

COURSES FOR HEALTH SCIENCE

Athletic Training Courses

ATR500 Fundamentals of Professional Practice

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) with concurrency: ATR 503

ATR503 Patient-Centered Care

Hours 2

Study and discussion of topics related to the influence of cultural, environmental and intrapersonal factors on health; and the role of athletic trainers acting within their scope of practice to advocate for patients and incorporate outcomes measures in providing patient-centered care.

Prerequisite(s) with concurrency: ATR 500 and ATR 505 and ATR 507 and ATR 510

ATR505 Examination & Diagnosis I: Lower Extremity

Hours 3

Study of the lower extremity as it relates to the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses.

Prerequisite(s): ATR 500, ATR 503

Prerequisite(s) with concurrency: ATR 507 and ATR 510

ATR507 Examination and Diagnosis II: Medical Conditions

Hours 2

Study of acute and chronic illnesses and medical conditions as they relate to the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses.

Prerequisite(s): ATR 500, ATR 503, ATR 505, ATR 510, & ATR 535

Prerequisite(s) with concurrency: ATR 509 and ATR 511 and ATR 513 and ATR 520

ATR509 Examination & Diagnosis III: Upper Extremity

Hours 3

Study of the upper extremity as it relates to the prevention; examination, assessment and diagnosis; immediate and emergency care; and therapeutic intervention of injuries and illnesses.

Prerequisite(s): ATR 500, ATR 503, ATR 505, ATR 510, & ATR 535

Prerequisite(s) with concurrency: ATR 507 and ATR 511 and ATR 513 and ATR 520

ATR510 Integration of Clinical Skills in Athletic Training I

Hours 1

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

Prerequisite(s) with concurrency: ATR 500 and ATR 503 and ATR 505 and ATR 535

ATR511 Examination & Diagnosis IV: Head, Spine, Thorax & Abdomen

Hours 3

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

Prerequisite(s): ATR 500, ATR 503, ATR 505, ATR 510, & ATR 535

Prerequisite(s) with concurrency: ATR 507 and ATR 509 and ATR 513 and ATR 520

ATR513 Therapeutic Intervention I: Therapeutic Modalities

Hours 2

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

Prerequisite(s): ATR 500, ATR 503, ATR 505, ATR 510, & ATR 535

Prerequisite(s) with concurrency: ATR 507 and ATR 509 and ATR 511 and ATR 520

ATR517 Therapeutic Intervention II: Rehabilitation & Reconditioning

Hours 2

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

Prerequisite(s): ATR 500, ATR 503, ATR 505, ATR 507, ATR 509, ATR 511, ATR 513, ATR 510, ATR 520, & ATR 535

ATR519 Advanced Trauma Management

Hours 1

Study of the recognition, assessment, treatment and referral of advanced, acute emergent and traumatic injury and illness.

Prerequisite(s): ATR 500, ATR 503, ATR 505, ATR 507, ATR 509, ATR 510, ATR 511, ATR 513, ATR 517, ATR 520, ATR 530 & ATR 535

Prerequisite(s) with concurrency: ATR 521 and ATR 525 and ATR 531 and ATR 533 and ATR 540

ATR520 Integration of Clinical Skills in Athletic Training II

Hours 1

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

Prerequisite(s): ATR 500, ATR 503, ATR 505, ATR 510, & ATR 535

Prerequisite(s) with concurrency: ATR 507 and ATR 509 and ATR 511 and ATR 513

ATR521 Therapeutic Intervention III: Injury Care Planning

Hours 3

Application methods of comprehensive therapeutic intervention for injuries & illnesses commonly sustained by the physically active.

Prerequisite(s): ATR 500, ATR 503, ATR 505, ATR 507, ATR 509, ATR 510, ATR 511, ATR 513, ATR 517, ATR 519 & ATR 520

Prerequisite(s) with concurrency: ATR 525 and ATR 530

ATR525 Research in Athletic Training

Hours 1

Introduction to research in athletic training with a focus on conducting a literature review, developing a PICO question, constructing testable hypotheses, selecting variables and identifying appropriate methodology to answer the question.

Prerequisite(s): ATR 500, ATR 503, ATR 505, ATR 507, ATR 509, ATR 510, ATR 511, ATR 513, ATR 517, ATR 520, ATR 530 & ATR 535

Prerequisite(s) with concurrency: ATR 519 and ATR 521 and ATR 531 and ATR 533 and ATR 540

ATR530 Clinical Immersion I: Non-Sport Patient Care

Hours 2

Acquisition, evaluation, synthesis and application of clinical skills in the prevention; examination, assessment and diagnosis; immediate care and emergency care and therapeutic intervention 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): ATR 500, ATR 503, ATR 505, ATR 507, ATR 509, ATR 510, ATR 511, ATR 513, ATR 517, ATR 520, & ATR 535

ATR531 Therapeutic Intervention IV: Pharmacology & Behavioral Medicine

Hours 3

The study of behavioral health conditions and their management with pharmacologic and non-pharmacologic interventions, including referral for appropriate care. Discussion of agents used in the management of acute and chronic illnesses; their response to, and impact on, physical activity; and the impact of physical activity on acute and chronic illnesses.

Prerequisite(s): ATR 500, ATR 503, ATR 505, ATR 507, ATR 509, ATR 510, ATR 511, ATR 513, ATR 517, ATR 520, ATR 530 & ATR 535

Prerequisite(s) with concurrency: ATR 519 and ATR 521 and ATR 525 and ATR 533 and ATR 540

ATR533 Therapeutic Intervention V: Optimizing Patient Outcomes

Hours 2

The study of agents used in the prevention; examination, assessment and diagnosis; and intervention of acute and chronic illnesses and medical conditions.

Prerequisite(s): ATR 500, ATR 503, ATR 505, ATR 507, ATR 509, ATR 510, ATR 511, ATR 513, ATR 517, & ATR 520, ATR 530 & ATR 535

Prerequisite(s) with concurrency: ATR 519 and ATR 521 and ATR 525 and ATR 531 and ATR 540

ATR535 Health Care Administration

Hours 3

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

Prerequisite(s) with concurrency: ATR 500 and ATR 503 and ATR 505 and ATR 510

ATR540 Integration of Clinical Skills in Athletic Training III

Hours 1

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

Prerequisite(s): ATR 500, ATR 503, ATR 505, ATR 507, ATR 509, ATR 510, ATR 511, ATR 513, ATR 517, ATR 520, ATR 530 & ATR 535

Prerequisite(s) with concurrency: ATR 519 and ATR 521 and ATR 525 and ATR 531 and ATR 533

ATR541 Therapeutic Intervention VI: Manual Therapy

Hours 2

Current theories, methods, and techniques in the application of manual therapy during the therapeutic intervention for injuries and illnesses. Emphasis on the appropriate integration of manual therapy skills and traditional rehabilitation techniques into a comprehensive treatment plan. The examination, assessment and diagnosis of injuries relative to manual therapy.

Prerequisite(s): ATR 500, ATR 503, ATR 505, ATR 507, ATR 509, ATR 510, ATR 511, ATR 517, ATR 519, ATR 520, ATR 521, ATR 525, ATR 530, ATR 531, ATR 533, ATR 535, ATR 540

Prerequisite(s) with concurrency: ATR 545 and ATR 550

ATR545 Seminar in Athletic Training

Hours 2

Discussion of current issues in athletic training with an emphasis on the application of current research to the practice of athletic training.

Prerequisite(s): ATR 500, ATR 503, ATR 505, ATR 507, ATR 509, ATR 510, ATR 511, ATR 513, ATR 517, ATR 519, ATR 521, ATR 525, ATR 530, ATR 531, ATR 533, ATR 535 & ATR 540

Prerequisite(s) with concurrency: ATR 541 and ATR 550

ATR550 Clinical Immersion II: Culminating Experience

Hours 2

Acquisition, evaluation, synthesis and application of clinical skills in the prevention; examination, assessment and diagnosis; immediate care and emergency care and therapeutic intervention of injuries and illnesses. Clinical experiences under the direct supervision of trained preceptors.

Prerequisite(s): ATR 500, ATR 503, ATR 505, ATR 507, ATR 509, ATR 510, ATR 511, ATR 513, ATR 517, ATR 519, ATR 521, ATR 525, ATR 530, ATR 531, ATR 533, ATR 535, ATR 540

Prerequisite(s) with concurrency: ATR 541 and ATR 545

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.

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.

ATR596 Independent Study

Hours 1-6

This independent study course is designed to allow students to pursue independent exploration of a particular field or topical area, under the guidance of an advisor. Material covered will be of an advanced nature aimed at providing students with an understanding of current developments within the field.

ATR598 Non-Thesis Research

Hours 2

Experimental or analytical investigation of athletic training research-related research question.

Prerequisite(s): ATR 500, ATR 503, ATR 505, ATR 507, ATR 509, ATR 510, ATR 511, ATR 513, ATR 517, ATR 519, ATR 520, ATR 521, ATR 525, ATR 530, ATR 531, ATR 533, ATR 535 & ATR 540

Prerequisite(s) with concurrency: ATR 541 and ATR 545 and ATR 550

ATR599 Thesis Research

Hours 3

Thesis research focusing on experimental or analytical investigation of athletic training research-related research question.

Prerequisite(s): ATR 500, ATR 503, ATR 505, ATR 507, ATR 509, ATR 510, ATR 511, ATR 513, ATR 517, ATR 519 & ATR 520

Prerequisite(s) with concurrency: ATR 521 and ATR 525 and ATR 530

ATR696 Independent Study

Hours 1-12

This independent study course provides doctoral students with the opportunity to engage in focused, self-directed exploration of a specialized field or topical area under the mentorship of a faculty advisor. The course involves advanced study aimed at deepening understanding of current developments and contributing to the scholarly discourse within the field. The culminating product will be a submission suitable for professional presentation or publication at a University-sponsored or external venue.

Health Studies Courses**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.

Prerequisite(s) with concurrency: HES 509

HHE515 Advanced Foundations of Health Promotion

Hours 3

This course provides an overview of the history, principles, and philosophy of health education/promotion. Key issues in health education and health promotion will be discussed for various age groups and by site of implementation (schools, communities, worksites, and medical care settings).

Prerequisite(s) with concurrency: HES 509

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 promotion 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 or HHE 565 or HHE 520

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.

Prerequisite(s): HHE 520

HHE566 Program Evaluation in Health Promotion

Hours 3

The purpose of this course is to provide an overview of the processes and skills required to effectively measure and evaluate health education and promotion programs.

Prerequisite(s): HHE 515 HHE 520 HHE 530

Prerequisite(s) with concurrency: HES 509 or HHE 565

HHE570 Critical Issues in Global Health

Hours 3

This course explores contemporary issues, problems, and controversies in global health. It examines the social, economic, political, and environmental factors that affect global health. The course also exposes students to opportunities in global health programs and research.

HHE580 Capstone - Applied Practice Experience I

Hours 1

Coordination and proposal of 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, HHE 515

Prerequisite(s) with concurrency: HHE 520 and HHE 530 and HHE 565

HHE581 Capstone - Applied Practice Experience II

Hours 2

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 580

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

SP

Hours 1-6

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

Special Topics Course

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

SP

Hours 3

An independent readings course for doctoral students.

Special Topics Course

HHE603 Spec Projects In Health

SP

Hours 3

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

Special Topics Course

HHE604 Seminar In Health

SP

Hours 3

Critical and emerging issues in health education and health promotion.

Special Topics Course

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.

HHE626 Advanced Biostatistics in Health Research

Hours 3

To assist the student in understanding and applying basic statistical concepts and procedures in health-related research.

HHE627 Multivariate Methods in Health Statistics

Hours 3

This courses will examine the appropriate use and implementation of multivariate methods for the analysis of data with multiple dependent and independent measures.

Prerequisite(s): HHE 626

HHE628 Qualitative Research Methods in Health Promotion

Hours 3

Approaches to designing qualitative research studies for the development and evaluation of public health programs. Emphasis is on the practice of collecting and analyzing data from individual interviews, focus group discussions, and observations.

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.