

**MICHIGAN STATE UNIVERSITY
SCHOOL OF EDUCATION
COURSE SYLLABUS
Spring 2018**

Department and Number: KIN 320

Title: Pathology of Injury

Prerequisite: KIN 125 – First Aid & Personal Safety
KIN 126 – Introduction to Athletic Training
KIN 127 – Taping and Bracing in Athletic Training

Course Location: Jenison Field House, Room 309

Bulletin Description: The course presents topics that relate to the basic knowledge regarding normal human tissue mechanics and the patho-mechanics of athletic injuries. Emphasis is placed on the fundamental knowledge and skills necessary for student to be able to identify normal and abnormal motion, anatomical structures and the classification of common athletic injuries based on their dysfunctions. The course will build on your knowledge of the role of the athletic trainer in sports medicine and experiences in the MSU athletic training clinical settings.

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Recommended Text: Principles of Athletic Training, McGraw-Hill, 14th Edition

Office Hours: By appointment as needed

Course Learning Objectives:

1. You will be able to analyze the normal physiological responses of the human body to trauma (ligaments/capsules, muscles, tendons, and bones).
2. You will be able to describe the inflammatory response to acute and chronic injury and illness.
3. You will recognize tissue lesions by body system in terms of etiology, pathogenesis, pathomechanics, treatment options, and expected outcomes.
4. You will describe normal anatomical structures of the human body and their functions.
5. You will identify directional terms and cardinal planes used to describe the body and the relationship of its parts.
6. You will be able to identify body movements including functional classification of joints, joint biomechanics, and normal ranges of joint motion, joint action terminology, and muscular structures responsible for joint.

7. You will be able to describe the etiological factors, signs, symptoms, and management procedures for injuries of the toes, foot, ankle, lower leg, knee, thigh, hip, pelvis, shoulder, upper arm, elbow, forearm, wrist, hand, thumb, fingers, spine, thorax, abdomen, head, and face.
8. You will be able to recognize signs and symptoms of head trauma, including loss of consciousness, changes in standardized neurological, cranial nerve assessment, and other symptoms that indicate underlying trauma.
9. You will be able to construct phrases and appropriate questions to obtain a medical history of an injured or ill individual that includes a previous history and a history of the present injury
10. You will be able to visually identify clinical signs associated with common injuries and illnesses.
11. You will develop skill in the uses of appropriate terminology in the communication and documentation of injuries and illnesses.

CAATE Competencies

1. AC-C14: Identify the signs and symptoms associated with internal hemorrhaging. AC-C16: Describe the injuries and illnesses that require medical referral.
2. PD-P4: Develop a research project (to include but not limited to case study, clinical research project, literature review) for an athletic training-related topic.
3. RM-C3: Identify and explain the epidemiology data related to the risk of injury and illness related to participation in physical activity.
4. PA-C5: Describe the etiology, pathogenesis, pathomechanics, signs, symptoms, and epidemiology of common orthopedic injuries, illnesses and diseases to the body's systems.
5. MC-P1: Obtain a medical history of the patient that includes a previous history and a history of the present condition.

Attendance:

Students are expected to attend every class unless absence occurs for an approved purpose including:

1. A student has participated in an activity approved by the Academic Deans' Policy Council, such as music and debate activity, R.O.T.C. function, or varsity athletic trip.
2. A student has participated in a special academic activity, such as a field trip or other special event connected with course-work.
3. A student has been a patient of the Health Center, as certified by the Student Health Service, or has suffered a **serious illness or hospitalization**, as documented by a note from a physician verifying the illness or hospitalization.
4. Religious holiday with written request to the professor within the first 2 weeks of class.

It is the responsibility of the student to communicate with the professor and provide any documentation related to the absence as soon as possible. Attendance will be confirmed randomly via short in class quizzes or assignments based on past lectures or readings.

Assignments:

Reading assignments:

These assignments provide the essential information related to each of the course topic areas. Therefore, students are expected to have read the assignments prior to the date they are listed.

Laboratory assignments:

There will be two lab assignments consisting of the gait and posture labs. Details will be provided no less than 2 weeks prior to the due date for the assignment.

Academic Dishonesty:

Article 2.III.B.2 of the Student Rights and Responsibilities (SRR) states that "The student shares with the faculty the responsibility for maintaining the integrity of scholarship, grades, and professional standards." In addition, the Department of Kinesiology adheres to the policies on academic honesty as specified in General Student Regulations 1.0, Protection of Scholarship and Grades; the all-University Policy on Integrity of Scholarship and Grades; and Ordinance 17.00, Examinations. (See Spartan Life: [Student Handbook and Resource Guide](#) and/or the MSU Web site: www.msu.edu.)

Therefore, unless authorized by your instructor, you are expected to complete all course assignments, including homework, lab work, quizzes, tests and exams, without assistance from any source. You are expected to develop original work for this course; therefore, you may not submit course work you completed for another course to satisfy the requirements for this course. Also, you are not authorized to use the www.allmsu.com Web site to complete any course work in this course. Students who violate MSU academic integrity rules may receive a penalty grade, including a failing grade on the assignment or in the course. Contact your instructor if you are unsure about the appropriateness of your course work. (See also the Academic Integrity webpage.)

Academic Pledge:

This course will be conducted in a manner consistent with the values and expectations of Michigan State University as summarized in the MSU Code of Honor Academic Pledge:

“As a Spartan, I will strive to uphold values of the highest ethical standard. I will practice honesty in my work, foster honesty in my peers, and take pride in knowing that honor is worth more than grades. I will carry these values beyond my time as a student at Michigan State University, continuing the endeavor to build personal integrity in all that I do.”

Accommodations for Students with Disabilities:

Michigan State University is committed to providing equal opportunity for participation in all programs, services and activities. Requests for accommodations by persons with disabilities may be made by contacting the Resource Center for Persons with Disabilities at 517-884-RCPD or on the web at rcpd.msu.edu. Once your eligibility for an accommodation has been determined, you will be issued a Verified Individual Services Accommodation ("VISA") form. Please present this form to me at the start of the term and/or two weeks prior to the accommodation date (test, project, etc.). Requests received after this date may not be honored.

Counseling Center:

University students may experience a great deal of stress during the course of their academic experiences. Depression, anxiety, relationship problems, and academic concerns - these are just some of the issues that affect many MSU students. While most students cope successfully with the challenges these years bring, some students find the various pressures of life unmanageable or unbearable. Many students have not sought counseling and may be unaware of the services available to them. The information below will provide suggestions for students in distress.

- 1) Talk to me or Tom. We can talk to Dr. Rosen and see if we can get you in either Duffy or his office in Olin.
- 2) Call the Counseling Center to check available times: 517-355-8270. The MSU Counseling Center is located in the Student Services building on the second floor.

- 3) Psychiatry Services are located at Olin Health Center: 517.353.8737 Consultation and treatment are provided for a wide range of mental health concerns including: mood and anxiety disorders, eating disorders, attention deficit hyperactivity disorder, alcohol/substance abuse, and psychosis. Olin Psychiatry works in collaboration with the MSU Counseling Center and the Olin Primary Care clinic.

Commercialized Lecture Notes

Commercialization of lecture notes and university-provided course materials are not permitted in this course.

Evaluation:

Evaluation will be based on a total of 700 points.

Quizzes (50 pts)

- Six 3-5 question concept checks will be given throughout the semester.
- These quizzes will be completed via D2L
- All students must bring an electronic device capable of D2L access
- The lowest quiz score will be dropped

Lab Assignments (100 total pts)

- There will be two lab assignments consisting of the gait and posture labs. Details will be provided during the labs.

Class Project Presentation: (100 pts)

- You will be required to pick an injury of your choice (ex. ACL injuries or tennis elbow) to research and give a 15 minute in class group presentation.

Exams 1 (100 pts)

Exam 2 (100 pts)

Exam 3 (100 pts)

Comprehensive Final Exam (150 pts)

Total Points = 700 points

The following scale will be used to assign course grades:

% of Total Points	Grade Achieved
100-92	4.0
91-85	3.5
84-78	3.0
77-71	2.5
70-64	2.0
63-57	1.5
56-50	1.0
≤49	0.0

** Grades will be continuously updated on D2L. You are expected to keep track of your own grade based on how it is outlined in the syllabus. All discussions of grades are to be done BEFORE the final exam on December 15. You will be able to see your final exam after it is graded, but understand that your final semester grade is not subject to change.

D2L Web Site:

This class will use D2L as a course management tool. **YOU ARE RESPONSIBLE FOR CHECKING THIS SITE ON A REGULAR BASIS.** It will contain information such as PowerPoint notes, review questions, and all other course materials. You can access the site by going to the following site <http://angel.msu.edu>. You will need your pilot ID and password to login.

Course Content (Schedule is subject to change, including exam dates/weeks)

	Date	Topic	Readings	Assignments
Week 1	1/8/2018	Introduction, Mechanics and Motion	345-348	
	1/10/2018	Characteristics of Bone	247-248, 257-263	
Week 2	1/17/2018	Characteristics of Joints	253-257	Quiz 1
Week 3	1/21/2018	No Class	-----	
	1/24/2018	Characteristics of Connective Tissue	253-257	
Week 4	1/29/2018	Characteristics of Muscle	249-253	
	1/31/2018	Exam 1		
Week 5	2/5/2018	Foot, Ankle and Leg Injuries	507-575	
	2/7/2018	Foot, Ankle and Leg Injuries		
Week 6	2/12/2018	Leg and Knee Injuries	582-626	Quiz 2
	2/14/2018	Leg and Knee Injuries		
Week 7	2/19/2018	Thigh, Hip and Pelvis Injuries	632-664	
	2/21/2018	Thigh, Hip and Pelvis Injuries		
Week 8	2/26/2108	Thigh, Hip and Pelvis Injuries	768-816	Lab 1 Assignment
	2/28/2018	Spine Injuries	768-816	Quiz 3
Week 9	3/5/2018	Spring Break	-----	
	3/7/2018	Spring Break	-----	
Week 10	3/12/2018	Spine Injuries		
	3/14/2018	Exam 2		
Week 11	3/19/2018	Shoulder Injuries	669-705	
	3/21/2018	Shoulder Injuries		
Week 12	3/26/2018	Shoulder Injuries		Lab 1 Due
	3/28/2018	Arm and Elbow Injuries	712-730	Quiz 4
Week 13	4/2/2018	Arm and Elbow Injuries		Lab 2 Assignment
	4/4/2018	Forearm, Wrist and Hand Injuries	735-763	
Week 14	4/9/2018	Forearm, Wrist and Hand Injuries		Quiz 5
	4/11/2018	Exam 3		
Week 15	4/16/2018	Head and Facial Injuries	825-856	
	4/18/2018	Head and Facial Injuries	825-856	Lab 2 Due
Week 16	4/23/2018	Mild Traumatic Brain Injuries		Quiz 6
	4/25/2018	Mild Traumatic Brain Injuries		
Finals	4/30/2018	Comprehensive Final Exam (8:30am)		