# Auburn University

# College of Education

# School of Kinesiology

# Course Syllabus

## Syllabus for KINE 3621-003 (Spring 2020

### Course Information:

Course Number: KINE 3621

Course Title: Biomechanics of Human Movement Laboratory

Course Hours: 1 semester hour

Prerequisites: none

### Faculty Information:

Instructor: Kenzie Friesen and Jerad Kosek

Office Location: Kinesiology Building Rm 122 (Kenzie) and Rm 003 (Jerad)

Office Hours: MW 11:00am – 1:00pm or by appointment

Email**:** kbf0017@auburn.edu and jjk0026@auburn.edu

***Secondary Contact:*** Dr. Wilburn: czw0043@auburn.edu

### Course Descriptions:

This course is designed to enhance a fundamental understanding of the anatomical, neuromuscular, and biomechanical principles of human movement through applicable laboratory activities.

### Student Learning Outcomes:

The students will be able to:

1. learn a systematic approach to the analysis of human motion;

2. understand the anatomical, neuromuscular, and biomechanical fundamentals of human motion;

3. apply anatomical and biomechanical analyses to the study and improvement of a broad spectrum of movement activities
4. utilize various biomechanical research equipment to supplement class lectures

### Course Overview

Week 1. Research Process

Week 2. Qualitative and Quantitative

Week 3 Anthropometrics and Muscles

Week 4. Throwing Lab and Mechanics

Week 5. Running Lab
Week 6. Linear and Angular Kinematics of Motion
Week 7. Foot Lab
Week 8. Final Project

### EVALUATION METHODS:

#### Course Requirements:

Students will complete 7 laboratory assignments and 1 lab final project. Each laboratory assignment will be worth 25 points and the final lab project will be out of 75 points.

**Lab Assignment – 70%**

**Lab Final Project – 30%**

90 - 100 --- A

80 - 89 --- B

70 - 79 --- C

60 - 69 --- D

Under 60 --- F

### Class Policy Statements:

Participation: Students are expected to participate in all laboratory activities. It is the student’s responsibility to contact the instructor **PRIOR** to class if an illness or emergency requires the student to miss class. Any missed work due to a University approved excuse MUST be made-up within 7 days. A piece of documentation regarding the excused absence will be required to submit “missed” work.

Attendance/Absences: Attendance is required at each class meeting. A doctor’s statement for verification of sickness is required and should clear the absence with the instructor the day they return to class. Other unavoidable absences from campus must be documented and cleared with the instructor in advance. No late assignments will be accepted outside of extreme circumstances noted by the instructor. Please carefully adhere to established assignment deadlines. In such a case the instructor will have the discretion of lowering the assignmenta percentage of the overall grade for each day that it is late.

Accommodations: Students who need accommodations are asked to arrange a meeting during office hours the first week of classes, or as soon as possible if accommodations are needed immediately. If you have a conflict with my office hours, an alternative time can be arranged. To set up this meeting, please contact me by e-mail. Bring a copy of your Accommodation Memo and an Instructor Verification Form to the meeting. If you do not have an Accommodation Memo but need accommodations, make an appointment with the Program for Students with Disabilities at 1244 Haley Center, 844-2096 (V/TT).

Honesty Code: The University Academic Honesty Code and the student e-book Rules and Regulations pertaining to Cheating will apply to this class.

 Classroom and Laboratory Policies:

* All electronic devices must be turned off during laboratory periods, NO phones or text messaging during lab is allowed. All phones and electronic devices must be put away prior to the start of class. If these are found out – The student will be asked to leave the class.
* Students are expected to arrive to class on time. Those arriving late will not be permitted to hand in homework. Likewise, classes will end promptly at the scheduled time.
* Students are expected to come to lab having completed all assigned work.
* While the laboratory sessions are more relaxed, students are expected to conduct themselves in professional and safe manner.
* **Students are not permitted to play with laboratory equipment. Students will be removed from class if caught playing with any lab or sporting equipment without permission.**
* Lab attire consists of loose fitting gym shorts, t-shirts, and sneakers for easy movement. In order to participate in laboratory sessions, students must arrive to class in appropriate attire. Students not properly dressed will be asked to leave and will not be allowed to make up the assignments.

Professionalism: 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:

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

 Email: Tigermail is the official means of communication for Auburn University. The instructor will communicate with the class regularly through Tigermail. You are responsible for this information, so please check your account regularly.