

# Master of Athletic Training (MAT)

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## **MAT 6001. Integrated Clinical Experience I. 1.5 Hour.**

This course provides comprehensive educational experiences in the Educational Competencies and Clinical Integration Proficiency to be supervised/ mentored in multiple Clinical Integration sections through athletic training clinical experiences (240 hours/semester). The course is in accordance with the Commission on Accreditation of Athletic Training Education (CAATE) standards that provides for the opportunity to complete a required clinical experience contained in a class, over two academic years. This course is the first of 5 clinical courses required for the MAT degree program. **\*\*\*COURSE LEARNING OUTCOMES (CLOs)\*\*\*** At the successful conclusion of this course students will: 1. Demonstrate the ability to interact with other medical and health care personnel. 2. Apply knowledge, skills, and abilities, learned previously in the classroom, in a practical setting. 3. Gain increasing amounts of clinically supervised experiences leading to autonomous clinical practice upon graduation. FA.

## **MAT 6002. Integrated Clinical Experience II. 1.5 Hour.**

This course provides comprehensive educational experiences in the Educational Competencies and Clinical Integration Proficiency to be supervised/ mentored in multiple Clinical Integration sections through athletic training clinical experiences (240 hours/semester). The course is in accordance with the Commission on Accreditation of Athletic Training Education (CAATE) standards that provides for the opportunity to complete a required clinical experience contained in a class, over two academic years. This course is the second of 5 clinical courses required for the MAT degree program. **\*\*COURSE LEARNING OUTCOMES (CLOs)\*\*** At the successful conclusion of this course students will: 1. Demonstrate the ability to interact with other medical and health care personnel. 2. Apply knowledge, skills, and abilities, learned previously in the classroom, in a practical setting. 3. Gain increasing amounts of clinically supervised experiences leading to autonomous clinical practice upon graduation. SP.

## **MAT 6003. Integrated Clinical Experience III. 0.5 Hours.**

This course provides comprehensive educational experiences in the Educational Competencies and Clinical Integration Proficiency to be supervised/ mentored in multiple Clinical Integration sections through athletic training clinical experiences (70 hours/semester). The course is in accordance with the Commission on Accreditation of Athletic Training Education (CAATE) standards that provides for the opportunity to complete a required clinical experience contained in a class, over two academic years. This course is the third of 5 clinical courses required for the MAT degree program. **\*\*\*COURSE LEARNING OUTCOMES (CLOs)\*\*\*** At the successful conclusion of this course students will: 1. Demonstrate the ability to interact with other medical and health care personnel. 2. Apply knowledge, skills, and abilities, learned previously in the classroom, in a practical setting. 3. Gain increasing amounts of clinically supervised experiences leading to autonomous clinical practice upon graduation. SU.

## **MAT 6004. Integrated Clinical Experience IV. 2.5 Hours.**

This course provides comprehensive educational experiences in the Educational Competencies and Clinical Integration Proficiency to be supervised/ mentored in multiple Clinical Integration sections through athletic training clinical experiences (400 hours per semester). The course is in accordance with the Commission on Accreditation of Athletic Training Education (CAATE) standards that provides for the opportunity to complete a required clinical experience contained in a class, over two academic years. This course is the fourth of 5 clinical courses required for the MAT degree program. **\*\*COURSE LEARNING OUTCOMES (CLOs)\*\*** At the successful conclusion of this course students will: 1. Demonstrate the ability to interact with other medical and health care personnel. 2. Apply knowledge, skills, and abilities, learned previously in the classroom, in a practical setting. 3. Gain increasing amounts of clinically supervised experiences leading to autonomous clinical practice upon graduation. FA.

## **MAT 6005. Integrated Clinical Experience V. 2.5 Hours.**

This course provides comprehensive educational experiences in the Educational Competencies and Clinical Integration Proficiency to be supervised/ mentored in multiple Clinical Integration sections through athletic training clinical experiences (400 hours/semester). The course is in accordance with the Commission on Accreditation of Athletic Training Education (CAATE) standards that provides for the opportunity to complete a required clinical experience contained in a class, over two academic years. This course is the fifth of 5 clinical courses required for the MAT degree program. **\*\*COURSE LEARNING OUTCOMES (CLOs)\*\*** 1. Demonstrate the ability to interact with other medical and health care personnel. 2. Apply knowledge, skills, and abilities, learned previously in the classroom, in a practical setting. 3. Gain increasing amounts of clinically supervised experiences leading to autonomous clinical practice upon graduation. SP.

## **MAT 6030. Acute Care in Athletic Training. 3 Hours.**

The theory, ethics, components, indications, and psychomotor skills of emergency care in athletic training. Evidence-based research and practices are explored in relation to standard practices. **\*\*COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: CLO 1. Apply evidence-based principles to deliver athletic training acute and emergent care services effectively. CLO 2. Evaluate and manage patients with acute conditions, including prioritizing life-threatening or emergent cases. These conditions encompass (but are not limited to) the following: Cardiac Compromise, respiratory compromise, Environmental Conditions, Cervical Spine Compromise, Traumatic Brain Injury, Internal and External Hemorrhage, Fracture and Dislocation, Anaphylaxis, Exertional Sickling/ Rhabdomyolysis/ Hyponatremia, Diabetes, Drug Overdose, Wounds, Testicular Injury, other MSK conditions. CLO 3. Educate clients/patients on the principles of fluid and nutrient intake in preparation for activity, during activity, and during recovery, taking into account various activities and environmental conditions. Additionally, formulate recommendations for them based on their specific needs and circumstances. CLO 4. Assess and appraise environmental conditions systematically to determine the appropriateness of initiating, discontinuing, or adjusting activity, with the primary goal of preventing environmental illness or injury. CLO 5. Modify the diagnostic examination process according to the demands of the situation and patient responses. Prerequisite: Admission to the Utah Tech Professional Master's in Athletic Training program. SU.

**MAT 6032. Acute Care Clinical Skills. 1 Hour.**

Didactic and psychomotor skill instruction with practical examinations covering the material taught in Advanced Acute Care in Athletic Training Lecture AT 6030. **\*\*COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: CLO 1. Demonstrate proficiency in applying evidence-based guidelines when providing care for various acute conditions, prioritizing life-threatening cases. CLO 2. Assess and prioritize patient cases involving acute conditions; provide appropriate care and demonstrate the ability to handle diverse medical scenarios. CLO 3. Educate clients/patients on the principles of fluid and nutrient intake before, during, and after physical activity, considering various activities and environmental conditions. Additionally, provide tailored recommendations based on their unique needs. CLO 4. Systematically assess environmental conditions to determine the suitability for initiating, discontinuing, or adjusting physical activity, with the primary goal of preventing environmental illness or injury. CLO 5. Modify the diagnostic examination process based on the demands of the situation and the responses of the patient, ensuring the delivery of optimal healthcare. Prerequisites: Admission to the Utah Tech Professional Master's in Athletic Training program. SU.

**MAT 6060. Athletic Training Organization and Professional Responsibility. 3 Hours.**

Theoretical and practical study of organization, administration, professional development and responsibility in the field of Athletic Training. **\*\*COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: CLO 1. Demonstrate an understanding of the key principles of athletic training organization and professional responsibility, including ethical considerations and legal obligations. CLO 2. Interpret the importance of ethical conduct and professional responsibility in athletic training, recognizing the impact on athlete well-being. CLO 3. Apply established ethical guidelines and professional responsibilities in athletic training settings to make ethical decisions and prioritize athlete welfare. CLO 4. Analyze the role of athletic trainers in the context of organizational and legal frameworks, including compliance with relevant regulations and policies. CLO 5. Develop comprehensive strategies for athlete care that integrate professional responsibilities, ethical considerations, and organizational policies. Prerequisite: Admission to the Utah Tech Professional Master's in Athletic Training program. SP.

**MAT 6070. Therapeutic Interventions I. 3 Hours.**

Advanced study of the effects, advantages, disadvantages, indications, contraindications, precautions, and the application parameters of therapeutic interventions of the physically active. **\*\*COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: CLO 1. Recall and identify the various therapeutic modalities used in athletic training, including heat, cold, electrical stimulation, ultrasound, and traction. CLO 2. Explain the physiological effects of therapeutic modalities on tissues and the body's natural healing processes. Understand the principles of heat transfer, tissue response, and contraindications for each modality. CLO 3. Demonstrate the correct application of therapeutic modalities in a clinical setting. Perform safe and effective techniques for administering heat, cold, electrical stimulation, ultrasound, and traction based on patient needs and diagnoses. CLO 4. Evaluate patient conditions and select appropriate therapeutic modalities based on individual needs, contraindications, and treatment goals. Analyze patient responses to modalities and adjust as necessary. CLO 5. Develop comprehensive treatment plans that incorporate therapeutic modalities as integral components. Create evidence-based strategies for integrating modalities into athletic training programs, considering patient-specific goals and conditions. Prerequisite: Admission to the Utah Tech Professional Master's in Athletic Training program. FA.

**MAT 6072. Therapeutic Intervention I Clinical Skills. 1 Hour.**

Didactic and psychomotor skill instruction with practical examinations covering the material taught in the Therapeutic Interventions I course. **\*\*COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: CLO 1. Apply various therapeutic modalities, including heat, cold, electrical stimulation, ultrasound, and traction, demonstrating proficiency in their use. CLO 2. Analyze clinical scenarios to make informed decisions about the selection and sequencing of therapeutic modalities. They will assess patient conditions, clinical diagnoses, and treatment goals to determine the most appropriate interventions. CLO 3. Adapt therapeutic modalities to meet the specific needs of diverse patient populations, integrating factors like age, injury type, and comorbidities into their treatment plans. CLO 4. Critically evaluate patient responses to therapeutic modalities, identifying signs of improvement, complications, or contraindications. They will make data-driven adjustments to treatment plans as needed. CLO 5. Demonstrate a strong understanding of the ethical considerations and safety protocols associated with therapeutic modality application. They will prioritize professional standards and patient well-being in their practice. Prerequisites: Admission to the Utah Tech Professional Master's in Athletic Training program. FA.

**MAT 6080. Therapeutic Interventions II. 3 Hours.**

Advanced study of the effects, advantages, disadvantages, indications, contraindications, precautions, and the application parameters of therapeutic interventions of the physically active. **\*\*COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: CLO 1. Integrate patient education and self-care programs into the care process, aiming to encourage active participation from patients, as well as their families and friends, in their own care and recovery. CLO 2. Apply the International Classification of Functioning, Disability, and Health (ICF) as a framework in the implementation of patient care and the facilitation of communication regarding patient care. CLO 3. Apply evidence-based principles to deliver athletic training services effectively. CLO 4. Create an individualized care plan for each patient. CLO 5. Choose and integrate appropriate interventions for patients in various stages, including pre-op, post-op, and those with nonsurgical conditions, aligning them with the established care plan. CLO 6. Design, execute, and oversee all-encompassing programs aimed at optimizing sport performance. These programs must prioritize safety and specificity, tailoring them to the unique requirements of the client's chosen activity. Prerequisite: Admission to the Utah Tech Professional Master's in Athletic Training program. SP.

**MAT 6082. Therapeutic Interventions II Clinical Skills. 1 Hour.**

Didactic and psychomotor skill instruction with practical examinations covering the material taught in MAT 6080. **\*\*COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: CLO 1. Describe the fundamental principles of ergonomics and their significance in preventing illness and injury. CLO 2. Develop therapeutic interventions aligned with specific treatment goals based on patient assessments and clinical knowledge. CLO 3. Explain the correct techniques and procedures for instructing patients in rehabilitative exercises, considering their individual needs and conditions. CLO 4. Assess and interpret immediate patient responses following an intervention to determine its effectiveness in achieving therapeutic goals. CLO 5. Design and integrate patient education and self-care programs that actively engage not only patients but also their families and friends in the rehabilitation process, fostering a collaborative approach to care and recovery. Prerequisite: Admission to the Utah Tech Professional Master's in Athletic Training program. SP.

**MAT 6100. Clinical Anatomy. 3 Hours.**

Didactic and psychomotor skills instruction with practical examinations covering the material necessary to begin the athletic training clinical experience, and clinical anatomy of the human body including palpation, range of motion, neurological testing, and structure identification and function. **\*\*COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: 1. Define key anatomical and kinesiological terms. 2. Identify, palpate, & describe specific aspects of the human skeletal system, including the types of joints in the body. 3. Identify, palpate, and describe anatomical components & basic physiological processes of the human muscular system. 4. Demonstrate a basic functional understanding of biomechanics as they relate to human movement. 5. Identify and describe the anatomical movements of the spine and the extremities. 6. Perform correct goniometric measurements at each joint. Prerequisite: Admission to the Utah Tech Professional Master's in Athletic Training program. SU.

**MAT 6130. General Medical Assessment and Referral. 3 Hours.**

Study of general medical conditions and disabilities commonly seen by certified athletic trainers. **\*\*COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: CLO 1. Demonstrate an understanding of the key principles of general medical assessment and the importance of timely referrals for appropriate medical care. CLO 2. Interpret the significance of effective communication in the context of general medical assessment and identify various stakeholders with whom healthcare professionals must communicate for referrals. CLO 3. Apply evidence-based medical assessment techniques to evaluate a patient's medical condition and determine the necessity for a referral to a specialist. CLO 4. Analyze the principles of medical informatics and their role in the administration and delivery of healthcare, including the use of data for informed decision-making. CLO 5. Develop a comprehensive care plan for patients, integrating medical assessments, referral considerations, and a plan for ongoing monitoring and follow-up. Prerequisite: Admission to the Utah Tech Professional Master's in Athletic Training program. FA.

**MAT 6150. Athletic Training Clinical Skills. 2 Hours.**

Didactic and psychomotor skills instruction with practical examinations covering the material necessary to begin the athletic training clinical experience. **\*\*COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: CLO 1. Evaluate the influence of health literacy and social determinants of health on patient care and outcomes, leading to the formulation of healthcare strategies that empower patients and enhance results. CLO 2. Demonstrate effective and appropriate communication skills with clients/patients, family members, coaches, administrators, other health care professionals, consumers, payors, policy makers, and other stakeholders. CLO 3. Apply patient interview skills to obtain a thorough medical history that includes the pertinent past medical history, underlying systemic disease, use of medications, the patient's perceived pain, and the history and course of the present condition. CLO 4. Create or adapt prophylactic, assistive, and restrictive devices, materials, and techniques, such as durable medical equipment, orthotic devices, taping, splinting, protective padding, and casting, as part of the care plan. CLO 5. Execute the selection, fitting, and removal of protective equipment to reduce the likelihood of injury or reinjury. Prerequisite: Admission to the Utah Tech Master's in Athletic Training program. SU.

**MAT 6201. Foundations of Clinical AT Care I. 0.5 Hours.**

This course provides opportunity for students to learn, practice, and achieve competency in basic AT skills including but not limited to Acute & Emergency Care, Introduction to concussion assessment, medical documentation, prophylactic taping/padding, bracing, casting and wound care. **\*\*\*COURSE LEARNING OUTCOMES (CLOs)\*\*** At the successful conclusion of this course students will: CLO 1. Demonstrate how to develop a therapeutic relationship supporting patients' rights, dignity, autonomy, and cultural preferences using the athletic trainer's knowledge, skills, attitudes, and experiences to facilitate dynamic, goal-oriented care individually designed to meet the needs of patients and families when performing basic athletic training skills. CLO 2. Begin to Apply their own cognition skills and ability to work with others when performing basic Athletic Training skills. CLO 3. Demonstrate the skills necessary to maintain therapeutic communication with patients and families as well as other members of the health care team by utilizing informatics, verbal, and non-verbal means when performing basic athletic training skills. CLO 4. Identify how diverse cultural, ethnic, and social backgrounds function as sources of patient and family values and how to provide basic athletic training care skills that respect those differences. CLO 5. Demonstrate the ethical and legal parameters to ensure adherence to standards of athletic training practice, health policy, and quality improvement measures while performing basic athletic training skills. FA.

**MAT 6202. Foundation of Clinical AT Care II. 0.5 Hours.**

This course provides opportunity for students to learn, practice, and achieve competency in basic AT skills including but not limited to integration of therapeutic agents and manual therapy techniques in AT. \*\*\*COURSE LEARNING OUTCOMES (CLOs)\*\* At the successful conclusion of course students will: 1. Demonstrate how to develop a therapeutic relationship supporting patient's rights, dignity, autonomy, and cultural preferences using the athletic trainers knowledge, skills, attitudes, and experiences to facilitate dynamic, goal-oriented care individually designed to meet the needs of patients and families when performing basic athletic training skills. 2. Begin to utilize their own cognition skills and ability to work with others when performing basic Athletic Training skills. 3. Demonstrate the skills necessary to maintain therapeutic communication with patients and families as well as other members of the health care team by utilizing informatics, verbal, and non-verbal means when performing basic athletic training skills. 4. Identify how diverse cultural, ethnic, and social backgrounds function as sources of patient and family values and how to provide basic athletic training care skills which respects those differences. 5. Exhibit the ethical and legal parameters to ensure adherence to standards of athletic training practice, health policy and quality improvement measures while performing basic athletic training skills. SP.

**MAT 6203. Foundations of Clinical AT Care III. 0.5 Hours.**

This course provides opportunity for students to learn, practice, and achieve competency in more advanced AT skills including but not limited to Quality Assurance/Improvement in health care, Interprofessional Practice, and Professional Topics in AT. \*\*\*COURSE LEARNING OUTCOMES (CLOs) \*\* At the successful conclusion of this course students will: 1. Demonstrate how to develop a therapeutic relationship supporting patient's rights, dignity, autonomy, and cultural preferences using the athletic trainers knowledge, skills, attitudes, and experiences to facilitate dynamic, goal-oriented care individually designed to meet the needs of patients and families when performing basic athletic training skills. 2. Begin to utilize their own cognition skills and ability to work with others when performing basic Athletic Training skills. 3. Demonstrate the skills necessary to maintain therapeutic communication with patients and families as well as other members of the health care team by utilizing informatics, verbal, and non-verbal means when performing basic athletic training skills. 4. Identify how diverse cultural, ethnic, and social backgrounds function as sources of patient and family values and how to provide basic athletic training care skills which respects those differences. 5. Exhibit the ethical and legal parameters to ensure adherence to standards of athletic training practice, health policy and quality improvement measures while performing basic athletic training skills. SU.

**MAT 6204. Foundations of Clinical AT Care IV. 0.5 Hours.**

This course provides opportunity for students to learn, practice, and achieve competency in basic AT skills including but not limited to transition to clinical practice, Orthopedic Assessment of Upper/Lower extremity and Head/Spine. \*\*\*COURSE LEARNING OUTCOMES (CLOs) \*\*\* At the successful conclusion of the course students will: 1. Demonstrate how to develop a therapeutic relationship supporting patient's rights, dignity, autonomy, and cultural preferences using the athletic trainers knowledge, skills, attitudes, and experiences to facilitate dynamic, goal-oriented care individually designed to meet the needs of patients and families when performing basic athletic training skills. 2. Begin to utilize their own cognition skills and ability to work with others when performing basic Athletic Training skills. 3. Demonstrate the skills necessary to maintain therapeutic communication with patients and families as well as other members of the health care team by utilizing informatics, verbal, and non-verbal means when performing basic athletic training skills. 4. Identify how diverse cultural, ethnic, and social backgrounds function as sources of patient and family values and how to provide basic athletic training care skills which respects those differences. 5. Exhibit the ethical and legal parameters to ensure adherence to standards of athletic training practice, health policy and quality improvement measures while performing basic athletic training skills. FA.

**MAT 6205. Foundations of Clinical AT Care V. 0.5 Hours.**

This course provides opportunity for students to learn, practice, and achieve competency in basic AT skills including but not limited to General Medical assessment, Mental Health Interventions and patient simulations. \*\*\*COURSE LEARNING OUTCOMES (CLOs)\*\*\* At the successful conclusion of this course students will 1. Demonstrate how to develop a therapeutic relationship supporting patient's rights, dignity, autonomy, and cultural preferences using the athletic trainers knowledge, skills, attitudes, and experiences to facilitate dynamic, goal-oriented care individually designed to meet the needs of patients and families when performing basic athletic training skills. 2. Begin to utilize their own cognition skills and ability to work with others when performing basic Athletic Training skills. 3. Demonstrate the skills necessary to maintain therapeutic communication with patients and families as well as other members of the health care team by utilizing informatics, verbal, and non-verbal means when performing basic athletic training skills. 4. Identify how diverse cultural, ethnic, and social backgrounds function as sources of patient and family values and how to provide basic athletic training care skills which respects those differences. 5. Exhibit the ethical and legal parameters to ensure adherence to standards of athletic training practice, health policy and quality improvement measures while performing basic athletic training skills. SP.

**MAT 6210. Pathoetiology & Orthopaedic Assessment I. 3 Hours.**

In-depth study of pathological, etiological, and neuromuscular mechanisms of musculoskeletal injuries with emphasis on advanced orthopaedic assessment techniques of the upper body. \*\*COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: CLO 1. Recall and explain the diagnostic accuracy concepts, including reliability, sensitivity, specificity, likelihood ratios, prediction values, and pre-test and post-test probabilities, in the context of selecting and interpreting physical examination and diagnostic procedures. CLO 2. Apply clinical prediction rules, such as the Ottawa Ankle Rules, during clinical examination procedures to help make accurate diagnostic decisions. CLO 3. Differentiate between the initial injury evaluation and follow-up/reassessment processes to assess the effectiveness of a patient's treatment/rehabilitation program and make necessary adjustments to the patient's program. CLO 4. Utilize clinical reasoning skills to critically analyze patient presentations and formulate appropriate clinical diagnoses for common illnesses, diseases, and orthopedic injuries/conditions. CLO 5. Demonstrate the ability to refer patients to other healthcare providers when their condition necessitates specialized care or intervention, incorporating clinical judgment and patient-centered decision-making. Prerequisite: Admission to the Utah Tech Professional Master's in Athletic Training program. FA.

**MAT 6215. Pathoetiology and Orthopedic Assessment I Clinical Skills. 1 Hour.**

Didactic and psychomotor skill instruction with practical examinations covering the material taught in the Pathoetiology and Orthopedic Assessment I course. **\*\*COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: CLO 1. Recall and describe the standard techniques and procedures used in the clinical examination of common injuries, conditions, illnesses, and diseases, including history taking, inspection/observation, palpation, functional assessment, selective tissue testing techniques/special tests, and neurological assessments. CLO 2. Understand the rationale behind the utilization of specific clinical examination techniques in the assessment of patients, including the importance of each method and its contribution to the overall evaluation process. CLO 3. Apply standard techniques and procedures for clinical examination when conducting a physical assessment of a patient with a clinical presentation, demonstrating proficiency in history taking, inspection, palpation, functional assessment, selective tissue testing techniques, and neurological assessments. CLO 4. Analyze and interpret the findings obtained from a physical examination conducted based on the patient's clinical presentation, discerning relevant information to formulate an initial assessment of the patient's condition. CLO 5. Evaluate the effectiveness of the clinical examination process in providing insights into the patient's health status and making informed decisions about potential further assessments, interventions, or referrals based on the examination findings. Prerequisite: Admission to the Utah Tech Professional Master's in Athletic Training program. FA.

**MAT 6220. Pathoetiology & Orthopaedic Assessment II. 3 Hours.**

In-depth study of pathological, etiological, and neuromuscular mechanisms of musculoskeletal injuries with emphasis on advanced orthopaedic assessment techniques of the lower body. **\*\*COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: CLO 1. Demonstrate a comprehensive understanding of the pathological, etiological, and neuromuscular mechanisms underlying musculoskeletal injuries in the lower body. CLO 2. Explain the complex interactions among pathological factors, etiological factors, and neuromuscular mechanisms in the context of lower body musculoskeletal injuries. CLO 3. Apply advanced orthopaedic assessment techniques specifically designed for the lower body to identify and diagnose musculoskeletal injuries accurately. CLO 4. Analyze and evaluate the collected data and assessment findings to formulate comprehensive and precise assessments of lower body musculoskeletal injuries. CLO 5. Develop advanced diagnostic and treatment strategies based on an in-depth understanding of the pathological, etiological, and neuromuscular mechanisms of musculoskeletal injuries in the lower body, ensuring optimal patient care and outcomes. Prerequisite: Admission to the Utah Tech Professional Master's in Athletic Training program. SP.

**MAT 6225. Pathoetiology and Orthopedic Assessment II Clinical Skills. 1 Hour.**

Didactic and psychomotor skill instruction with practical examinations covering the material taught in conjunction with the Pathoetiology and Orthopedic Assessment II course. **\*\*COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: CLO 1. Recall and describe the standard techniques and procedures used in the clinical examination of common injuries, conditions, illnesses, and diseases, including history taking, inspection/observation, palpation, functional assessment, selective tissue testing techniques/special tests, and neurological assessments. CLO 2. Explain the significance of assessing and interpreting physical examination findings based on the patient's clinical presentation, understanding the relationship between clinical signs and underlying health conditions. CLO 3. Apply the standard techniques and procedures for clinical examination to assess patients with common injuries, conditions, illnesses, and diseases, demonstrating proficiency in history taking, inspection, palpation, functional assessment, selective tissue testing, and neurological assessments. CLO 4. Analyze and interpret the collected clinical examination findings to formulate a comprehensive assessment of the patient's condition, considering the potential implications for diagnosis and treatment. CLO 5. Develop the ability to advocate for the health needs of clients, patients, communities, and populations by promoting their interests and well-being, utilizing evidence-based principles to inform practice, creating individualized care plans, and conducting comprehensive examinations for patients with a wide range of health conditions seen in athletic training practice. Prerequisites: Admission to the Utah Tech Professional Master's in Athletic Training program. SP.

**MAT 6250. Preventative Health Techniques. 3 Hours.**

Theoretical and practical study of strategies and programs to prevent the incidence and/or severity of injuries, illnesses and cardiovascular disease and optimize patients' overall health and quality of life. This includes assessment of health status, level of physical fitness and implementation of nutritional support and physical activity in maintaining a healthy lifestyle and preventing chronic disease. **\*\*COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: CLO 1. Demonstrate an understanding of the key principles and components of patient advocacy, including its role in promoting health and access to healthcare. CLO 2. Interpret the importance of effective communication in healthcare and identify various stakeholders with whom healthcare professionals must communicate. CLO 3. Apply the International Classification of Functioning, Disability, and Health (ICF) framework to analyze patient care and develop a patient care plan. CLO 4. Analyze the principles of health informatics and their role in the administration and delivery of patient care. CLO 5. Develop a comprehensive patient care plan, integrating assessment, patient goals, and clinical outcome measures. Prerequisite: Admission to the Utah Tech Professional Master's in Athletic Training program. SU.

**MAT 6260. Orthopedic Surgical Interventions. 3 Hours.**

Study of orthopaedic surgical interventions commonly performed for musculoskeletal injuries suffered by the physically active. **\*\*COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: 1. Identify, review, discuss, and reinforce the overall surgical process, from patient history to anesthesiology to recovery. 2. Identify, review, discuss, and reinforce the surgical interventions and techniques for the most prevalent orthopaedic conditions of the physically active. 3. Identify, review, discuss, and reinforce the current treatment options for common non-orthopaedic conditions requiring physician referral. 4. Locate, comprehend, and critique peer-reviewed literature describing the outcomes of surgical interventions and techniques for the most prevalent orthopaedic conditions of the physically active. 5. Describe and discuss surgical procedures (condition, anatomy, procedure, recovery) observed during surgical rotations. Prerequisite: Admission to the Utah Tech Professional Master's in Athletic Training program. SP.



**MAT 6275. Mental Health Care in AT Practice. 3 Hours.**

This course promotes the understanding of mental health care as it relates to athletic training practice and the coordination of care as it pertains to athletic training patients. The focus of this course includes the understanding of mental health disorders, diagnostic criteria, appropriate referral to qualified health care providers, and treatment options. The course will also address patient response to orthopedic injury and its interdependent relationship with activity limitations and participation restrictions. **\*\*COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: 1. Identify and describe the signs, symptoms, physiological, and psychological responses of clients/patients with disordered eating or eating disorders. 2. Describe the method of appropriate management and referral for clients/patients with disordered eating or eating disorders in a manner consistent with current practice guidelines. 3. Describe the role of various mental healthcare providers (e.g., psychiatrists, psychologists, counselors, social workers) that may comprise a mental health referral network. 4. Identify and describe the basic signs and symptoms of mental health disorders (e.g., psychosis, neurosis; sub-clinical mood disturbances (e.g., depression, anxiety); and personal/social conflict (e.g., adjustment to injury, family problems, academic or emotional stress, personal assault or abuse, sexual assault or harassment) that may indicate the need for referral to a mental healthcare professional. 5. Formulate a referral for an individual with a suspected mental health or substance abuse problem. Prerequisite: Admission to the Utah Tech Professional Master's in Athletic Training program. FA.