

**The University of Texas at El Paso
College of Health Sciences
Department of Kinesiology- Masters of Science Program**

KIN 5373

Motor Neuroscience

Spring 2024

COURSE SYLLABUS

Credit Hours: 3

Contact Hours: 30 (15 weeks)

Schedule: - Online: Asynchronous through Blackboard

Coordinator/Instructor: Jason B. Boyle, Ph.D.
Associate Professor
Chair: Department of Kinesiology
Office: HSSN 443
Office hours: by appointment
Phone: Ext #7239
E-mail (best way to reach me): jbboyle@utep.edu

Course Description: The neural, physical, and behavioral processes that govern human motor performance across the lifespan are studied. Theories of motor learning and re-learning following trauma are emphasized, with attention given to how intervention and feedback variables impact the learning process. Factors that influence postural control and gait during life are addressed.

Methods of Instruction: Lecture Notes /Online Lecture Videos

Methods of Evaluation: Evaluation of course content will consist of three exams and twelve quizzes. A minimum average of 70% is needed to pass the course with a grade of "C." Please note, the UTEP masters of science program has a policy regarding the number of C's a student can make. Please see the graduate handbook or contact the graduate coordinator for more information regarding this policy.

Graded activities and their weight are as follows:

Graded Components	% final grade
Lecture Quizzes 1-12 (3 points each)	36
Exams 1, 2, 3 (20 points each)	60
Exit Survey (4 points)	4
Total	100%

Lecture Quizzes: There will be a quiz at the end of each Lecture. The questions will be related to the ppt notes and lecture video. The point of the quizzes is to prepare you for the exams. The quizzes will be closed note/closed book and taken on Respondus lockdown browser webcam enabled.

Exams: Three Exams will be administered. Conflicts with the exam dates must be brought up at least 1 week in advance to the instructor for accommodation. Conflicts notified after this period will not be accommodated. The exams will be closed note/closed book and taken on Respondus lockdown browser webcam enabled.

The following letter grade scale is used for the UTEP Department of Kinesiology:

<u>Letter Grade Scale</u>	<u>Numerical Grade Scale</u>
A	90-100
B	80-89
C	70-79
D	60-69
F	Below 60

Required Text: None

Questions / Sending me emails: I teach a number of classes each semester. If you would please make sure the following 3 things are clearly listed when writing me emails it would make both of our lives work so much better!

- 1- First and Last name
- 2- Class you are in (prefer the name & number: motor behavior / KIN 3332)
- 3- Clear subject line/message (for example: Question on exam 1 grades? Potential research topic?, etc.).

Resources Available for Student Success:

Confidential Resources:

- **Center for Accommodations and Support Services (CASS):** If you have or suspect a disability and need accommodations, you should contact the Center for Accommodations and Support Services (CASS) at 747-5148. You can also e-mail the office at cass@utep.edu or go by their office in Union Building East, room 106 (next to the UTEP post-office). For additional information, visit the CASS website at <http://sa.utep.edu/cass>.
- **The UTEP Student Health Center:** Union East Suite 100; 915.747.5624; www.utep.edu/chs/shc
- **The UTEP Counseling and Psychological Services:** 202 Union West, 915.747.5302; www.utep.edu/student-affairs/counsel

Additional Resources:

- Division of Student Affairs. 915.747.5076, www.utep.edu/student-affairs
- DPT Library Research Guide: <http://libguides.utep.edu/pt>
- Writing Center: 915.747.5112. <https://uwc.utep.edu>
- Computer Labs: Independent Learning Center (ILC), 1st floor Campbell Building
- Military Student Success Center: 915.747.5342, www.utep.edu/student-affairs/mssc
- Student Wellness Program. 915.747.6738, www.utep.edu/chs/wellness

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.

Course Content and Schedule: (Note: Students will be notified of changes via Blackboard or email.)

Spring 2024 Tentative ONLINE Schedule

Week 1	January 15 – January 20	- Welcome / Introduction Video - Lecture 1: Neuroanatomy	- Quiz 1
Week 2	January 22 – January 27	- Lecture 2: Synapses, Synaptic Transmission & Plasticity	- Quiz 2
Week 3	January 29 – February 3	- Lecture 3: Sensory Systems (part 1)	- Quiz 3
Week 4	February 5 – February 10	- Lecture 4: Sensory Systems (part 2)	- Quiz 4
Week 5	February 12 – February 17	- UNIT 1 EXAM (Lectures 1-4)	- Exam 1
Week 6	February 19 – February 24	- Lecture 5: The Motor System part 1 (Neurons, Spinal Cord & Tracts)	- Quiz 5
Week 7	February 26 – March 2	- Lecture 6: The Motor System part 2 (Basal Ganglia)	- Quiz 6
Week 8	March 4 – March 9	- Lecture 7: The Motor System part 3 (Cerebellum)	- Quiz 7

Week 9	March 11 – March 16	UTEP SPRING BREAK	
Week 10	March 18 – March 23	- Lecture 8: The Motor System part 4 (Injury States)	- Quiz 8
Week 11	March 25 – March 30	- UNIT 2 EXAM (5-8)	- Exam 2
Week 12	April 1 – April 6	- Lecture 9: Motor Learning (Theories)	- Quiz 9
Week 13	April 8 – April 13	- Lecture 10: Motor Learning (Information processing & Skill development)	- Quiz 10
Week 14	April 15 – April 20	- Lecture 11: Balance & Gait	- Quiz 11
Week 15	April 22 – April 27	- Lecture 12: Neurotypical Lifespan	- Quiz 12
Week 16	April 29 – May 4	- UNIT 3 EXAM (9-11) - Exit Survey	- Exam 3 - Exit Survey