

KINE 7410 – Laboratory Experience for Advanced Anatomical Principles (1 cr.)

Dr Weimar

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Course Description:

Clinically oriented human anatomy experience, designed to provide the student with an applied methodology to interact and utilize anatomical knowledge.

Course Objectives:

Demonstrate knowledge of basic anatomical terminology in order to describe movement and location of specific components of the body

Demonstrate knowledge of basic skeletal anatomy and muscle structure and function including basic neuromuscular functions

Demonstrate knowledge of how muscles employ the properties of lever systems to be efficient limb movers

Demonstrate knowledge of how the forces associated with mechanisms of injury can place specific muscles at risk

Demonstrate knowledge of how specific rehabilitation assessments and protocols employ the function of the specific muscle, for example, through manual muscle testing.

Grading criteria:

Final grades will be based on the performance of the student on the graded assignments using the following point allocation:

Labs: 13 @ 30 points each 390 points

Midterm 300 points

Final 310 points

For a total number of points = 1000

1000-900 points = A

890-800 points = B

790-700 points = C

690-600 points = D

<590 points = F

Textbook:

Floyd, R.T. (2009) Manual of Structural Kinesiology (17th Ed.). McGraw-Hill, New York, NY.

Web Site:

All lectures and course documents will be posted on Canvas

Attendance:

The student is responsible for all course material. Students are expected to participate in all class discussions and participate in all exercises. It is the student's responsibility to contact the instructor if assignment deadlines are not met. Students are responsible for initiating arrangements for missed work. All quizzes and exams will be announced. There will be a no unannounced quizzes. No make-up quizzes/exams will be allowed, and a score of 0 will be recorded for missed assignments.*

* Only applicable to unexcused absences. Please refer to the Student Policy eHandbook for the definitions of excused absences.

Excused absences will be treated as follows:

- a. Students must provide the instructor with a valid excuse upon returning to class (refer to Auburn University's policy concerning class attendance and excused/unexcused absences); and
- b. Make-up work developed and assigned at the discretion of the instructor must be completed within a week of the student returning to class.

If the student fails to follow these instructions the excused absence in question will be calculated as an unexcused absence. There are times when unforeseen circumstances will not allow you to attend class. Exceptions to this policy due to extreme circumstances are only permitted with the professor's timely knowledge and approval. Arrangements to make up missed assignments and examinations due to properly authorized excused absences shall be initiated by the student within a week of the excused absence as mandated by Auburn University. Again, the format of any make-up work/assignments will be at the instructor's discretion. Finally, the instructor will address all issues concerning absences at his/her discretion. Students are encouraged to refer to Auburn University's policies concerning attendance, absences, academic honesty, and make-up work as found in the Auburn Bulletin.

Honesty Code:

The University Academic Honesty Code and the *Student Policy eHandbook Rules and Regulations pertaining to Cheating* will apply to this class.

Accommodations:

Students who need accommodations are asked to arrange a meeting during office hours the first week of classes, or as soon as possible if accommodations are needed immediately. If you have a conflict with my office hours, an alternate time can be arranged. To set up this meeting, please contact me by E-mail. Bring a copy of your Accommodation Memo and an Instructor Verification Form to the meeting. If you do not have an Accommodation Memo but need accommodations, make an appointment with The Program for Students with Disabilities, 1244 Haley Center, 844-2096 (V/TT).

Course Content

Week 1 & Week 2: Review syllabus, expectations, introduction to anatomical terms, planes, axes and movements

Week 3: Bones and joints (Lab 1 due)

Week 4: Muscle, introduce nervous system (Lab 2 due)

Week 5: Ankle and injury mechanism (Lab 3 due)

Week 6: Knee and injury mechanism (Lab 4 due)

Week 7: Review & Midterm

Week 8: Hip: with injury and training considerations (Lab 5 due)

Week 9: Pelvic girdle (femur to pelvis): with injury and training considerations (Lab 6 due)

Week 10: Pelvic girdle (pelvis to spine): with injury and training considerations (lab 7 due)

Week 11: Spine and injury mechanisms (Lab 8 due)

Week 12: Shoulder girdle and injury mechanisms (Lab 9 due)

Week 13: Shoulder and injury mechanisms (Lab 10 due)

Week 14: Elbow and injury mechanisms (Lab 11 due)

Week 15: Wrist & hand and injury mechanisms (Lab 12 due)

Week 16: Review and Final (Lab 13 due)