

Fall, 2012

M. G. Fischman

KINE 3650 (003) – MOTOR LEARNING & PERFORMANCE (4 cr.)

Lecture: Mon., Wed., Fri., 8:00 – 8:50 AM (HC 3195)

Lab: (001-Mon.), (002-Wed.), (003-Fri.) 10:00 – 11:40 AM (HC 1435)

Instructor

Dr. Mark G. Fischman, Motor Behavior Center, 1459 Haley, 844-1465. E-mail: fischmg@auburn.edu
Office hours: Mon Tue Wed Thu, 9 - 10 AM. Other times by appointment.

Graduate Assistant/Lab Instructor

Kip Webster, Motor Behavior Center, 1468 Haley, 844-1480. E-mail: ekh0007@tigermail.auburn.edu

Prerequisite

KINE 3020 – Scientific Foundations of Kinesiology

Textbook (Required)

Magill, R. A. (2011). *Motor Learning and Control: Concepts and Applications (9th ed.)*.

Course Description

Study of the processes that influence motor skill learning and performance from a behavioral level of analysis. Addresses the question of how humans learn and control simple and complex movement skills. Understanding the basic psychological processes in learning and control of movement will help teachers and coaches provide better instruction and practice for the motor skills performer. The course also has applications for those who plan to work in rehabilitation, physical therapy, occupational therapy, industry, or military settings.

Course Objectives

Upon completion of this course, students will understand:

1. The characteristics and measurement of motor skills;
2. Theoretical aspects of how the nervous system controls coordinated movement and learning, and limitations built into the system;
3. How a variety of instructional and practice conditions influence the acquisition of motor skills;
4. How individual differences among learners influence motor skill acquisition and performance.

Evaluation

Final Letter Grade

Exam #1	- 15%	90.0 – 100 = A
Exam #2	- 15%	80.0 – 89.9 = B
Exam #3	- 15%	70.0 – 79.9 = C
Final Exam	- 25%	60.0 – 69.9 = D
Lab Reports	- 30%	Under 60.0 = F

The first three exams consist of 70% for multiple-choice questions (70 questions) based on lectures, plus 30% for “Study Questions” from the textbook (see next page). The final exam is semi-comprehensive, consisting of new material (70 questions) plus 10 repeat questions from each of the three previous exams (100 total questions), plus study questions from the textbook.

Lecture Topic Outline and Schedule

Note. Exam dates are tentative and subject to change at the discretion of the instructor. Advanced notice will be given if there are any changes to the following schedule.

Chapter 1 – The Classification of Motor Skills
 Chapter 2 – The Measurement of Motor Performance
 Chapter 3 – Motor Abilities
 Chapter 5 – Motor Control Theories
 Chapter 7 – Performance and Motor Control Characteristics of Functional Skills (only pp. 135-150)
EXAM 1 – September 10 (Monday) & September 12 (Wednesday)

Chapter 6 – Sensory Components of Motor Control
 Chapter 7 – Performance and Motor Control Characteristics of Functional Skills (only pp. 158-164)
 Chapter 8 – Action Preparation
 Chapter 9 – Attention as a Limited Capacity Resource
EXAM 2 – October 10 (Wednesday) & October 12 (Friday)

Chapter 11 – Defining and Assessing Learning
 Chapter 12 – The Stages of Learning
 Chapter 13 – Transfer of Learning
 Chapter 14 – Demonstration and Verbal Instructions
EXAM 3 – November 2 (Friday) & November 5 (Monday)

Chapter 16 – Practice Variability and Specificity
 Chapter 17 – The Amount and Distribution of Practice
 Chapter 18 – Whole and Part Practice
 Chapter 19 – Mental Practice
 Chapter 15 – Augmented Feedback
FINAL EXAM – December 7 (Friday), 8:00 – 10:30 AM

“Study Questions” for Each Exam - due exam day; worth 30 points on each exam. These are to be **neatly typed**. Put your name at the top of each page. Number the questions as they are numbered in the textbook. **Please do not staple the pages together;** I will do that at the exam.

Exam 1 (September 10)
 Chapter 1, p. 21 (# 1, 3, 7)
 Chapter 2, pp. 46-47 (# 2, 3, 11)
 Chapter 3, pp. 61-62 (# 1, 3, 6)
 Chapter 5, p. 107 (# 1, 2, 7)
 Chapter 7, p. 168 (# 1, 2, 3)

Exam 2 (October 10)
 Chapter 6, p. 134 (# 2, 4, 5, 9)
 Chapter 7, p. 168 (# 8, 9)
 Chapter 8, p. 192 (# 2, 3, 4, 5)
 Chapter 9, pp. 219-220 (# 1, 2, 3, 4, 5)

Exam 3 (November 2)
 Chapter 11, pp. 263-264 (# 1, 2, 3, 5)
 Chapter 12, p. 288 (# 2, 3, 4, 5)
 Chapter 13, p. 305 (# 3, 4, 5)
 Chapter 14, pp. 330-331 (# 1, 3, 4, 5)

Final Exam (December 7)
 Chapter 16, p. 392 (# 1, 5, 7)
 Chapter 17, pp. 407-408 (# 2, 5, 8)
 Chapter 18, pp. 425-426 (# 2, 3, 5)
 Chapter 19, p. 440 (# 2, 4, 5)
 Chapter 15, p. 368 (# 2, 8, 11)

Lab Reports (Kip Webster will provide more details in your individual lab sections)

We are trying something different this semester. Lab reports will involve your verification of the accuracy of statements found in Magill's textbook. For 16 chapters in the textbook (details below), you will select a factual statement from one reference (the statement can be about an experiment's data or results, a definition, a figure, or a table) and provide the following information:

1. Type the reference citation (authors, article title, journal name, volume number, and page numbers). The reference list from the textbook is posted in Canvas.
2. Give the textbook page(s) where the citation is mentioned. What does the textbook say about the material? Quote the passage from the textbook.
3. Where is this found in the original source? What does the source say?
4. Is the textbook correct in its interpretation of the original source? Briefly justify your answer.
5. Also turn in a photocopy of the page(s) from the original source. Highlight or underline the relevant spots.

These reports are due on the following **Fridays**:

August 24	-	Chapters 2 and 3
September 7	-	Chapters 5 and 6
September 21	-	Chapters 7 and 8
October 5	-	Chapters 9 and 11
October 19	-	Chapters 12 and 13
November 2	-	Chapters 14 and 16
November 16	-	Chapters 17 and 18
November 30	-	Chapters 19 and 15

Class Policy Statements

The Tiger Cub no longer exists. General Counsel now maintains a single website that serves as the collection of all University Policies: <https://sites.auburn.edu/admin/universitypolicies/default.aspx>. However, below are several policies that are specific to this class:

Unannounced quizzes – There are no unannounced quizzes in this course.

Attendance - For lectures, attendance is optional; there are no penalties for missing lectures. However, I will take roll and if you do not attend, please do not ask me for a recommendation to PT school, OT school, or graduate school. If you miss an exam, legitimate documentation (e.g., medical, court appearance) must be provided and you must make up the exam within 24 hours of returning to class. See Kip Webster for her policy regarding lab attendance.

Plagiarism – Unless explicitly announced by your instructor, there are no group assignments or group projects in this course. All exams (including textbook questions), lab reports, and any other written work must reflect the individual efforts of each student.

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 an entire class, and the University will occasionally send global notices that are important for all students. I request that you check your AU e-mail account regularly.

Cell Phones - As a courtesy to everyone, please turn off your cell phone during class. If you are expecting an emergency call, please let me know at the beginning of class. Also, please do not text-message during class, or use laptops for anything other than looking at the lecture slides.

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).