handled by parents, teachers, and community leaders; controversies surrounding sexuality education; pros and cons of various forms of sexuality education; and, the importance of understanding your own sexuality.

HHE589 Women and Health

Hours 3

The purpose of this course is to emphasize the importance of understanding women's experiences and life circumstances when planning, implementing and evaluating health programs or interventions.

HHE590 Cert Hlth Ed Specialist Study

Hours 3

Course is designed to help students develop and/or refine skills related to the planning, implementation, and evaluation of health education programs in various settings. Completion of the course is also intended to prepare students for the Certified Health Education Specialist examination.

HHE596 Independent Study

Hours 1-6

Designed to provide the opportunity for independent research in any area of health education.

HHE597 Clin Health Prom

Hours 3

Integration and application of the principles of health education and health promotion in the patient care setting.

Prerequisite(s): HHE 515 and HHE 520 and HHE 530 and HHE 566 and HHE 565

Prerequisite(s) with concurrency: HHE 566

HHE598 Non-Thesis Research

Hours 3

Experimental or analytical investigation of health promotion problems.

HHE599 Thesis Research

Hours 1-6

Research study in a selected area of health promotion.

HHE602 Readings In Health

Hours 3

An independent readings course for doctoral students.

HHE603 Spec Projects In Health

Hours 3

Experimental or analytical investigations of problems in health education. Arranged on an independent basis for doctoral students.

HHE604 Seminar In Health

Hours 1-3

Critical and emerging issues in health education and health promotion.

HHE605 Theor Sci Basis Hlth Edu

Hours 3

Examination of theoretical, scientific, historical, and philosophical issues that serve as a basis for health education and health promotion.

HHE606 Plan Admin Hlth Ed Prog

Hours 3

A comprehensive examination of models for planning health education and health promotion programs.

HHE667 Advanced Evaluation In Health Education and Health Promotion

Hours 3

This course provides an indepth analysis of evaluation and measurement techniques applied in health promotion and health education programs (HPE).

HHE685 Field & Lab Experience

Hours 3-6

Arranged on an independent basis for doctoral students. Participation and research in schools, communities, or work site settings.

HHE698 Research

Hours 3

Experimental or analytical investigation of problems in health.

HHE699 Dissertation Research

Hours 1-12

Design, research, and/or analytical investigation of a problem in the area of health to satisfy the dissertation requirement for the doctoral degree.