

KINES 570: ANATOMICAL FOUNDATIONS IN ATHLETIC TRAINING

NEW COURSE PROPOSAL

CHANGES SAVED BUT NOT SUBMITTED

VIEWING: KINES 570: ANATOMICAL FOUNDATIONS IN ATHLETIC TRAINING

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Proposal contact information:

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Type of approval

Governance Approval Needed

Is your unit (department/subject listing) submitting more than 5 course proposals at this time?

No

BASIC CATALOG INFORMATION

First Available Term

Summer 2021 (1216)

Should this course have the graduate attribute?

Yes

Who is the intended audience?

Graduate or professional students only

Subject

KINES - Kinesiology

Course Number

570

Is this course crosslisted?

No

Course Title

Anatomical Foundations in Athletic Training

Transcript Title

Anat Found in Athl Train

Course Description

Structure, regions and function of the neurological and musculoskeletal systems are presented with the purpose of providing insight into the anatomical foundations of common injuries and conditions.

Enroll Info (usually None)

None

Requisites

Declared in Master of Athletic Training program

Grading Basis

A/F

Component Type

Lecture section is scheduled

Credits

3

Is this a topics course?

No

Repeatable

No

Does this course need a scheduled two-hour final exam for fall and spring offerings?

No

RATIONALE FOR THE COURSE

Why is this course being proposed? In responding to this question, be sure to answer the following: What gap in the curriculum is this course fulfilling? What is the purpose of the course? What degree and/or major requirement(s) will this fulfill?

This course proposal is part of a series of new graduate courses being created for a new health science professional preparation Master's degree in athletic training (MSAT) in the Department of Kinesiology. This course proposal is put forward as companion to the formal degree authorization proposal. The content for this course is designed to meet a portion of the curricular standards put forth by our accrediting agency; the Commission for Accreditation of Athletic Training Education (CAATE). This purpose of this course is to provide insight into the anatomical foundations of common injuries and conditions.

What is the estimated enrollment for the course?

10

How many qualified instructors in the primary unit will be able to teach the course?

5

Address the relationship of the course to other UW-Madison courses, including the duplication of content, both inside and outside the primary unit.

Anatomical Foundations in Athletic Training does not duplicate current content in the Department of Kinesiology. Any potential content overlap with existing health science programs (eg Occupational Therapy, Physical Therapy, and Physician Assistant) has been reviewed by the respective program directors who have provided support to the new degree program (MSAT) and the respective courses making up that program. Each health science program is subject to outside accreditation requirements thus necessitating an independent offering as part of the MSAT.

What subjects (if any) might be interested in this course?

COURSE CONTENT INFORMATION

Course Learning Outcomes

	Outcomes—enter one learning outcome per box, use the green + to create additional boxes.	Audience
1	Locate anatomical structures of the musculoskeletal, articular, nervous, and vascular system.	Graduate
2	Demonstrate the functional application of these anatomical structures.	Graduate
3	Recognize the role of these anatomical structures as they relate to athletic injury mechanism, evaluation, and rehabilitation.	Graduate

Credit hour policy

This course has been designed to meet the credit hour policy.

Please upload a syllabus.

Please provide additional information, as necessary, to further describe your course.

Admin Use Only

Reviewer Comments

Key: 12992

Kines 570 – Summer 2021

Department of Kinesiology / AT Program / University of Wisconsin – Madison
Anatomical Foundations in Athletic Training (3 credits)

T/H 9-11:20am Face-to-Face Lecture and Lab format

Requisites: Admitted to Master of Science in Athletic Training Program

Instructor Information

TBD

Office Hours: TBD

TBD

or by appointment

winterstein@education.wisc.edu

Course Description

Structure, regions and function of the neurological and musculoskeletal systems are presented with the purpose of providing insight into the anatomical foundations of common injuries and conditions.

Course Objectives

- ❑ Locate anatomical structures of the musculoskeletal, articular, nervous, and vascular system.
- ❑ Demonstrate the functional application of these anatomical structures in identifying specific musculoskeletal, articular, nervous, and vascular injuries and conditions.
- ❑ Apply injury classification principles to specific tissues to understand injury severity.
- ❑ Recognize the role of these anatomical structures as they relate to athletic injury mechanism, evaluation, and rehabilitation.

Required Course Materials:

- ❑ Principles of Athletic Training: A Competency-Based Approach 16th Ed, Prentice, McGraw Hill 2017. ISBN-13: 978-1259824005
- ❑ Trail Guide to the Body 5th Edition by Andrew Biel, Books of Discovery, 2014. ISBN-13: 978-0982978658
- Visible Body Human Anatomy Atlas – Downloads available for computers, tablets, smartphones

Course Format and Credit Hours

The credit standard for this course is met by an expectation of a total of 135 hours of student engagement with the course learning activities (at least 45 hours per credit), which include scheduled instructor:student meeting times (two 75-minute lectures and two 100 minute labs per week over the 8 week summer session) and reading, writing, assignments and lab activities as described in the syllabus.

Course Philosophy

This course takes a learning centered approach that combines problem-based activities, group inquiry, reading, and discussion to develop an understanding of human anatomy and common injuries and conditions in active populations. This approach requires students to prepare for class, keep up with the assigned reading, and to participate in required group activities.

Learning Assessment, Expectations, Grading

Students are expected to attend all class periods and complete all assignments. Unexcused absences are not acceptable. You can best prepare for class by reading the assigned material in advance. Please be an **active learner**, questions and discussions will only enhance the classroom environment. Grades are **earned** based on your percentage of points available using the following scale: A= 93% and above, AB = 89% - 92%, B = 83% - 88%, BC = 79% - 82%, C = 70% - 78% D = 60% - 69%, F= 59% and below.

Learning Assessment

Student learning will be assessed, and grades calculated based on the following:

- Four written examinations (80%)
 - Bi-weekly examinations
- Two clinical connections (10%)
 - 3-5-minute presentation in front of class correlating anatomy to clinical practice
- One final project (10%)
 - 8-10-minute video presentation/voice over PPT covering anatomical topic in-depth
 - Associated discussion thread online

CAATE Content Standards

This course is designed to meet a portion of the required athletic training educational standards as outlined in the Commission on Accreditation of Athletic Training Education (CAATE) 2020 Standards.

Statement on Ethical Conduct

The AT Program aspires to operate at the highest level of ethical conduct and to promote these values among students and instructors. During the clinical experience component of this class medical confidentiality in accordance to all HIPAA guidelines must be strictly adhered to in all aspects of education, research, and patient care. Proper professional conduct in accordance with the NATA Code of Ethics is emphasized and encouraged at all levels of the program. www.nata.org/about/codeofethics.htm. A breach of confidentiality is basis for disciplinary action.

RULES, RIGHTS & RESPONSIBILITIES

- See the Guide's [Rules, Rights and Responsibilities](#)

ACADEMIC INTEGRITY

By enrolling in this course, each student assumes the responsibilities of an active participant in UW-Madison's community of scholars in which everyone's academic work and behavior are held to the highest academic integrity standards. Academic misconduct compromises the integrity of the university. Cheating, fabrication, plagiarism, unauthorized collaboration, and helping others commit these acts are examples of academic misconduct, which can result in disciplinary action. This includes but is not limited to failure on the assignment/course, disciplinary probation, or suspension. Substantial or repeated cases of misconduct will be forwarded to the Office of Student Conduct & Community Standards for additional review. For more information, refer to studentconduct.wiscweb.wisc.edu/academic-integrity/.

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES

McBurney Disability Resource Center syllabus statement: “The University of Wisconsin-Madison supports the right of all enrolled students to a full and equal educational opportunity. The Americans with Disabilities Act (ADA), Wisconsin State Statute (36.12), and UW-Madison policy (Faculty Document 1071) require that students with disabilities be reasonably accommodated in instruction and campus life. Reasonable accommodations for students with disabilities is a shared faculty and student responsibility. Students are expected to inform faculty [me] of their need for instructional accommodations by the end of the third week of the semester, or as soon as possible after a disability has been incurred or recognized. Faculty [I], will work either directly with the student [you] or in coordination with the McBurney Center to identify and provide reasonable instructional accommodations. Disability information, including instructional accommodations as part of a student's educational record, is confidential and protected under FERPA.” <http://mcburney.wisc.edu/facstaffother/faculty/syllabus.php>

DIVERSITY & INCLUSION

Institutional statement on diversity: “Diversity is a source of strength, creativity, and innovation for UW-Madison. We value the contributions of each person and respect the profound ways their identity, culture, background, experience, status, abilities, and opinion enrich the university community. We commit ourselves to the pursuit of excellence in teaching, research, outreach, and diversity as inextricably linked goals.

The University of Wisconsin-Madison fulfills its public mission by creating a welcoming and inclusive community for people from every background – people who as students, faculty, and staff serve Wisconsin and the world.” <https://diversity.wisc.edu/>

Course Topics

		Subject	Readings
Week 1	M – Lecture Topics	Course intro/Intro to Anatomy	Prentice – Ch. 1, 9
	W – Lecture Topics	Intro to bones and bony injuries	Beil – Ch. 1
	T – Lab Topics	Vertebral column & thoracic cage	Prentice – Ch. 25, 27
Week 2	Th – Lab Topics	Spinal cord/trunk and abdominal wall	Beil – Ch. 1
	M – Lecture Topics	Injuries to the brain	Prentice – Ch. 26
	W – Lecture Topics	Injuries to the cardiovascular system	
Week 3	T – Lab Topics	Brain and cranial nerves	Prentice – Ch. 26
	Th – Lab Topics	Heart, great vessels, respiratory system	
	M – Lecture Topics	Injuries to the skull, face, and neck	Prentice – Ch. 26
Week 4	W – Lecture Topics	Injuries to the eye, ear, nose, mouth	Beil – Ch. 5
	T – Lab Topics	Skull, face, eye, ear, nose, mouth	Prentice – Ch. 26
	Th – Lab Topics	Palpations and inspection of anatomical structures	Beil – Ch. 5
Week 5	M – Lecture Topics	Injuries to the brachial plexus and peripheral nerves	Prentice – Ch. 22
	W – Lecture Topics	Injuries to the shoulder	Beil – Ch.2
	T – Lab Topics	Brachial plexus and UE peripheral nerves	Prentice – Ch. 22
Week 6	Th – Lab Topics	Shoulder joints and muscles	Beil – Ch. 2
	M – Lecture Topics	Injuries to the arm, elbow, and forearm	Prentice – Ch. 23, 24
	W – Lecture Topics	Injuries to the wrist, hand, fingers, and thumb	Beil – Ch. 3
Week 7	T – Lab Topics	Arm, elbow, and forearm	Prentice – Ch. 23, 24
	Th – Lab Topics	Wrist, hand, fingers, thumb	Beil – Ch. 3

Week 6	M – Lecture Topics	Injuries to the pelvis and SI joint	Prentice – Ch. 21
	W – Lecture Topics	Injuries to the hip and femur	Beil – Ch. 6
Week 7	T – Lab Topics	Pelvis and sacrum	Prentice – Ch. 21
	Th – Lab Topics	Hip joint and femur	Beil – Ch. 6
Week 8	M – Lecture Topics	Injuries to the thigh and knee 1	Prentice – Ch. 20, 21
	W – Lecture Topics	Injuries to the thigh and knee 2	Beil – Ch. 6, 7
Week 8	T – Lab Topics	Bones - femur, patella, tibia, fibula	Prentice – Ch. 19, 20
	Th – Lab Topics	Ligaments and cartilage	Beil – Ch. 6, 7
Week 8	M – Lecture Topics	Injuries to the leg and ankle	Prentice – Ch. 19
	W – Lecture Topics	Injuries to the ankle and foot	Beil – Ch. 7
Week 8	T – Lab Topics	Bones – tibia, fibula, tarsals, metatarsals, phalanges	Prentice – Ch. 18, 19
	Th – Lab Topics	Ligaments and soft tissues	Beil – Ch. 7

Supporting Bibliography

This bibliography has been developed in support of course content. It is not a required reading list. However, students searching for additional information may wish to start with these resources.

- Aktan Ikiz, Z. A., Ucerler, H., & Uygur, M. (2007). Dimensions of the anterior tarsal tunnel and features of the deep peroneal nerve in relation to clinical application. *Surgical and Radiologic Anatomy*, 29(7), 527–530. Retrieved from <http://link.springer.com/10.1007/s00276-007-0229-x>
- Chendrasekhar, A. (2019). Persistent symptoms in mild pediatric traumatic brain injury. *Pediatric Health, Medicine and Therapeutics*, 10, 57-60. <https://doi.org/10.2147/PHMT.S206388>
- Franco, C. D., & Clark, L. (2008). Applied anatomy of the upper extremity. *Techniques in Regional Anesthesia and Pain Management*, 12(3), 134-139. <https://doi.org/10.1053/j.trap.2008.02.002>
- Franco, C. D. (2008). Applied anatomy of the lower extremity. *Techniques in Regional Anesthesia and Pain Management*, 12(3), 140-145. <https://doi.org/10.1053/j.traap.2008.02.003>
- Lin, C. F., Gross, M. T., & Weinhold, P. (2006). Ankle syndesmosis injuries: Anatomy, biomechanics, mechanism of injury, and clinical guidelines for diagnosis and intervention. *Journal of Orthopaedic and Sports Physical Therapy*, 36(6), 372-384. <https://doi.org/10.2519/jospt.2006.2195>
- Kuhn, J. E., Lebus, G. F., & Bible, J. E. (2015). Thoracic outlet syndrome. *Journal of the American Academy of Orthopaedic Surgeons*, 23(4), 222-232. <https://doi.org/10.5435/JAAOS-D-13-00215>
- Margo, B. J., Radnay, C. S., & Scuderi, G. R. (2010). Anatomy of the knee. *The Knee: A Comprehensive Review*, 1-17. https://doi.org/10.1142/9789814282048_0001
- Radic, B., Radic, P., & Durakovic, D. (2018). Peripheral nerve injury in sports. *Acta Clinica Croatica*, 57(3), 561-569. <https://doi.org/10.20471/acc/2018.57.03.20>