



## Master of Science in Athletic Training Curriculum Plan (60 cr)



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### YEAR I

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#### SUMMER

##### **ATTR 650 Emergency Management (2 cr)**

Focus on evaluation and management of patients with acute conditions, including triaging conditions that are life threatening or otherwise emergent and could lead to sudden death. Course includes identification of risk factors and preparation of emergency action plans in collaboration with other health care and wellness professionals.

##### **ATTR 651 Clinical Education I (1 cr)**

An immersive supervised clinical experience in a healthcare setting integrating clinical competencies and clinical decision-making into patient centered evidence-based care.

##### **ATTR 660 Foundations of Athletic Training Practice (2 cr)**

Professional roles and responsibilities of the athletic trainer in healthcare; core competencies in healthcare; concepts of the disablement model; identifying and controlling risks to participants; concepts of best practice as applied to clinical problems.

##### **ATTR 661 Essential Clinical Skills (2 cr)**

Essential athletic training skills for application in various patient care settings; lab activities focus on the selection, fabrication and application of prophylactic, assistive, and restrictive devices. Basic musculoskeletal examination skills including patient history and documentation; skills related to conducting pre-participation examinations.

#### FALL

##### **ATTR 642 Clinical Decision Making and Evidence Based Practice I (1 cr)**

Application of the evidence-based approach to clinical practice and decision making based on real patient cases students encounter as part of clinical rotations in addition to simulated cases. Clinical competencies coordinated with concurrent courses to link theory into practice.

##### **ATTR 652 Clinical Education II (2 cr)**

Supervised clinical experience in a healthcare setting Integrating clinical competencies and clinical decision-making into patient centered evidence-based care.

##### **ATTR 662 Clinical Examination and Diagnosis-Lower Extremity and Spine (4 cr)**

Pathomechanics, clinical examination, diagnosis and appropriate medical referral of orthopedic injuries and other conditions to the lower extremity and spine. Cadaveric anatomy lab included.

##### **ATTR 668 Therapeutic Intervention I: Therapeutic Modalities (4 cr)**

Focuses on the study of theories and principles in the use of various therapeutic interventions to treat

injuries to the physically active. This course will also focus on the timing and healing phases as indicators of appropriate interventions and in relation to therapeutic modalities and therapeutic exercise to formulate injury care plans.

**ATTR 675 Evidence Based Practice and Clinical Research (3 cr)**

Principles and methods of research in athletic training practice to enhance clinical decision-making and problem-solving skills by implementing evidence-based practice methods, including defining clinical questions, searching the literature, critically appraising the literature, and implementing new treatment plans based on the latest evidence.

**SPRING**

**ATTR 643 Clinical Decision Making and Evidence Based Practice II (1 cr)**

Application of the evidence-based approach to clinical practice and decision making based on real patient cases students encounter as part of clinical rotations in addition to simulated cases. Clinical competencies coordinated with concurrent courses to link theory into practice.

**ATTR 653 Clinical Education III (2 cr)**

Supervised clinical experience in a healthcare setting integrating clinical competencies and clinical decision-making into patient centered evidence-based care.

**ATTR 664 Clinical Examination and Diagnosis-Upper Extremity, C-Spine and Head (4 cr)**

Pathomechanics, clinical examination, diagnosis and appropriate medical referral of orthopedic injuries and other conditions to the upper extremity, cervical spine and head. Cadaveric anatomy lab included.

**ATTR 671 Healthcare Administration, Management, and Delivery Strategies (3 cr)**

Administration and allocation of athletic training healthcare services and delivery strategies including informatics, risk management, communication, quality improvement, and policy/procedures of healthcare systems. Resource acquisition, budgetary models, and financial considerations will be examined.

**ATTR 676 Performance Enhancement in Sport (3 cr)**

This course focuses on the development of comprehensive programs that are safe and effective to minimize injury and maximize sport performance and overall health. Emphasis on fluids and nutrients, strength training and conditioning, functional movement screening as well as the selection and use of biometrics and physiological monitoring systems.

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**YEAR 2**

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**SUMMER**

**ATTR 654 Clinical Education IV (2 cr)**

An immersive supervised clinical experience in a healthcare setting integrating clinical competencies and clinical decision-making into patient centered evidence-based care.

**STAT 651 Statistics online (3 cr)**

A non-calculus exposition of the concepts, methods and usage of statistical data analysis; including t tests, analysis of variance, and linear regression. This class is intended for graduate students in disciplines other than Statistics.

## **FALL**

### **ATTR 645 Corrective Techniques and Progressive Exercise for Return to Function (1 cr)**

Focus on corrective techniques to restore movement patterns; development of sequential and progressive rehabilitation programs for return to function.

### **ATTR 655 Clinical Education V (2 cr)**

Supervised clinical experience in a healthcare setting integrating clinical competencies and clinical decision-making into patient centered evidence-based care.

### **ATTR 666 Therapeutic Intervention II: Therapeutic Exercise (4 cr)**

The study of physical rehabilitation theory and techniques used as a therapeutic intervention for orthopedic injuries and conditions.

### **ATTR 670 General Medical Conditions and Therapeutic Medication (2 cr)**

Pathophysiology, assessment, and appropriate intervention and referral for general medical conditions and disabilities; common diagnostic tests and imaging assessment tools including commonly used therapeutic medications.

### **ATTR 673 Therapeutic Intervention III: Manual Therapy in Athletic Training (2 cr)**

Manual therapy theory and techniques used as a therapeutic intervention for orthopedic injuries and conditions; indications and contradictions for the use of manual therapy; skill development in soft tissue assessment; application of manual and tool assisted techniques.

### **ATTR 674 Behavioral Health (1 cr)**

Focus on evidence-based, culturally competent care within the scope of practice for athletic trainers to identify, manage, and appropriately refer patients with behavioral health problems. Emphasis on developing policies and procedures, available resources, and interprofessional collaboration.

## **SPRING**

### **ATTR 646 Transition to Practice (1 cr)**

Culmination and integration of all previous clinical courses in preparation to transition to practice; fulfillment of athletic training domains and competencies.

### **ATTR 656 Clinical Education VI (2 cr)**

Supervised clinical experience in a healthcare setting integrating clinical competencies and clinical decision-making into patient centered evidence-based care.

### **ATTR 672 Professional Preparation and Issues in Athletic Training (3 cr)**

Knowledge and skills for successful pursuit of athletic training credentials, employment and continuing professional competencies; emphasis on current topics and issues contributing to the professional preparation of athletic training.

### **ATTR 677 Research Capstone (3 cr)**

Students conduct faculty-supervised small group research projects including formulating a research question, research design, data collection, data analysis and manuscript preparation. All students will participate in presenting their project at a formal graduate research colloquium.