

Course Syllabus

Course Title: KIN 5373 Motor Learning and Control

Course Credits: 3-0

Prerequisites or Co – requisites: None

Course Instructor: Jason B. Boyle, Ph.D.

Email: jbboyle@utep.edu

Course Description: Current theories and concepts involved in the processes of motor skill acquisition and performance from a behavioral/neural perspective. Major topics include the methodology of studying motor performance, neurophysiology of motor control, information processing, sensory, and central contributions to motor control, coordination, individual differences, conditions of practice, feedback, retention and transfer and the learning process. Practical application of principles is emphasized.

Course Introduction: This course is designed for Masters students enrolled in the MS-Kinesiology programs of Universities that are part of the UT-TeleCampus collaborative. Student backgrounds may vary from physical education teacher to athletic coach to physical therapist but these students are generally focused on improving their understanding of motor learning as it relates to application (practice) as opposed to research. The goal of this course is to help these individuals acquire the skills necessary to read, comprehend, synthesize, evaluate, and apply research results related to motor learning and control in their practice as a teacher, coach, therapist, or movement educator using a problem-based learning approach.

Course Goal: The goal of this course is to help students acquire the skills necessary to read, comprehend, synthesize, evaluate, and apply research results related to motor learning and control in their practice as a teacher, coach, therapist, or movement educator.

Objectives: The student upon completion of this course will:

1. Identify and apply different measures to document that a student is actually learning a skill
2. Explain the relationship between learning, memory, retention, and transfer and apply these principles to enhance memory and transfer in the performance of motor skills.
3. Describe the effects of feedback on learning and performance and demonstrate competence in the application of feedback to learners during learning experiences.
4. Discuss the effects of practice organization on learning and performance in class discussion and analyze practice organization during observation of a learning experience.
5. Identify and describe associated neural control areas.
6. Develop and implement a formal literature review

Suggested Materials:

- Motor Control and Learning: A behavioral emphasis. Richard A. Schmidt & Timothy Lee. 5th edition
- Associated scientific articles and book chapters as indicated.

Grading Policy:

Assignment	Points Possible
Quizzes 1-10 (2pts.)	20
Project Manuscript	10
Project Presentation	5
Exams 1 & 2 (20pts.)	40
Final Exam (comprehensive)	25
Total Points Possible	100

Grades will be assigned according to the following:

- 90 > = A
- 80-89 = B
- 70-79 = C
- 60-69 = D
- 59 < = F

Class Assignments

- Quizzes: Quizzes are composed of multiple choice and short answer questions. The intent of the quizzes is to provide you with an evaluation of the depth of your understanding of the material. There will also be questions over 1 seminal article assigned for that week.
- Project: Each student will select a single topic and complete a thorough literature search based on 2 articles in the last 10 years that examines the topic. A 7 minute presentation followed by a 3-5 Q&A session will be expected as well.
- Exams: Exams will consist of multiple choice, true false and short answer questions from the lecture material as well as the journal articles.
- Final Exam: A comprehensive exam will be given on the final day of the class. The exam will cover material from the lecture notes (similar to the quiz questions) as well as questions from the journal articles.

Technology in the classroom:

- All quizzes, class polls and exams will be administered via Blackboard in class. This means that it is the responsibility for each student to bring a fully charged, WIFI capable laptop or tablet with them to class. If you do not have one, you may check one out from the [library](#) free of charge. This will be a requirement in many of your professional KIN classes and is commonplace in almost all work settings KIN majors undertake after graduating.

Cellular Phones will not be an accepted form of technology

TEACHER RESPONSIBILITIES

1. I will provide you clear instructions on class expectations
2. I will provide feedback on your performance in a timely manner.
3. I will keep you informed about your progress in the class at all times, and will make time to discuss your needs.
4. I will leave myself open to suggestions about improvement of the class and class related activities.
5. I will do all I can to ensure your learning and success in this class.

Course Schedule Changes: As course instructor, I reserve the right to adjust the course syllabus or change assignments as needed. I will be sure to give you plenty of notice prior to any changes. Remember that our course syllabus and class schedule are tentative documents and can change!

Class Participation: Attendance will not be taken. However, given the high level of content and number of assignments, it is highly recommended that you attend class.

Academic Dishonesty Statement: Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It includes, but is not limited to, cheating, plagiarism, and collusion. Cheating may involve copying from or providing information to another student, possessing unauthorized materials during a test, or falsifying research data on laboratory reports. Plagiarism occurs when someone intentionally or knowingly represents the words or ideas of another person's as ones' own. And, collusion involves collaborating with another person to commit any academically dishonest act. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. Violations will be taken seriously and will be referred to the Dean of Students Office for possible disciplinary action. Students may be suspended or expelled from UTEP for such actions. Academic dishonesty is an assault upon the basic integrity and meaning of a University. Cheating, plagiarism, and collusion in dishonest activities are serious acts which erode the University's educational and research roles and cheapen the learning experience not only for the perpetrators, but also for the entire community. It is expected that UTEP students will understand and subscribe to the ideal of academic integrity and that they will be willing to bear individual responsibility for their work. Materials (written or otherwise) submitted to fulfill academic requirements must represent a student's own efforts. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. Violations will be referred to the

Dean of Students Office for possible disciplinary action. Students may be suspended or expelled from UTEP for such actions.

Copyright Notice: Many of the materials that are posted within this course are protected by copyright law. These materials are only for the use of students enrolled in this course and only for the purpose of this course. They may not be further retained or disseminated.

Disabled Student Statement: In Section 504 of the Vocational Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) of 1990, if a student needs an accommodation then the Office of Disabled Student Services located at UTEP need to be contacted. If you have a condition, which may affect your ability to perform successfully in this course, you are encouraged to discuss this in confidence with the instructor and/or the director of the Disabled Student Services. You may call 915.747.5148 for general information about the American with Disabilities Act (ADA) and the rights that you have as a UTEP student with a disability.

Individuals with disabilities have the right to equal access and opportunity. It is the student's responsibility to contact the instructor and The Disabled Student Services Office at The University of Texas at El Paso.

Technical Assistance: The University of Texas TeleCampus Help Desk is open 24/7 at no additional cost to you. You may call their toll free number 1.866.321.2988.

Technical Support

The University of Texas at El Paso provides free 24/7 Helpdesk support to academic students and faculty members teaching on-line through the [Tech Support Company]. The Helpdesk can provide answers to questions about using technology and services, as well as, technical support. Please visit the [technical support page](#) for more information.

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Kinesiology 5373: Fall 2018 Tentative Schedule

Date	Day	Topic	Assignments
8/30	THR	Welcome / Introduction to Motor Control and Learning	Bio Page
9/6	THR	Motor Neuroscience 1	Quiz (1)
9/13	THR	Motor Neuroscience 2	Quiz (2)
9/20	THR	Theories of Motor Control 1	Quiz (3)
9/27	THR	Theories of Motor Control 2	Quiz (4)
10/4	THR	Information Processing	Quiz (5)
10/11	THR	EXAM 1	
10/18	THR	Attention & Performance	Quiz (6)
10/24	THR	Principles of Speed and Accuracy	Quiz (7)
11/1	THR	Individual Differences and Capabilities	Quiz (8)
11/8	THR	Conditions of Practice	Quiz (9)
11/15	THR	Augmented Feedback	Quiz (10)

11/22	THR	<i>NO CLASS</i> Thanksgiving
11/29	THR	EXAM 2 Project Manuscript Due
12/6	THR	Project Presentations
12/13	THR	FINAL EXAM 7 – 9:45pm