# Auburn University

# College of Education

# School of Kinesiology

# Course Syllabus

## Syllabus for KINE 4563 (Fall 2020)

### Course Information:

Course Number: KINE 4563

Course Title: Sport Technique and Movement Analysis

Course Hours: 3 semester hours

Prerequisites: none

### Faculty Information:

Instructor: Kenzie Friesen

Office Location: Kinesiology Building 122

Office Hours: M/W 8 AM – 10AM or by appointment

Email**:** kbf0017@auburn.edu

### Recommended Text :

Carr, G. A., & Carr, G. (2004). *Sport mechanics for coaches*. Human Kinetics.

### Course Meetings:

N/A

### Course Description:

This course is designed to enhance skills and knowledge for observing, evaluating, and correcting movement patterns. Application of these concepts, as well as methods of motion analysis covered in this course, will enable the student to evaluate human performance in greater detail.

 Student Learning Outcomes:

The students will be able to:

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

2. identify the anatomical contributions of normal and pathological motions;

3. utilize proper terminology to identify observed motions

### Course Overview (Tentative Schedule of Topic- exact timing may change)

The powerpoints/lectures within each modules cover the material needed to complete the assignments/discussions

Week 1. Introduction, Terminology, and Skeletal Principles of Movement

* Familiarize yourself with canvas
* Begin going through Module 1 materials

Week 2. Skeletal and Muscular Principles of Movement

* Complete Module 1:
	+ Discussion 1: Fundamentals of Movement Due Aug 27
	+ Assignment Quiz 1 Due Aug 28

Week 3. Muscular and Mechanical Principles of Movement

* Complete Module 2:
	+ Discussion 2 Due Sept 3
	+ Assignment 2 Due Sept 4

Week 4. Mechanical Principles of Movement

* Complete Module 3:
	+ Assignment 3 Due September 11

Week 5. Mechanical Principles of Movement

* Complete Module 4:
	+ Discussion 3 Due September 17
	+ Assignment 4 Due September 18

Week 6. Movement Analysis Components

* Complete Module 5:
	+ Discussion 4 Due September 24
	+ Assignment 5 Due September 25

Week 7. Movement Analysis Skill- Optical Motion Capture

* Complete Module 6:
	+ Midterm Due Sunday, October 4

Week 8. Techniques Associated with Optical Motion Capture

* Complete Module 7
	+ Assignment 6 Due October 9

Week 9. Identifying and Correcting Movements

* Complete Module 7.5
	+ Check-in Meeting

Week 10. Techniques Associated with Optical Motion Capture/Movement Analysis Pre-Intervention

* Complete Module 9
	+ Discussion 4 Due October 22nd
	+ Assignment 7 Due October 23rd

Week 11. Intervention and Final Project

* Begin work on “Project Filming and Introduction”
* This can be found under Module 10

Week 12. Intervention and Final Project

* Complete Module 10
	+ Project Filming and Introduction Due November 6

Week 13. Intervention and Final Project

* Complete Module 11
	+ Check-in Meeting

Week 14. Intervention and Final Project

Week 15. Movement Analysis Post-Intervention and Final Project

* Final Project Due November 25

### EVALUATION METHODS:

#### Course Requirements:

A project, mid-term exam, final exam, and weekly assignments will be given during this course.

- Original discussion threads are due Thursdays at 11:59pm

- Discussion thread replies are due Sundays at 11:59pm.

- Assignments/Quizzes are due Fridays at 11:59pm.

Late work will need to be accompanied by documentation verifying a University approved absence inhibited the student from turning in their work on time. Late work with no university approved absence will be subject to point decreases and will not be accepted after a week following the due date, except for under extraneous circumstances.

#### Grading and Evaluation Procedure:

Assignments......50% (This includes a Canvas discussion that will occur every Thursday)

Mid-Term Exam......20%

Final Project....30%

90 - 100 --- A

80 – 89.99 --- B

70 – 79.99 --- C

60 – 69.99 --- D

Under 60 --- F

### Class Policy Statements:

Participation: Students are expected to participate in Canvas discussions. It is the student’s responsibility to contact the instructor if concepts and materials need further explanation.

Email: Tigermail is the official means of communication for Auburn University. The instructor will communicate with the class through Tigermail regularly. You will be responsible to obtain this information and should check your Tigermail account frequently.

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).

Questions/Help: Students are encouraged to ask questions and seek extra help on a regular basis. Please do not wait until the day before a quiz or exam.

Honesty Code: The University Academic Honesty Code and the Student Policy e-Handbook Rules and Regulations pertaining to cheating will apply to this course.

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

Contingency Statement: If normal class and/or lab activities are disrupted due to illness, emergency, or crisis situation (such as an H1N1 flu outbreak), the syllabus and other course plans and assignments may be modified to allow completion of the course. If this occurs, an addendum to your syllabus and/or course assignments will replace the original materials. In the event that a back-up instructor is necessary, Kevin Giordano will fill in for me, and class will continue to be delivered online.