

**The University of Texas at Tyler**  
**Department of Health and Kinesiology**  
**KINE 3334.001: Biomechanics and Anatomical Kinesiology**  
**Fall 2021: Course Information**

**Instructor:** Yayoi S. Jones, MS  
**Office location:** HPC2165  
**Email address:** yjones@uttyler.edu  
**Office hours:** By appointment

**Days/Hours of Class: Hybrid Class**

<b>Face to Face Meeting</b>	<b>Thursday 12:30 pm- 1:50 pm: Room HPC 2255</b>
<b>Online Component</b>	<b>Canvas (<a href="http://www.uttyler.edu/canvas/">http://www.uttyler.edu/canvas/</a>)</b>

**Dates:** 8/23/2021 – 12/11/2021

**Required Materials:**

Textbook: Susan Hall, Basic Biomechanics, 9th ed. McGraw Hill Publishing.  
ISBN: 9781265748593

- Scantron (Style #25420). Available in the UT Tyler Bookstore
- #2 Pencils and erasers
- Notebook
- Calculator

**Catalog description:**

Analysis of human movement, applying principles from Newtonian mechanics and study of structure and function of major joints and muscle groups.

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

1. Able to identify and discuss the major terminology and concepts related to human movement analysis.
2. Able to decide what biomechanical questions should be asked and studied related to activities of daily living, sports, basic movements and work related tasks.
3. Able to develop research to answer the biomechanical questions asked related to activities of daily living, sports, basic movements and work related tasks.
4. Able to distinguish kinematic from kinetic research related to the mechanics of human motion.
5. Able to list and explain the differences between qualitative and quantitative analysis.
6. Able to develop and implement kinematic, kinetic, and electromyography (EMG) research.

**Prerequisites:** Credit in Anatomy and Physiology I & II, or CI

**Co-requisite:** Biomechanics and Anatomical Kinesiology Laboratory (KINE 3135)

**Methods of Instruction**

To meet student learning objective, student learning experiences include but not limited to:

1. Online lectures
2. Classroom demonstrations and discussion (face-to-face)
3. Problem solving situations and laboratory experiences

4. Observations and analysis of movement performances
5. Reading designated textbooks and supplementary materials upon assignment.

**Assessment and Evaluation:**

The students will be evaluated on the basis of performance on periodic three examinations, weekly face-to-face quizzes and class participation. A percentage of total points possible determine the course grade.

90% – 100%	A
80% – 89%	B
70% – 79%	C
60% – 69%	D
Below 59%	F

**Course Structure:**

300 points	Three Non-Cumulative Exams (Exam I, Exam II, and Final Exam)
100 points	Face to Face (In Class) Quizzes

Total Possible Points: 400 points

**Course Format:**

This class will consist of both online component and Face to Face. Modules are available in Canvas. Students are expected to watch all posted lectures and/or videos, and are responsible for all material before Face to Face class.

Face-to-Face Quizzes:

The in-class quizzes will be given at the end of class for lecture material.

Make-up work

Make-up exams and quizzes will be given only according to University policy. On rare occasions (and for a valid reason), make-up exams and quizzes can be scheduled by pre-arrangement with the instructor *before* the date of the exam or quizzes. If any exam or quizzes are missed due to illness, injury, or family emergency, the instructor should be notified prior to or within 24 hours of the missed exam.

**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 and course number. 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. This class uses Canvas extensively. Make sure you are familiar with Canvas and our course in particular.

### 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.

### Canvas Online Component

Students are expected to watch all posted lectures and/or videos, and are responsible for all material. Your success in this class will depend on the effort you put forth.

### 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.

## 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.**

<b>Week</b>	<b>Date</b>	<b>Topic</b>
<b>1</b>	26-Aug	Face to Face: Syllabus Complete Module#1 in Canvas: What is Biomechanics?
<b>2</b>	2-Sep	Face to Face: Quiz #1 Complete Module #2 in Canvas: Kinematic Concepts for Analyzing Human Motion
<b>3</b>	9-Sep	Face to Face: Quiz #2 Complete Module #3 in Canvas: Kinetics Concepts for Analyzing Human Motion
<b>4</b>	16-Sep	Face to Face: Quiz #3 Complete Module #4 in Canvas: The Biomechanics of Bones, Joints and Muscles
<b>5</b>	23-Sep	Face to Face: Quiz #4 No Module. Review for Exam 1
<b>6</b>	30-Sep	<b>Face to Face: Exam 1</b> Complete Module #5 in Canvas: The Biomechanics of the Human Upper Extremity
<b>7</b>	7-Oct	Face to Face: Quiz # 5 Complete Module #6 in Canvas: The Biomechanics of the Human Lower Extremity
<b>8</b>	14-Oct	Face to Face: Quiz #6 Complete Module #7 in Canvas: The Biomechanics of the Human Spine
<b>9</b>	21-Oct	Face to Face: Quiz # 7 Review for Exam 2

<b>10</b>	28-Oct	<b>Face to Face: Exam 2</b> Complete Module #8 in Canvas: Linear Kinematics of Human Movement
<b>11</b>	4-Nov	Face to Face: Quiz #8 Complete Module #9 in Canvas: Angular Kinematics of Human Movement
<b>12</b>	11-Nov	Face to Face: Quiz #9 Complete Module #10 in Canvas: Linear Kinetics of Human Movement
<b>13</b>	18-Nov	Face to Face: In class activity for Module #10 Linear Kinetics of Human Movement (Continued)
<b>14</b>	25-Nov	No class. Thanksgiving Holiday
<b>15</b>	2-Dec	Face to Face: Quiz # 10 Review for Final Exam
<b>16</b>	9-Dec	Final Exam (exact date TBD)

## 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](http://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.
- i. “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.
  - ii. “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.
  - iii. 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](mailto:writingcenter@uttyler.edu)
- UT Tyler Tutoring Center (903.565.5964), [tutoring@uttyler.edu](mailto: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.**