



Course Syllabus: Therapeutic Exercise Gunn College of Health and Human Services

ATRN 3914 Section 101

Fall 2026

Contact Information

Instructor: William Lyons, MS, ATC, LAT

Office: Office Rm 211 D. L. Ligon

Office hours: M, T, TH 2-3 PM; M, W, TH F, 10-11 AM.

Office phone: (940) 397.4824

Cell Phone: 307-760-4363-text preferred

E-mail: william.lyons@msutexas.edu

Course Description

The purpose of this course is to provide a foundation of appropriate rehabilitation principles and techniques based on current rationale. The scope is inclusive of approaches applicable to common sports medicine problems. The focus will be made to learn why and when to apply specific exercise techniques.

General Course Information

1. Prerequisites: a. ATRN-EXPH Majors
3. Credit: Four semester hours
4. Intended Audience: ATRN-EXPH majors
5. Days, Times, Place: MWF 9-9:50, D.L. Ligon, 219
6. Texts:
 - a. Rehabilitation of Musculoskeletal Injuries: 5th edition
Peggy Houlgum, et al: Human Kinetics 2023 **REQUIRED**

Course Objectives

Upon completion of this course the student will be able to:

1. Determine the effectiveness and efficacy of an athletic training intervention utilizing evidence-based practice concepts.
2. 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. Differentiate between an initial injury evaluation and follow-up/reassessment as a means to evaluate

the efficacy of the patient's rehabilitation program and make modifications to the patient's program as needed.

3. Understand and apply basic mechanical and physiological theory and principles as they relate to and impact therapeutic interventions, implementation, and progression. To include the effects related to: injury response; patient and lifespan impact; impact of surgical and medical intervention variations; impact of immobilization, inactivity, and mobilization;
4. Describe the laws of physics that form the foundation for the development of therapeutic interventions as they apply to flexibility, leverage, force, stress-strain,
5. Interpret the results of medical history and injury assessment and reassessment to determine the impact on planning and implementing therapeutic interventions. To include objective measurements; self-treatment; intervention modifications; functional assessments; and return to activity;
6. Design therapeutic interventions to meet specified therapeutic goals including but not limited to indications, contraindications, precautions for the interventions; positioning and patient preparation for the intervention; describe the expected effects and potential adverse reactions to the patient; proper patient instruction; apply the intervention, using parameters appropriate to the intended outcome; reassess the patient to determine the immediate impact of the intervention.
7. Will be able to describe how manual therapies, joint mobilization, therapeutic massage, and muscle energy techniques impact pain reduction and joint mobility and how they are impacted by the use of therapeutic modalities.
8. Explain the relationship between posture, biomechanics, and ergo dynamics and the need to address these components in a therapeutic intervention.
9. Provide for patient safety by inspecting therapeutic equipment and treatment environment for hazards, to include identify appropriate recommendations for use, inspection, and maintenance of the rehabilitation equipment. conditions.

Tentative Course Schedule

Class	Topic	Reading
8/24	Introduction to Rehabilitation	Chapter 1
8/26	Introduction to Rehabilitation	Chapter 1
8/28	Introduction to Rehabilitation	Chapter 1
8/31	Tissue Healing	Chpts 2-3

Class	Topic	Reading
9/2	Tissue Healing— Weekly Quiz	Chpts 2-3
9/4	Tissue Healing- LAB	Chpts 2-3
9/7	No class Labor Day	
9/9	Evaluation in Rehab	Chapter 5
9/11	Evaluation in Rehab- LAB	Chapter 5
9/14	Evaluation in Rehab	Chapter 5
9/16	Psychological Aspect of Rehabilitation	Class Hndt
9/18	Psychological Aspect of Rehabilitation— Weekly Quiz LAB	Class Hndt
9/21	Range of Motion and Flexibility	Chapter 12
9/23	Range of Motion and Flexibility — Weekly Quiz	Chapter 12
9/25	Range of Motion and Flexibility - LAB	Chapter 12
EXAM	Exam Unit 1 (Chpts 1-3,5) Opens 6:00 AM 09/25/26 Closes 11:00 PM 09/27/26	
9/28	Joint Mobilization— Weekly Quiz	Chapter 11
9/30	Joint Mobilization	Chapter 11
10/02	Joint Mobilization — Weekly Quiz LAB	Chapter 11
10/5	Regaining Muscular Strength	Chapter 13
10/7	Regaining Muscular Strength	Chapter 13
10/09	Regaining Muscular Strength — Weekly Quiz LAB	Chapter 13
10/12	Open Chain -Closed Chain— Weekly Quiz LAB	Chapter 13
10/14	Open Chain -Closed Chain	Chapter 13
10/16	Plyometrics	Chapter 15
10/19	Plyometrics	Chapter 15
EXAM	Exam Unit 2 (Chpts 12,11,13) Opens 6:00 AM 10/16/26 Closes 11:00 PM 10/18/26	
10/21	Proprioception	Chapter 14
10/23	Proprioception— Weekly Quiz LAB	Chapter 14
10/26	Rehabilitation of the Foot and Ankle Complex	Chapter 20
10/28	Rehabilitation of the Foot and Ankle Complex	Chapter 20
10/30	Rehabilitation of the Foot and Ankle Complex LAB	Chapter 20
11/02	Rehabilitation of the Foot and Ankle Complex	Chapter 20
11/04	Rehabilitation of the Tibiofemoral joint/Patellofemoral joint	Chapter 19
11/06	Rehabilitation of the Tibiofemoral joint/Patellofemoral joint LAB	Chapter 19
EXAM	Exam Unit 3 (chpts 15,14,20 plyometrics, isokinetics, proprioceptions, ankle) Opens 6 am 11/6/26 closes 11/8/25 11 PM	
11/09	Rehabilitation of the Tibiofemoral joint/Patellofemoral joint	Chapter 19
11/11	Rehabilitation of the Lumbar Spine	Chapter 17
11/13	Rehabilitation of the Lumbar Spine- LAB	Chapter 17

Class	Topic	Reading
11/16	Rehabilitation of the Shoulder	Chapter 21
11/18	Rehabilitation of the Shoulder	Chapter 21
11/20	Rehabilitation of the Elbow and Forearm- Lab	Chapter 22
11/23	Rehabilitation of the Elbow and Forearm	Chapter 22
11/25	No Class Thanksgiving	
11/27	No Class Thanksgiving	
11/30	Rehabilitation of the Hand and Wrist- Rehabilitation Plan Due 11PM	Chapter 23
12/02	Rehabilitation of the Hand and Wrist	Chapter 23
12/04	Rehabilitation of the Hand and Wrist- Lab	Chapter 23
	Final Exam: Will cover frequently missed questions from the previous exams as well as chapters not previously examined. It will be open from 12/05/26 6:00 AM and close 12/08/26 11PM.	TBA
	Practical Skill Exam 12/7-12/10 TBA	

Course Evaluation

1. Course Requirements:

- a. **Completion of written exams.** Unit exams will be given on D2L it is the student's responsibility to make sure they have appropriated internet access to be able to successfully complete the exams. Unit exams are timed, there will be a penalty for going past the allotted time.
- b. **Completion of weekly quizzes.** Each week there will be a short quiz of 10-15 points over the previous week's materials. These quizzes are given in class and mandatory. Missed quizzes cannot be made up without an appropriate university excuse or a written note from an MD on their Rx pad. These quizzes will come from the assigned readings. * **You must read the text in order to pass these quizzes.**
- c. **Completion of the comprehensive final exam.** This exam will cover frequently missed questions from the previous exams as well as chapters not previously examined.
- d. **Class attendance:** See attendance policy below.
- e. **Lab:** Mandatory attendance at lab sessions and completion of lab assignments
- f. **Rehabilitation Plan:** Completion of rehabilitation plan assignment
- g. **APA:** APA style quiz
- h. **Mock Assessment:** Completion of labs mock assessment assignment
- i. **Practical Skills:** Completion of Practical skills examination during finals week

2. Grading:

Assignments	Points
Chapter Quiz's (10-15 pts each)	130 to 150
Unit Exams 75 Pts each (3 x 75)	225
Final Exam	100

Assignments	Points
APA Style Quiz	25
Mock Assessment	50
Rehabilitation Plan (Honors 150)	100
Lab Assignments	40-80
Practical Skill Exam ??	100
Total Points	720 to 780

3. Grading Scale:

Grade	Points
A	90 to 100% of total points
B	80 to 89% of total points
C	70 to 79% of total points
D	60 to 69% of total points
F	Less than 60 % of total points

Lab Assignments

Lab assignments are always due at class time the week following they're giving out. **Late work will not be accepted.**

Lab APA Quiz

There will be an APA style quiz. It will be given on the D2L platform. Quiz will require the Respondus Lockdown browser and webcam. Please note: Chrome books do not work with D2L. You will need to find an appropriate alternative to take exams. Please read the instruction sheet on lock down browser before starting a quiz

Lab MOC Assessment

Students are to assess a the virtual patient presented in class, noting all the parameters, and factors which could, would affect the rehabilitation of that particular problem. The assessment will be written up in appropriate SOAP note format and submitted to the D2L Drop box. Student should make sure appropriate patient demographics are included in the note. Specifics of the Assessment will be included in the grading rubric. **Late work will not be accepted.**

Lab Rehabilitation Plan

The student will develop a rehabilitation plan from a list of topics given to the student by the instructor. Plans will encompass the complete rehabilitation of the injury from onset to complete return to sport. Specifics of the plan will be included in the grading rubric. **Late work will not be accepted.**

Lab Oral Practical Skill Exams

During the last week of class students will make an appointment for the practical skill exam. Student will demonstrate skills concepts learned during the semester.

Chapter Quizzes

There will be an in class quiz the next class period after the completion the lectures on that chapter. Each quiz will be from 10-15 points in length. All material for the chapter quizzes will come entirely from assigned readings

Exams

There will be three-unit exams as listed on the course syllabus. These exams will be given through D2L learning platform and are timed. The exams will cover the specific material from readings, power points, and course materials related to each unit. The exams are multiple choice, true false type of questions, multiple select questions. **Please Note all exams will be given through the lock down browser in D2L and will require the Respondus LockDown Browser. Please note: Chrome books do not work with D2L. You will need to find an appropriate alternative to take exams. Please read the instruction sheet on lock down browser before starting a quiz (located in the syllabus tab).**

Final Exam

The final exam is a semi comprehensive exam. It will cover frequently missed questions from exams 1-3 and chapters not examined past exam 3. **Please Note the final exam will be given through the lock down browser in D2L and will require the Respondus LockDown Browser. Please note: Chrome books do not work with D2L. You will need to find an appropriate alternative to take exams. Please read the instruction sheet on lock down browser before starting a quiz (located in the syllabus tab).**

Attendance Policy

Class attendance is mandatory. More than two (2) unexcused absences from lecture periods will serve to lower a student's grade one letter. Attendance at written examinations is mandatory. Absence without prior approval will result in a grade of zero being recorded for the exam. Medical excuses for illness are allowed. However, all medical excuses for missed class must be written, dated, and signed by the attending MD on the appropriate stationary or Rx pad. The medical excuse must state that you were not to attend class and **with the specific dates of absences noted.** All medical excuses not received on the second day after you return to class will not be allowed.

ZOOM Classroom Policy

Class attendance during zoom streaming sessions is mandatory. A Zoom class functions just like a face-to-face class. When participating in a Zoom class a student must have

their webcam on and point towards themselves (not at the ceiling, floor, dog etc. Zoom classes are conducted just as if you were in a classroom. You are not in your pajamas, you pets are not an issue, you are in an isolated, quiet setting so you can participate in class. No hats, sunglasses, or other distracting materials. All Zoom class sessions will be conducted during normally scheduled class times.

Classroom Etiquette

Student & professor agree that class time will be dedicated to mutual respect and focus. For example, to avoid distraction cell/mobile phones will be on 'vibrate' mode and placed away (e.g., in backpack) so students and professor can focus on class activities/instruction. (This applies to all electronic devices).

What I expect from you:

- Attend every class meeting
- Come to each class prepared, having done the assigned reading
- Participate in class
- Respect your fellow students and their role in this course

Illness Procedures:

- Wash your hands before entering and immediately after leaving the classroom.
- Attendance will be taken from the seating chart.
- If you are sick **DO NOT COME TO CLASS.** Email your instructor and alternate plan for missed material will be discussed

Academic Honesty/Dishonesty

Midwestern State University is built upon a strong foundation of integrity, respect, and trust, All members of the university community have a responsibility to be honest and the right to expect honesty from others. Any form of academic dishonesty is unacceptable to our community and will not be tolerated.

Plagiarism is strictly forbidden on any course assignment. (This includes class notes and fellow students work!) All, work, besides your own, should be cited and a reference given. Do not misrepresent any of your efforts on any academic task for which you will receive a grade.

Student Honor Creed

"As an MSU Student, I pledge not to lie, cheat, steal, or help anyone else do so."

As students at MSU, we recognize that any great society must be composed of empowered, responsible citizens. We also recognize universities play an important role in helping mold these responsible citizens. We believe students themselves play an important part in developing responsible citizenship by maintaining a community where integrity and honorable character are the norm, not the exception.

Thus, We, the Students of Midwestern State University, resolve to uphold the honor of the University by affirming our commitment to complete academic honesty. We resolve not only to be honest but also to hold our peers accountable for complete honesty in all university matters.

We consider it dishonest to ask for, give, or receive help in examinations or quizzes, to use any unauthorized material in examinations, or to present, as one's own, work or ideas which are not entirely one's own. We recognize that any instructor has the right to expect that all student work is honest, original work. We accept and acknowledge that responsibility for lying, cheating, stealing, plagiarism, and other forms of academic dishonesty fundamentally rests within each individual student.

We expect of ourselves academic integrity, personal professionalism, and ethical character. We appreciate steps taken by University officials to protect the honor of the University against any who would disgrace the MSU student body by violating the spirit of this creed.

Written and adopted by the 2002-2003 MSU Student Senate.

DEFINITIONS.

A. ACADEMIC DISHONESTY. An action attempted or performed that misrepresents one's involvement in an academic endeavor in any way, or assists another student in misrepresenting his or her involvement in an academic endeavor. Examples of academic dishonesty include, but are not limited

- i. Plagiarism: presenting the work (i.e., ideas, data, creations) of another, wholly or in part, as one's own work without customary and proper acknowledgement of sources and extent of use, unless authorized by the instructor
- ii. Cheating: using information, study aids, notes, materials, devices, or collaboration not explicitly approved by the instructor. For example: doing a class assignment for someone else or allowing someone to copy one's assignment; copying from, or assisting, another student during an examination; or stealing, or otherwise improperly obtaining, copies of an examination before or after its administration.
- iii. Fraud: altering or inventing data, research, or citations for an academic endeavor; fabricating, forging or otherwise misrepresenting to an instructor or an institution one's past or current academic or professional activities; impersonating someone or allowing oneself to be impersonated for an examination or other academic endeavor; using a ghost writer, commercial or otherwise, for any type of assignment.
- iv. Violation of Standards: violations against ethical and professional standards required by individual University programs, academic courses, and clinical programs that may result in qualification for entry into a profession that maintains standards of conduct.
- v. Multiple Submissions: submitting, wholly or in part, the same academic endeavor to earn credit in two or more courses without explicit approval by all concerned instructors.
- vi. Interference/Obstruction: interfering with academic efforts of other students to gain unfair advantage for personal academic advancement. Interference may include but is not limited to, sabotage, harassment, tampering, bribery, or intimidation of another student.
- vii. Complicity: assisting another person in any act of academic dishonesty as defined above.

B. ACADEMIC ENDEAVOR. Any student activity undertaken to earn University credit or meet some other University program requirement. Examples of academic endeavors include, but are not limited to:

- i. Course assignments (written/oral, projects, research, exhibitions of work)

- ii. Exams (written/oral, quizzes)
- iii. Clinical assignments (internships, rotations, practica)
- iv. Presentations (on and off campus)
- v. Publications
- vi. Independent study coursework
- vii. Plan B papers/projects, theses, dissertations
- viii. Student media associated with academic credit

Students are expected to do their own work at all times. This includes all tests, papers, quizzes, projects, reports, and notebooks. Plagiarism of any authors (even fellow classmates) work will not be tolerated.

Copying of materials using a previous student's work, notebook, etc. will not be tolerated. Students who miss class will need to get notes from other students. **HOWEVER, IT IS EXPECTED THAT THIS WORK WILL BE REDONE IN THEIR OWN WORDS.** Students using computers, word processors, etc. may not share discs or other materials between each other. To do so will be considered the same as copying of materials. In all cases students who allow for the copying of materials will be treated just like the student who does the copying.

STUDENTS WHO ARE FOUND TO BE IN VIOLATION OF THIS POLICY WILL HAVE A GRADE OF ZERO RECORDED FOR THE INVOLVED PAPER, TEST, QUIZ, PROJECT, REPORT OR NOTEBOOK. **FURTHERMORE THESE STUDENTS WILL BE REFERRED TO THE APPROPRIATE DEPARTMENT, COLLEGE, OR UNIVERSITY COMMITTEE FOR THE APPROPRIATE DISCIPLINARY ACTION**

Services for Students with Disabilities

In accordance with Section 504 of the Federal Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, Midwestern State University endeavors to make reasonable accommodations to ensure equal opportunity for qualified persons with disabilities to participate in all educational, social, and recreational programs and activities. After notification of acceptance, students requiring accommodations should make application for such assistance through Disability Support Services, located in the Student Wellness Center, (940) 397-4140. Current documentation of a disability will be required in order to provide appropriate services, and each request will be individually reviewed. For more details, please go to [Disability Support Services](#).

Emergency Aid Resources for Basic Needs

Unexpected life circumstances can affect anyone. If you are experiencing challenges meeting basic needs—such as housing, utilities, food, transportation, healthcare, technology, textbooks or other life necessities, resources may be available to help. Visit the [Student Emergency Support and Resources webpage](#) to learn more, and explore emergency support opportunities through MSU and how to access them. For additional information, please contact the Office of

Student Affairs: Clark Student Center #108, (940) 397-7500,
student.affairs@mstuexas.edu.

Desire-to-Learn (D2L)

Extensive use of the MSU D2L program is a part of this course. Each student is expected to be familiar with this program as it provides a primary source of communication regarding assignments, examination materials, and general course information. You can log into D2L through the MSU Homepage. If you experience difficulties, please contact the technicians listed for the program or contact your instructor. If you have problems while taking an exam, text me immediately. If it is during normal hours I can fix it quickly or if it is in the evening it may be the next day.

Emergency Exit Procedures

In the event of an emergency please evacuate the room in an orderly fashion through the nearest exit. The nearest exit is through either set of doors at the front of the room. Follow the exit signs to the nearest available exit.

Once exiting the building, please meet your instructor at: across the street from D. L. Ligon in front of the tennis courts.

The fire extinguisher is located immediately outside of the classroom by the door to the left of the podium

MSU Alert

All students are encouraged to participate in the University's emergency warning system "MSU ALERT". Because of this your cell phone should be set to vibrate. If all of our phones go off at the same time, we should take the appropriate action. If your cell phone vibrates by itself, please ignore it and continue with class. .

College Policies

Campus Carry Rules/Policies

Refer to: Campus Carry Rules and Policies

Smoking/Tobacco Policy

College policy strictly prohibits the use of tobacco products in any building owned or operated by WATC. Adult students may smoke only in the outside designated-smoking areas at each location.

Alcohol and Drug Policy

To comply with the Drug Free Schools and Communities Act of 1989 and subsequent amendments, students and employees of Midwestern State are informed that strictly enforced policies are in place which prohibits the unlawful possession, use or distribution of any illicit drugs, including alcohol, on university property or as part of any university-sponsored activity. Students and employees

are also subject to all applicable legal sanctions under local, state and federal law for any offenses involving illicit drugs on university property or at University-sponsored activities.