**ATHLETIC TRAINING (MSAT)**

**MSAT 501. Manual Based Exam & Treatment. (3 Credits)**
will familiarize the student with the theory, skills, and clinical applications of various forms of manual soft tissue examination and treatment. The manual therapy techniques that this course will focus on include Graston Technique, muscle energy techniques, joint mobilization, trigger point therapy and myofascial release techniques, cupping, and Kinesio-tape. All skills will be demonstrated and practiced in a hands-on lab environment. 3 credits.

*Prerequisite: fourth year Athletic Training Student with previous background in clinical patient care or consent of instructor.*

Offered at: CUW

**MSAT 510. Pathophys, Pharm & Gen Med. (4 Credits)**
is designed to provide the learner with information regarding diseases and conditions addressed in the profession of athletic training. Classroom and laboratory experiences will encompass classroom exercises addressing illness/condition recognition, assessment, differential diagnosis, referral, and treatment of a variety of different patient populations. The course will examine pharmaceutical drug applications, interactions, and their value to the injury-healing process and athletic performance. 3 credits.

*Prerequisite: fifth year Athletic Training Student.*

Offered at: CUW

**MSAT 512. General Medical Conditions Assessment & Diagnosis. (3 Credits)**

Offered at: CUAA

**MSAT 520. Basic Stats for Athletic Train. (3 Credits)**
is designed to help athletic trainers acquire skills related to consuming research. Fundamental scientific inquiry skills related to searching electronic data bases, reading, understanding, and appraising the athletic training research literature for the purpose of evidence-based practice is emphasized. Students are exposed to basic concepts of research methodology and a review of conceptually-based statistics that further enhances skills with consuming the scientific literature. Students will practice reading and critiquing professional literature. 3 credits.

*Prerequisite: None*

Offered at: CUW

**MSAT 530. Psychosocial Aspects of AT. (3 Credits)**
is designed to define the role of the Athletic Trainer within the psychosocial aspect of athletic injuries. Beyond the recognition of common psychological stressors associated with the athletic population, this course will analyze and critically assess the psychosocial ramifications of athletic injuries. Discussion on the impact of the athlete’s psyche as it relates to injury, rehabilitation and return to play will be addressed with a focus on educating the athlete and athletic training professional through this process. 3 credits.

*Prerequisite: None*

Offered at: CUAA, CUW

**MSAT 540. Applied Kinesiology. (3 Credits)**
is an examination of human movement mechanics in applied settings. Focus will be placed on functional assessment, training and conditioning, rehabilitation, and injury prevention. Advanced application of arthrokinematics, musculoskeletal function, and relative biomechanics as they relate to evidenced based science will be the focus of class content. 3 credits.

*Prerequisite: None*

Offered at: CUW

**MSAT 541. Athletic Training Seminar. (1 Credit)**

Offered at: CUAA

**MSAT 542. Clinical Education I. (2 Credits)**

Offered at: CUAA

**MSAT 543. Clinical Education II. (2 Credits)**

Offered at: CUAA

**MSAT 544. Clinical Education III. (3 Credits)**

Offered at: CUAA

**MSAT 545. Clinical Education IV. (3 Credits)**

Offered at: CUAA

**MSAT 546. Clinical Education V. (3 Credits)**

**MSAT 547. Clinical Education VI. (3 Credits)**

**MSAT 551. Orth Assess/Mgmt of LE. (3 Credits)**

Offered at: CUAA

**MSAT 552. Orth As/Mgmt-UE/Head/Neck/Spn. (3 Credits)**

Offered at: CUAA

**MSAT 553. Therapeutic Mod for Ath Inj. (3 Credits)**

Offered at: CUAA

**MSAT 554. Palp & Func Anatomy for ATs. (3 Credits)**

Offered at: CUAA

**MSAT 555. Therapeutic Exercise. (3 Credits)**

Offered at: CUAA

**MSAT 556. Acute Emerg Care of Ath Inj. (3 Credits)**

Offered at: CUAA

**MSAT 557. Advanced Injury Managment. (3 Credits)**

Offered at: CUAA

**MSAT 558. Pharmacology. (3 Credits)**

Offered at: CUAA

**MSAT 559. Admin & Organization of AT. (3 Credits)**

Offered at: CUAA

**MSAT 569. Research Methods. (3 Credits)**
provides an examination of the research methods commonly used to design, implement and evaluate research in athletic training. The course includes the study of descriptive, quantitative and qualitative research methods, as well as techniques of literature review and reporting of research. Students completing this course should have a draft of a research proposal that can be used for a thesis. 3 credits.

*Prerequisite: None*

Offered at: CUAA, CUW
MSAT 570. Internship Athletic Training. (1-6 Credits)
is designed to expose students to various aspects involved with health
care and rehabilitation in either a clinical or non-clinical setting. Although
the student is only at the pre-professional level, he/she can be involved
in the observation, assistance, and discussion of patients' treatment and
care, as the experienced professional deems appropriate. 3 credits.
Prerequisite: None

Offered at: CUW

MSAT 571. Adv Pract & Admin in Ath Train. (3 Credits)
will prepare students for advanced practice and administrative roles
in the athletic training field. It will explore organizational structure
and employment considerations at the University, Clinic/Hospital, and
Outreach settings. This course will prepare the student for assuming
administrative roles and managing resources as well as explore the
facets of teaching and mentoring students and young professionals in
the athletic training field. 3 credits.
Prerequisite: None

Offered at: CUW

MSAT 572. Adv Musculoskeletal Anatomy. (3 Credits)
is designed for students seeking to gain a higher level understanding
of human anatomy. The course will provide a comprehensive review of
human cadaver anatomy for health professionals. Major muscles, skin,
bones and joints, internal organs, blood vessels, the brain, spinal cord and
major nerves will be covered. The students will use dissected cadavers
to study anatomical variations, pathologies, and changes due to disease/injury. The students enrolled in the course will attend clinical lectures
followed by cadaver exploration and identification. 3 credits.
Prerequisite: None

Offered at: CUW

MSAT 578. Pharmacology for Athletic Trainers. (3 Credits)

MSAT 600. Thesis. (1-6 Credits)
this course is designed to help students hone their research skills
through the implementation of a research proposal under the advisement
of a faculty member. Students will propose a research project, obtain IRB
approval, perform data collection, and analyze their data. Additionally,
students will create a complete thesis document. Students are expected
to work semi-independently with their thesis adviser and must produce
scholarly work. Students must also orally defend the thesis in a public
forum. 3 credits.
Prerequisite: MSAT 569 Research Methods.

Offered at: CUW