









Instructor: Matthew W. Miller, Ph. D.

Email: mwm0024@auburn.edu

Office Hours: Wednesday 10:00 AM – 1:00 PM and by appointment

Office Location: Kinesiology Building, Room 164

Lab Instructor: Andrew Thompson, M. S.

Email: agt0006@auburn.edu

Office Hours: By appointment

Office Location: Kinesiology Building, Room 140

Course Number: KINE 3650

Class Meeting: Monday, Wednesday, Friday, 1:00 – 2:15 PM, Memorial Coliseum 2040

Lab Meeting: Tuesday, Thursday, 4:00 – 5:15 PM, Kinesiology Building 231

Credit Hours: 4.000



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Texts/Resources: Magill, R. A. (2014). *Motor Learning and Control: Concepts and Applications (10th ed.).*

Course Description: Study of the processes that influence motor skill learning and performance. 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.

Learning Outcomes: Students will understand the characteristics and measurement of motor skills; theoretical aspects of how the nervous system controls coordinated movement and learning, and limitations built into the system; how a variety of instructional and practice conditions influence the acquisition of motor skills; how individual differences among learners influence motor skill acquisition and performance.

Course Content

Unit	Topic	Readings (in textbook)
1	What is Motor Learning?	readings (in tentoson)
	Why Study Motor Learning?	
	How is Motor Learning Studied?	
	Classification of Motor Skills	Chapter 1
	Measurement of Motor Performance	Chapter 2
	Motor Abilities	Chapter 3
	Motor Control Theories	Chapter 5
	Motor Control Characteristics of Functional Skills	Chapter 7 (only pp. 139 - 150)
2	Sensory Components of Motor Control	Chapter 6
	Performance and Motor Control Characteristics of Functional Skills	Chapter 7 (only pp. 150 - 170)

	Action Preparation Attention as a Limited Capacity	Chapter 8 Chapter 9
_	Resource	
3	Defining and Assessing Learning	Chapter 11
	The Stages of Learning	Chapter 12
	Transfer of Learning	Chapter 13
	Demonstration and Verbal Instructions	Chapter 14
4	Practice Variability and Specificity	Chapter 16
	The Amount and Distribution of Practice	Chapter 17
	Whole and Part Practice	Chapter 18
	Mental Practice	Chapter 19
	Augmented Feedback	Chapter 15

No Class Meeting on the Following Days:

Monday May 25

Wednesday June 3

Friday June 5

Monday June 8

Friday July 3

Assessments:

Exams (subject to change)





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Unit 1 Exam: Friday May 29 and Monday June 1

Unit 2 Exam: Wednesday June 17 and Friday June 19

Unit 3 Exam: Monday July 6 and Wednesday July 8

Final Exam: Wednesday July 29

The first three exams consist of 70% for multiple-choice questions based on lectures from Units 1, 2, and 3, respectively, plus 30% for "Study Questions" from the textbook (see below for more information about these questions). The final exam is semicomprehensive, consisting mostly (70%) of new material with the remainder consisting of repeat questions from each of the three previous exams, plus Study Questions from the textbook. The multiple-choice portion of the exam will occur on the second day of each exam except for the Final Exam, which is only one day (thus, the multiple-choice portion will occur on this day).

Study Questions for each exam are due during the first 10 min of class on the first day of each exam except the Final Exam, which is only one day (thus, the Study Questions are due on this one day). Questions turned in after the first 10 min of class but still during the class meeting will lose 20%, and questions turned in after the class meeting will receive a 0. After turning in the study questions, class will proceed as normal (e.g., we will have lecture). The questions are to be typed and composed using proper grammar (grammar will determine 20% of the grade of these questions). Put your name at the top of each page. Number the questions as they are numbered in the textbook. The questions must be turned in as hard copies (not via email). Specific study questions are listed in the table on the next page.

Exam 1	Exam 2
Chapter 1: Questions 3 and 7	Chapter 6: Questions 2, 6, and 7
Chapter 2: Questions 1 and 4	Chapter 7: Questions 8 and 9
Chapter 3: Questions 4 and 6	Chapter 8: Questions 3 and 4
Chapter 5: Questions 3 and 5	Chapter 9: Questions 4, 5, and 6
Chapter 7: Questions 1 and 2	
Exam 3	Final Exam
Exam 3 Chapter 11: Questions 3, 4, and 5	Final Exam Chapter 16: Questions 2 and 5
Chapter 11: Questions 3, 4, and 5	Chapter 16: Questions 2 and 5
Chapter 11: Questions 3, 4, and 5 Chapter 12: Questions 1 and 3	Chapter 16: Questions 2 and 5 Chapter 17: Questions 7 and 8





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Class Reflection

The class reflection assignment is due prior to the start of the Final Exam on July 29. This assignment requires the response to a few overarching questions about the class. This assignment does not require research or studying; it only requires reflection. In other words, do not stress about this assignment; just complete it in a thoughtful manner.

Lab Reports

The lab will operate autonomously from the lecture, although the material will be interrelated. You will receive information about the lab at the first lab meeting (Tuesday May 19)

Grading:

Assignments contribute as follows to final class grade:

Exam 1: 15%

Exam 2: 15%

Exam 3: 15%

Final Exam: 20%

Lab: 30%

Class Reflection: 5%

Percentages will be associated with the following letter grades:

A: 90.0% ≤

B: $80.0\% \le$

C: $70.0\% \le$

D: $60.0\% \le$

F: 60.0% >





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Class Policies:

<u>Attendance</u>: Although attendance is not required, students are expected to attend all classes, and will be held responsible for any content covered in the event of an absence.

Excused Absences: Students are granted excused absences from class for the following reasons: illness of the student or serious illness of a member of the student's immediate family, the death of a member of the student's immediate family, trips for student organizations sponsored by an academic unit, trips for university classes, trips for participation in intercollegiate athletic events, subpoena for a court appearance, and religious holidays. Students who wish to have an excused absence from class for any other reason must contact Dr. Miller in advance of the absence to request permission. Dr. Miller will weigh the merits of the request and render a decision. When feasible, the student must notify Dr. Miller prior to the occurrence of any excused absences, but in no case shall such notification occur more than one week after the absence. Appropriate documentation for all excused absences is required. Please see the *Tiger Cub* for more information on excused absences.

<u>Make-Up Policy</u>: Students are only guaranteed the opportunity to make up assignments due to excused absences (i.e., students are not guaranteed the opportunity to make up assignments due to unexcused absences). Arrangement to make up assignments due to properly authorized excused absences must be initiated by the student within one week of the end of the period of the excused absences(s). Except in unusual circumstances, such as the continued absence of the student or the advent of university holidays, a make-up assignment will take place within two weeks of the date that the student initiates arrangements for it.

<u>Academic Honesty Policy</u>: All portions of the Auburn University student academic honesty code (Title XII) found in the *Tiger Cub* will apply to KINS 7750. All academic honesty violations or alleged violations of the SGA Code of Laws will be reported to the Office of the Provost, which will then refer the case to the Academic Honesty Committee.

<u>Disability Accommodations</u>: Students who need special accommodations in class, as provided by the Americans with Disabilities Act, should arrange for a confidential meeting with Dr. Miller during office hours in the first week of classes (or as soon as possible if accommodations are needed immediately). The student must bring a copy of their Accommodations Letter and an Instructor Verification Form to the meeting. If the





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student does not have these forms, they should make an appointment with the Program for Students with Disabilities, 1288 Haley Center, 844-2096 (V/TT).

<u>Course Contingency</u>: If normal class is disrupted due to illness, emergency, or crisis situation, the syllabus and other course plans and assignments may be modified to allow completion of the course.

<u>Professionalism</u>: As faculty, staff, and students interact in professional settings, we are expected to demonstrate professional behaviors as defined in the College's conceptual framework. These professional commitments or dispositions are listed below:

- o Engage in responsible and ethical professional practices
- o Contribute to collaborative learning communities
- o Demonstrate a commitment to diversity
- o Model and nurture intellectual vitality