# MSAT Program of Study

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| **SDSU MSAT MAP- Course Sequencing “Road Map”** | **Sequencing** | **7 Semesters** | **Program Credit Hours (CH): 63** |
| **Course and Classification** | **Prerequisites** | **Credit Hours** | **Semester (CH)** |
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| **Summer Session I** |  |  | **Semester CH: 11** |
| *Summer Session I Learning Objectives*  *Clinical Preparation and Anatomy: First 6 weeks*  *Immersive Clinical Experience: Second 6 weeks* |  |  |  |
| **ENS 625- Emergency Management of Sports Trauma** *(SLO 1, 2, 3, 4 Introduced)* | MSAT admission | 2 |  |
| **ENS 626- Clinical Anatomy** *(SLO 1, 2, 3, 4 Introduced)* | MSAT admission | 2 |  |
| **ENS 627L- Prophylactic Interventions in Athletic Training** *(SLO 1, 3 Introduced)* | MSAT admission | 1 |  |
| **ENS 604- Evidence Based Practice in Athletic Training I** *(SLO 1, 3, 4 Introduced*) | MSAT admission | 1 |  |
| **Offered during Second 6 week summer session:**  **ENS 689A- Athletic Training Clinical Internship I – Pre-Season**  *(SLO 1, 2, 3, 4 Introduced)* | ENS 625, 626, 627L, 604 | 5- Immersive Clinical Experience |  |
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| **Fall Semester I** |  |  | **Semester CH**: **12** |
| *Fall Semester I Learning Objectives*   1. *Lower extremity pathology, assessment, and intervention* 2. *Holistic pathology and intervention* 3. *Clinical Application* |  |  |  |
| **ENS 653/653L- Musculoskeletal Diagnostics for the Lower Extremity**  *(SLO 1, 2, 3, 4 Introduced)* | ENS 626; Concurrent with ENS 663/663L | **3- TOTAL**  2 lecture; 1 lab |  |
| **ENS 663/663L- Musculoskeletal Interventions for the Lower Extremity**  *(SLO 1, 2, 3, 4 Introduced)* | Concurrent with ENS 653/653L | **4- TOTAL**  3 lecture; 1 lab |  |
| **ENS 620- Pathopharmacology for Athletic Trainers**  *(SLO 1, 2, 3, 4 Developed)* | MSAT admission | 3 |  |
| **ENS 699A- Athletic Training Clinical Clerkship I**  *(SLO 1, 2, 3, 4 Developed)* | ENS 689A | 2 |  |
| **Course and Classification** |  | **Credit Hours** | **Semester (CH)** |
|  |  |  |  |
| **Spring Semester I** |  |  | **Semester CH**: **12** |
| *Spring Semester I Learning Objectives:*   1. *Upper extremity pathology, assessment, and intervention* 2. *Bio-Psychosocial intervention* 3. *Clinical Application and Evidence Based Practice* |  |  |  |
| **ENS 654/654L- Musculoskeletal Diagnostics for the Upper Extremity**  *(SLO 1, 2, 3, 4 Developed)* | ENS 653/653L; Concurrent with ENS 664/664L | **3- TOTAL**  2 lecture; 1 lab |  |
| **ENS 664/664L- Musculoskeletal Interventions for the Upper Extremity**  *(SLO 1, 2, 3, 4 Developed)* | ENS 663/663L; Concurrent with ENS 654/654L | **4- TOTAL**  3 lecture; 1 lab |  |
| **ENS 638- Bio-Psychosocial Theories and Strategies in Athletic Training**  *(SLO 1, 2, 3, 4 Developed)* | MSAT admission | 2 |  |
| **ENS 699B- Athletic Training Clinical Clerkship II**  *(SLO 1, 2, 3, 4 Developed)* | ENS 699A | 2 |  |
| **ENS 605- Evidenced Based Practice in Athletic Training II**  *(SLO 1, 3, 4 Developed)* | ENS 604 | 1 |  |
|  |  |  |  |
| **Summer Session II** |  |  | **Semester CH**: **5** |
| *Summer Session II Learning Objectives:*  *Immersive Clinical Experience – Minimum of four weeks* |  |  |  |
| **ENS 689B- Athletic Training Clinical Internship II** *(SLO 1, 2, 3, 4 Developed)* | ENS 689A | 5-Immersive Clinical Experience |  |
|  |  |  |  |
| **Fall Semester II- 2023** |  |  | **Semester CH: 13** |
| *Fall Semester II Learning Objectives:*   1. *Head & Spine pathology, assessment, and intervention* 2. *Nutritional intervention* 3. *Clinical Application and Evidence Based Practice* |  |  |  |
| **ENS 655/655L- Musculoskeletal Diagnostics for the for the Head and Spine**  *(SLO 1, 2, 3, 4 Mastered)* | ENS 654/654L; Concurrent with ENS 665/665L | **3- TOTAL**  2 lecture; 1 lab |  |
| **ENS 665/665L- Musculoskeletal Interventions for the Head and Spine**  *(SLO 1, 2, 3, 4 Mastered)* | ENS 664/664L; Concurrent with ENS 655/655L | **4- TOTAL**  3 lecture; 1 lab |  |
| **Course and Classification** |  | **Credit Hours** | **Semester (CH)** |
|  |  |  |  |
| **Fall Semester II (Continued)** |  |  |  |
| **NUTR 512- Nutrition for Athletes**  *(SLO 1, 2, 3, 4 Developed)* | NUTR 201 | 3 |  |
| **ENS 699C- Athletic Training Clinical Clerkship III**  *(SLO 1, 2, 3, 4 Developed)* | ENS 699B | 2 |  |
| **ENS 606- Evidenced Based Practice in Athletic Training III**  *(SLO 1, 3, 4 Developed)* | ENS 605 | 1 |  |
|  |  |  |  |
| **Spring Semester II- 2024** |  |  | **Semester CH**: **10** |
| *Spring Semester II Learning Objectives:*   1. *Professional Preparation* 2. *Clinical Application and Evidence Based Practice* 3. *CES Certification* |  |  |  |
| **ENS 648- Professional Ethics, Management, Informatics, and Leadership in AT**  *(SLO 1, 2, 3, Mastered)* | MSAT admission | 2 |  |
| **ENS 649- Professional Preparation in Athletic Training**  *(SLO 1, 3, 4 Mastered)* | MSAT admission | 1 |  |
| **ENS 699D- Athletic Training Clinical Clerkship IV**  *(SLO 1, 2, 3, 4 Mastered)* | ENS 699C | 2 |  |
| **ENS 607- Evidenced Based Practice in Athletic Training IV**  *(SLO 1, 3, 4 Mastered)* | ENS 606 | 1 |  |
| **ENS 670/670L- Corrective Exercise Specialist (CES)**  *(SLO 1, 2, 3, 4 Mastered)* | ENS 665/665L | **4- TOTAL**  2 lecture; 2 lab |  |

**Notes:**

* Clerkship courses: Based on the medical model and are designed for structured clinical education that allows for practical hands-on experience in the athletic training setting with guided preceptor mentoring and evaluation.  Specific progressive learning objectives for each course will be identified, instructed, practiced, and assessed.
  + Clerkship courses also include a 1x weekly check-in (group and/or individual) through a combination of the following: CANVAS, Zoom meetings, or in-person meetings.
* Internship courses: The immersive clinical experience under the direct supervision of a preceptor as a “Service Learning” experience.
* Musculoskeletal Diagnostics: Includes clinical evaluation and functional assessments of each body part including some general medical conditions.
* Musculoskeletal Interventions: Includes therapeutic modalities (management), pharmacology, and therapeutic exercise for each body part including some general medical conditions.
* Non-thesis route (SDSU Graduate School Plan B): Achieved through the EBP course series and a culminating EBP Project (e. g., original research, case study, systematic analysis, or QI).
* Corrective Exercise Specialist (CES) course: Prepares students to be eligible to apply for the CES certification examination offered by the National Academy of Sports Medicine.