# Auburn University

# College of Education

# School of Kinesiology

# Course Syllabus

## Syllabus for KINE 4563 (Fall 2018)

### Course Information:

Course Number: KINE 4563

Course Title: Sport Technique and Movement Analysis

Course Hours: 3 semester hours

Prerequisites: none

### Faculty Information:

Instructor: Dr. Christopher Wilburn

Office Location: Kinesiology Building 103

Office Hours: MW 10 AM- 12PM, TH 10 AM -11:30 AM

Email**:**czw0043@auburn.edu

Phone number: 334-844-1462

### 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)

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

Week 2. Skeletal and Muscular Principles of Movement

Week 3 Muscular and Mechanical Principles of Movement

Week 4. Mechanical Principles of Movement

Week 5. Mechanical Principles of Movement

Week 6. Movement Analysis Components   
Week 7. Movement Analysis Skill- Optical Motion Capture

Week 8. Techniques Associated with Optical Motion Capture

Week 9. Identifying and Correcting Movements   
Week 10. Techniques Associated with Optical Motion Capture

Week 11. Movement Analysis Pre-Intervention

Week 12. Intervention and Final Project  
Week 13. Intervention and Final Project

Week 14. Intervention and Final Project

Week 15. Movement Analysis Post-Intervention and Final Project

### EVALUATION METHODS:

#### Course Requirements:

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

#### Grading and Evaluation Procedure:

Assignments......30% (This includes a Canvas discussion that will occur every Wednesday)

Project………30%

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

Final Exam....20%

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 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