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, ATR 505, ATR 507 & 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, 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, ATR 511, ATR, 513, & 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, ATR 511, ATR 513, & ATR 520

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, ATR 509, ATR 513, & 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, ATR 509, ATR 511, & 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, ATR 525, ATR 531, ATR 533, ATR 540

ATR520 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 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, ATR 509, ATR 511, & 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 & ATR 530
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Description</th>
<th>Prerequisites</th>
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<tr>
<td>ATR525</td>
<td>Research in Athletic Training</td>
<td>1</td>
<td>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.</td>
<td>Prerequisite(s): ATR 500, ATR 503, ATR 505, ATR 507, ATR 509, ATR 510, ATR 511, ATR 513, ATR 517, ATR 520, ATR 530 &amp; ATR 535</td>
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<td>Prerequisite(s) with concurrency: ATR 519, ATR 521, ATR 531, ATR 533, &amp; ATR 540</td>
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<td>ATR530</td>
<td>Clinical Immersion I: Non-Sport Patient Care</td>
<td>2</td>
<td>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.</td>
<td>Prerequisite(s): ATR 500, ATR 503, ATR 505, ATR 507, ATR 509, ATR 510, ATR 511, ATR 513, ATR 517, ATR 520 &amp; ATR 535</td>
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<td>Prerequisite(s) with concurrency: ATR 519, ATR 521, ATR 525, ATR 531, &amp; ATR 533</td>
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<td>ATR531</td>
<td>Therapeutic Intervention IV: Pharmacology &amp; Behavioral Medicine</td>
<td>3</td>
<td>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.</td>
<td>Prerequisite(s): ATR 500, ATR 503, ATR 505, ATR 507, ATR 509, ATR 510, ATR 511, ATR 513, ATR 517, ATR 520 &amp; ATR 535</td>
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<td>Prerequisite(s) with concurrency: ATR 519, ATR 521, ATR 525, ATR 533, ATR 540</td>
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<tr>
<td>ATR533</td>
<td>Therapeutic Intervention V: Optimizing Patient Outcomes</td>
<td>2</td>
<td>The study of agents used in the prevention; examination, assessment and diagnosis; and intervention of acute and chronic illnesses and medical conditions.</td>
<td>Prerequisite(s): ATR 500, ATR 503, ATR 505, ATR 507, ATR 509, ATR 510, ATR 511, ATR 513, ATR 517 &amp; ATR 520, ATR 530 &amp; ATR 535</td>
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<td>Prerequisite(s) with concurrency: ATR 519, ATR 521, ATR 525, ATR 531, &amp; ATR 540</td>
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<tr>
<td>ATR535</td>
<td>Health Care Administration</td>
<td>3</td>
<td>Current theories, methods and techniques in the organization and administration of athletic training programs.</td>
<td>Prerequisite(s) with concurrency: ATR 500, ATR 503, ATR 505, ATR 510</td>
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<td>ATR540</td>
<td>Integration of Clinical Skills in Athletic Training III</td>
<td>1</td>
<td>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.</td>
<td>Prerequisite(s): ATR 500, ATR 503, ATR 505, ATR 507, ATR 509, ATR 510, ATR 511, ATR 513, ATR 517, ATR 520, ATR 530 &amp; ATR 535</td>
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<td>Prerequisite(s) with concurrency: ATR 519, ATR 521, ATR 525, ATR 531, &amp; ATR 533</td>
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<td>ATR545</td>
<td>Seminar in Athletic Training</td>
<td>2</td>
<td>Discussion of current issues in athletic training with an emphasis on the application of current research to the practice of athletic training.</td>
<td>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 &amp; ATR 540</td>
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<td>Prerequisite(s) with concurrency: ATR 541 &amp; ATR 550</td>
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<td>ATR550</td>
<td>Clinical Immersion II: Culminating Experience</td>
<td>2</td>
<td>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.</td>
<td>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 &amp; ATR 540</td>
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<td>Prerequisite(s) with concurrency: ATR 541 &amp; ATR 545</td>
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<td>ATR552</td>
<td>Seminar in Athl. Training</td>
<td>3</td>
<td>A review of historical developments in the field of athletic training with emphasis on current challenges in the profession.</td>
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<td>ATR558</td>
<td>Applied Rsrch in Athl. Tmg.</td>
<td>3</td>
<td>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.</td>
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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  
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  

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 and HHE 565 and 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 and 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, HHE 530, 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
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.

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.

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.

HHE603 Spec Projects In Healnt
SP
Hours 3
Experimental or analytical investigations of problems in health education. Arranged on an independent basis for doctoral students.

HHE604 Seminar In Health
SP
Hours 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.

HHE607 Advanced Biostatistics in Health Research
Hours 3
To assist the student in understanding and applying basic statistical concepts and procedures in health-related research.

HHE608 Qualitative Research Methods in Health Promotion
Hours 3
This course will examine the appropriate use and implementation of qualitative methods for the analysis of data with multiple dependent and independent measures.
Prerequisite(s): HHE 626

HHE626 Advanced Biostatistics in Health Research
Hours 3
This course provides an indepth analysis of evaluation and measurement techniques applied in health promotion and health education programs (HPE).

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.