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KIN 323.02: Anatomical Kinesiology Lab

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Department of Health and Human Performance
KIN 323 – Anatomical Kinesiology Lab
Section 02

Instructor: Stephanie Domitrovich, M.S., ATC
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Semester: Fall 2013
Credit Hours: 1
(co-req with KIN 322)

Office Hours: Monday 10-12, Tuesday 10-12, Thursday 12:30-3:30, or by appointment

Class meets: Tuesday 1:10-3:00 pm

Course Description: Clinical applications of HHP 368. Laboratory time for practical applications including surface anatomy, osteology, radiology, functional analysis of movement, applied clinical anatomy and sports application

Texts and Readings:

1. Floyd, RT. Manual of Structural Kinesiology, 18th ed. McGraw Hill, San Francisco, CA: 2012.
2. Netter, FH. Atlas of Human Anatomy, 4th ed. Lippincott, Williams, & Wilkins, Philadelphia, PA: 2006.

Course Objectives:

1. Identify major muscle groups and describe origins, insertions, innervations, as well as primary and secondary actions of those muscles.
2. Observe, describe, and analyze movement patterns using correct terminology.
3. Identify and define distance, speed, velocity, force, inertia, mass, momentum, weight, and acceleration as they relate to linear and angular motion.
4. Explain the effects of weight, friction, buoyancy, and drag on human motion.
5. Explain the significance of impulse-momentum, work-energy, and conservation of momentum in linear motion.
6. Identify and evaluate factors that affect joint stability.

Evaluation of Student Outcomes:

1. **Practical Examinations:** Exams will assess students' awareness and understanding of the concepts covered by the course content. These exams will be a combination of written questions and practical demonstration of skills.
2. **Assignments and quizzes:** Various assignments and quizzes (announced and unannounced) will be given throughout the course. Due dates will be announced in class.

Attendance:

Attendance is compulsory. Prior arrangements should be made with the instructor for excused absences to make up work. Labs **cannot** be made up without **prior** consent of the instructor.

Course Evaluation:

Practical Examination 1:	25%
Practical Examination 2:	25%
Practical Examination 3:	25%
Assignments/Quizzes:	<u>25%</u>
	100%

Grading Scale:

90-100%	= A
80- 89.9%	= B
70- 79.9%	= C
60- 69.9%	= D
<60%	= F

Americans with Disabilities Act (ADA):

The University of Montana upholds the ADA by providing reasonable accommodations to individuals with disabilities. If anyone requires a reasonable accommodation to adequately perform the duties of the class, please see the instructor as soon as possible so that specific plans can be made.

Academic Misconduct:

All assignments and exams are intended to be individual efforts unless otherwise assigned as a group project. Plagiarism is a violation of the law and against the Student Code of Academic Integrity. Any plagiarism or use of someone's paper will result in the student receiving an "F" for the final grade in the course. Further action will be at the instructor's discretion in accordance with the University of Montana's policy and procedures.

The University of Montana policy for academic misconduct:

All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the Student Conduct Code. The code is available for review online at

<http://www.umt.edu/SA/VPSA/index.cfm/page/1321>.

All incidences of academic misconduct in the class will automatically follow the steps outlined in this policy.

EMERGENCY PREPAREDNESS AND RESPONSE

As members of a learning community we all have responsibilities for each other that extend beyond the teaching/learning experience and transcend our roles in that dimension. We are, as human beings, responsible for the protection and well-being of other members of our group, and one dimension of our individual and group responsibility in that area relates to how we prepare for, and respond to, emergencies. Toward that end, the following are important:

- In the event we need to evacuate the building, our primary route will be through the main doors to McGill Hall located on the west side of the building. If that route is blocked, our secondary route will be through the east door located toward the north end of this wing of the building.
- If you hear an alarm or are told to evacuate, always assume the emergency is real. Be sure to take coats, backpacks and valuables since the building may be closed for some time.
- Everyone should report to either the designated outdoor rally point or the indoor rally point (should conditions make it necessary to seek shelter in another building). Our outdoor rally point is in the area to the west of McGill Hall – at least 300 feet from the building exit. Our indoor rally point is in the Adams Center Lobby. We should reconvene as a group at the rally point so we can determine if anyone is missing.

- Do not use elevators as a means of evacuating, and do not use cell phones until safely away from the building.
- As the instructor of this course, I would ask students who feel they may require assistance in evacuating to privately inform me of that need. Together we will preplan appropriate assistance.
- I would also request that students with a medical condition that could present an emergency privately inform me of that situation. Again, this notification is so we can preplan an appropriate response should an emergency occur.

As soon as the class roster stabilizes, I will create a sign-up sheet for students to identify whether or not they possess current first aid and/or CPR certification. This information will be passed on to the Facility Emergency Coordinator for use should a need for first aid expertise arise.

Course Outline: Class will closely follow HHP 368 content. Additional readings may be assigned for the laboratory component to reinforce anatomical concepts.

Date	Topic	Reading/Assignments
August 27	Syllabus; Intro to Lab	Show up and participate
September 3	Anatomical Terminology	Bring lab from Moodle
September 10	Biomechanics, Neuromuscular Fundamentals	Bring lab from Moodle
September 17	Trunk and Spinal Column	Bring lab from Moodle
September 24	Practical Exam 1	
October 1	Head and Neck	Bring lab from Moodle
October 8	Shoulder Girdle	Bring lab from Moodle
October 15	Shoulder	Bring lab from Moodle
October 22	Elbow/Brachial Plexus	Bring lab from Moodle
October 29	Wrist/Hand	Bring lab from Moodle
November 5	Practical Exam 2	
November 12	Hip and Pelvis	Bring lab from Moodle
November 19	<i>NO CLASS – Thanksgiving Holiday!</i>	<i>Eat some PIE!</i>
November 26	Knee	Bring lab from Moodle
December 3	Ankle/Foot	Bring lab from Moodle
December 11	Final exam – 3:20-5:20	