Spring 2012 M. A. Urbin

**KINE 3650** - **MOTOR LEARNING & PERFORMANCE**

Lecture: Monday, Wednesday, Friday, 8:00-8:50 (HC 1203)

 Lab: 001) Tuesday, 1:00-2:50 (HC 1435)

 002) Thursday, 1:00-2:50 (HC 1435)

**Instructor**

Mike Urbin, Motor Behavior Center, 1466 Haley, E–mail: mau0003@auburn.edu. Office hours: By appointment

**Textbook**

Rose, D.J., & Christina, R.W. (2006). *A multilevel approach to the study of motor control and learning (2nd ed.)*.

**Evaluation**

Lab Activities (10%)

Exam x 2 (50%)

Online Quizzes (15%)

Presentation (25%)

**Lab Activities**

There will be a total of five lab activities over the course of the semester. The topic of each activity and corresponding textbook pages are provided below. Following data collection for each lab activity, you will be instructed to construct graphs, respond to questions, and evaluate results. Each will take place after it has been covered in lecture. Since we will not meet regularly for lab, you will be notified via e-mail the week before each lab activity will take place. If you cannot attend at the normally scheduled time, you must attend the same week during the time designated for the other section. The designated time for both sections is listed at the top of this syllabus.

Error Scores 36-41

Reaction Time, Stimulus Modality, & Foreperiod 32-34

Vision & Proprioception in Catching 107-108

Speed & Accuracy in Goal Directed Movement 159-161

Bilateral Transfer 376-379

Augmented Feedback Precision 303-316

**Exams**

The first portion of the course will focus on how human movement is controlled. As the title of the textbook indicates, we will discuss this from multiple levels of analysis (i.e., psychophysical, neuropsychological, and neurophysiological). For the most part, the progression of topics will adhere to the order in which they are presented in the textbook. Though I will cover certain topics in more or less depth, all of the content on the two exams will be discussed in lecture. The first exam will test you on the material covered to that point in the semester; the second exam will test you on material covered after the first exam to that point in the semester. Each exam will contain a combination of multiple choice and fill-in-the-blank questions.

**Online Quizzes**

On Fridays, there will be a 5-10 point quiz on Blackboard unless otherwise indicated during lecture. These quizzes will pertain exclusively to the material covered in lecture from the same week they are to be completed. They are meant to reinforce important concepts that may appear on exams. Each quiz will be timed and contain a combination of multiple choice and fill-in-the-blank questions. These quizzes will be available for you to complete from 8:00 am to 10:00 pm on Fridays. You must complete each quiz between these hours, as there will not be an opportunity to re-take them under any circumstance.

**Presentation**

The second portion of the course will focus on motor skill learning. In these weeks, you will give a presentation on one of the topics below with another student who has similar career aspirations. Each of you must identify a specific motor skill and population to which the topic applies. Though your presentations will be on the same topic, the motor skill and population you choose will be different from that of your partner. You will not be accountable for the quality of your partner’s presentation; however, I will ask you questions about the articles (s)he is presenting. Thus, you will need to be competent of your partner’s articles, as well as your own.

Next, you must conduct a search for two peer-reviewed, empirical reports published within the past ten years on this topic (Note: meta-analyses, literature reviews, and/or commentaries are not appropriate.). The specific requirements for this presentation will be delineated well before these presentations take place. In the interim, you will be notified of your particular topic, so you can begin the process of identifying a motor skill and population, as well as searching for and breaking down research articles. I strongly encourage you to meet with me for direction. The days on which we do not meet for lab are meant to provide you this opportunity. Please send an e-mail if you would like to meet during this time.

Verbal Instruction, Observational Learning

Augmented Feedback

Whole/Part, Constant/Variable, Blocked/Serial/Random (i.e., Contextual Interference Effect)

Mental Practice

**Final Letter Grade**

90.0 - 100 = A

80.0 - 89.9 = B

70.0 - 79.9 = C

60.0 - 69.9 = D

< 60.0 = F

**E–mail** - The University has requested that all students use their Auburn University e–mail accounts. This is the most efficient way for instructors to communicate with a large number of students. Please check your AU e-mail account regularly.

**Disability 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. If you have not established accommodations through the Office of Accessibility, but need accommodations, make an appointment with the Office of Accessibility, 1228 Haley Center, 844-2096 (V/TT).

**Important** - If, at any time during the semester, you have any issues or concerns pertaining to this course, you must contact me as soon as absolutely possible.