

The University of Texas at Tyler
Department of Health and Kinesiology
Course Information
Fall 2022

Course Title: Biomechanics and Anatomical Kinesiology Laboratory

Course Number: KINE 3135

Credits: 1.00

Co-requisite: KINE 3334

Days/Hours of Lab:

KINE 3135.001 Thursday 9:30 am – 11:30 am

KINE 3135.002 Tuesday 9:30 am – 11:30 am

KINE 3135.003 Tuesday 11:30 am – 1:30 pm

Dates: 8/22/2022 – 12/10/2022

Lab Room: HPC 2165

Instructor Information

Name and Title: Yayoi S. Jones, MS

Office location: HPC2165

Email address: yjones@uttyler.edu

Office hours: By appointment

Textbook: Not Required

Catalog description:

Laboratory and field analyses related to mechanics and musculoskeletal involvement in movement.

Methods of Instruction

Student learning experiences include but are not limited to: a) problem solving situations and laboratory experiences, b) observations and analysis of movement performances, c) reading designated textbooks and supplementary materials upon assignment.

Student Learning Outcomes: After the full completion of this course the student will be:

1. Able to decide what biomechanical questions should be asked and studied related to activities of daily living, sports, basic movements and work related tasks.
2. Able to develop research to answer the biomechanical questions asked related to activities of daily living, sports, basic movements and work related tasks.
3. Able to list and explain the differences between qualitative and quantitative analysis.
4. Able to develop and implement kinetic and electromyography (EMG) research.

Evaluation:

The students will be evaluated on the basis of completing of laboratory experiences, and participation in analysis projects. A percentage of total points possible will determine the course grade.

90 – 100	A
80 – 89	B

70 – 79	C
60 – 69	D
0 – 59	F

Course Structure:

75 points	Attendance (5 points for each lab, 15 points for attendance of oral presentation)
25 points	Peer Evaluation within Group Members
100 points	Final Project Report
100 points	Final Oral Presentation
100 points	Project Proposal

Total Possible Points: 400 points

Communication with instructor

You may contact me throughout the semester using the messaging feature in Canvas. It is your responsibility to check your Patriots account email and Canvas message.

Note on message

Every message you send to me should include your first and last name, section number, and group number. If you do not include your name at the end of the message, the message will be discarded without reply. I check emails and Canvas message regularly on weekdays and try to respond within 24-48 hours. I do not respond immediately on weekends.

Canvas

Important class materials including syllabus, course schedule, assignments, announcements, and reminders will be posted in the Canvas course page. It is your responsibility to check the course page frequently.

Announcements

I will post announcements frequently during the semester. You will be able to see these announcements on your course page. Please check these frequently so you do not miss any important information.

E-mail communication from me to you

E-mail communications will be sent through the messaging feature in Canvas. You are responsible for knowing course information sent via announcements and emails sent through the Canvas site.

E-mail communication from you to me

You may contact me throughout the semester using the messaging feature in Canvas. If you email me without going through the Canvas site, please include the course number in the subject line. If you do not include your name at the end of the message, the message will be discarded without reply.

Biomechanics Project:

The purpose of the project is to allow the students the opportunity to utilize the biomechanics equipment to help answer interesting questions relating to movement. The students will be able to use Electromyography and a Force Plate to investigate movement. These projects, together with the principles acquired throughout class projects, will provide students a unique prospective to human movement. These projects will be written as well as presented orally via PowerPoint and poster presentation style.

EMG Project: Each laboratory group will be responsible for collecting EMG data on a selected topic (e.g., different abdominal exercises) and subsequent presentation of the findings in both written and oral form. Although both class lectures and laboratory times will be set aside for this project, significant out of class time will be required for the successful completion of this project. I feel that this project will not only be fun, but will give you, as students, a distinct advantage when applying for graduate schools, or jobs requiring movement analysis. Additional information will be forthcoming regarding EXACTLY what this project entails.

Kinetic Force Plate Project: Each laboratory group will be responsible for collecting kinetic force plate data on a selected topic (e.g., ground reaction forces) and subsequent presentation of the findings in both written and oral form. Although both class lectures and laboratory times will be set aside for this project, significant out of class time will be required for the successful completion of this project. I feel that this project will not only be fun, but will give you, as students, a distinct advantage when applying for graduate schools, or jobs requiring movement analysis. Additional information will be forthcoming regarding EXACTLY what this project entails.

Course Outline

Note: The following schedule is tentative. It may be adjusted, as needed, during the semester to better serve the educational needs of those enrolled in the class.

Week 1 (8/22-8/26)	Introduction to Biomechanics Lab
--------------------	----------------------------------

Week 2 (8/29-9/2)	EMG Lab
-------------------	---------

Week 3 (9/5-9/9)	Force Plate Lab
------------------	-----------------

Week 4 (9/12-9/16)	Motion Capture Lab
--------------------	--------------------

Week 5 (9/19-9/23)	Biomechanics Project: Forming Hypothesis
--------------------	--

Week 6 (9/26-9/30)	Biomechanics Project: Forming Hypothesis
--------------------	--

Week 7 (10/3-10/7)	Biomechanics Project: Pilot Study
--------------------	-----------------------------------

Week 8 (10/10-10/14)	Biomechanics Project: Collecting data
----------------------	---------------------------------------

Week 9 (10/17-10/21)	Biomechanics Project: Collecting data
----------------------	---------------------------------------

Week 10 (10/24-10/28)	Biomechanics Project: Data Analysis
-----------------------	-------------------------------------

Week 11 (10/31-11/4)	Biomechanics Project: Data Analysis/Results
----------------------	---

Week 12 (11/7-11/11)	Biomechanics Project: Working on the project report
----------------------	---

Week 13 (11/14-11/18)	Final Presentation
-----------------------	--------------------

Week 14 (11/21-11/25)	Thanksgiving Break: No Class
-----------------------	------------------------------

Week 15 (11/28-12/2)	No Class
----------------------	----------

University Policies

UT Tyler Honor Code

Every member of the UT Tyler community joins together to embrace: Honor and integrity that will not allow me to lie, cheat, or steal, nor to accept the actions of those who do.

Students Rights and Responsibilities

To know and understand the policies that affect your rights and responsibilities as a student at UT Tyler, please follow this link: <http://www.uttyler.edu/wellness/rightsresponsibilities.php>

Campus Carry

We respect the right and privacy of students 21 and over who are duly licensed to carry concealed weapons in this class. License holders are expected to behave responsibly and keep a handgun secure and concealed. More information is available at <http://www.uttyler.edu/about/campus-carry/index.php>

UT Tyler a Tobacco-Free University

All forms of tobacco will not be permitted on the UT Tyler main campus, branch campuses, and any property owned by UT Tyler. This applies to all members of the University community, including students, faculty, staff, University affiliates, contractors, and visitors. Forms of tobacco not permitted include cigarettes, cigars, pipes, water pipes (hookah), bidis, kreteks, electronic cigarettes, smokeless tobacco, snuff, chewing tobacco, and all other tobacco products. There are several cessation programs available to students looking to quit smoking, including counseling, quitlines, and group support. For more information on cessation programs please visit www.uttyler.edu/tobacco-free.

Grade Replacement/Forgiveness and Census Date Policies

Students repeating a course for grade forgiveness (grade replacement) must file a Grade Replacement Contract with the Enrollment Services Center (ADM 230) on or before the Census Date of the semester in which the course will be repeated. Grade Replacement Contracts are available in the Enrollment Services Center or at <http://www.uttyler.edu/registrar>. Each semester's Census Date can be found on the Contract itself, on the Academic Calendar, or in the information pamphlets published each semester by the Office of the Registrar.

Failure to file a Grade Replacement Contract will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates are eligible to exercise grade replacement for only three course repeats during their career at UT Tyler; graduates are eligible for two grade replacements. Full policy details are printed on each Grade Replacement Contract.

The Census Date is the deadline for many forms and enrollment actions of which students need to be aware. These include:

- Submitting Grade Replacement Contracts, Transient Forms, requests to withhold directory information, approvals for taking courses as Audit, Pass/Fail or Credit/No Credit.
- Receiving 100% refunds for partial withdrawals. (There is no refund for these after the Census Date)
- Schedule adjustments (section changes, adding a new class, dropping without a "W" grade)
- Being reinstated or re-enrolled in classes after being dropped for non-payment
- Completing the process for tuition exemptions or waivers through Financial Aid

State-Mandated Course Drop Policy

Texas law prohibits a student who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at another 2-year or 4-year Texas public college or university. For purposes of this rule, a dropped course is any course that is dropped after the census date (See Academic Calendar for the specific date).

Exceptions to the 6-drop rule may be found in the catalog. Petitions for exemptions must be submitted to the Enrollment Services Center and must be accompanied by documentation of the extenuating circumstance. Please contact the Enrollment Services Center if you have any questions.

Disability/Accessibility Services

In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA) the University of Texas at Tyler offers accommodations to students with learning, physical and/or psychological disabilities. If you have a disability, including a non-visible diagnosis such as a learning disorder, chronic illness, TBI, PTSD, ADHD, or you have a history of modifications or accommodations in a previous educational environment, you are encouraged to visit

<https://hood.accessiblelearning.com/UTTyler> and fill out the New Student application. The Student Accessibility and Resources (SAR) office will contact you when your application has been submitted and an appointment with Cynthia Lowery, Assistant Director of Student Services/ADA Coordinator. For more information, including filling out an application for services, please visit the SAR webpage at <http://www.uttyler.edu/disabilityservices> , the SAR office located in the University Center, # 3150 or call 903.566.7079.

Student Absence due to Religious Observance

Students who anticipate being absent from class due to a religious observance are requested to inform the instructor of such absences by the second class meeting of the semester.

Student Absence for University-Sponsored Events and Activities

If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence. At that time the instructor will set a date and time when make-up assignments will be completed.

Social Security and FERPA Statement

It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number. The electronic transmission of grades (e.g., via e-mail) risks violation of the Family Educational Rights and Privacy Act; grades will not be transmitted electronically.

Emergency Exits and Evacuation

Everyone is required to exit the building when a fire alarm goes off. Follow your instructor's directions regarding the appropriate exit. If you require assistance during an evacuation, inform your instructor in the first week of class. Do not re-enter the building unless given permission by University Police, Fire department, or Fire Prevention Services.

Student Standards of Academic Conduct

Disciplinary proceedings may be initiated against any student who engages in scholastic dishonesty, including, but not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts.

i. "Cheating" includes, but is not limited to:

- copying from another student's test paper;
- using, during a test, materials not authorized by the person giving the test;
- failure to comply with instructions given by the person administering the test;
- possession during a test of materials which are not authorized by the person giving the test, such as class notes or specifically designed "crib notes". The presence of textbooks constitutes a violation if they have been specifically prohibited by the person administering the test;
- using, buying, stealing, transporting, or soliciting in whole or part the contents of an unadministered test, test key, homework solution, or computer program;
- collaborating with or seeking aid from another student during a test or other assignment without authority;
- discussing the contents of an examination with another student who will take the examination;

- divulging the contents of an examination, for the purpose of preserving questions for use by another, when the instructors has designated that the examination is not to be removed from the examination room or not to be returned or to be kept by the student;
 - substituting for another person, or permitting another person to substitute for oneself to take a course, a test, or any course-related assignment;
 - paying or offering money or other valuable thing to, or coercing another person to obtain an unadministered test, test key, homework solution, or computer program or information about an unadministered test, test key, home solution or computer program;
 - falsifying research data, laboratory reports, and/or other academic work offered for credit;
 - taking, keeping, misplacing, or damaging the property of The University of Texas at Tyler, or of another, if the student knows or reasonably should know that an unfair academic advantage would be gained by such conduct; and
 - misrepresenting facts, including providing false grades or resumes, for the purpose of obtaining an academic or financial benefit or injuring another student academically or financially.
- ii. “Plagiarism” includes, but is not limited to, the appropriation, buying, receiving as a gift, or obtaining by any means another’s work and the submission of it as one’s own academic work offered for credit.
 - iii. “Collusion” includes, but is not limited to, the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any section of the rules on scholastic dishonesty.
 - iv. All written work that is submitted will be subject to review by plagiarism software.

UT Tyler Resources for Students

- UT Tyler Writing Center (903.565.5995), writingcenter@uttyler.edu
- UT Tyler Tutoring Center (903.565.5964), tutoring@uttyler.edu
- The Mathematics Learning Center, RBN 4021, this is the open access computer lab for math students, with tutors on duty to assist students who are enrolled in early-career courses.
- UT Tyler Counseling Center (903.566.7254)

Note: This syllabus is subject to change based on the needs of the class.