

KINE 7436 – Dartfish II
Spring 2014

Meetings: Monday: 4:45-6:15 PM

Instructor: Dr. Wendi Weimar - Biomechanics - 844-1468 weimawh@auburn.edu

Course Description: The purpose of this course is to introduce the techniques and develop the skills needed to perform a biomechanical analysis of a specific sport technique.

Course Objectives: Upon completion of this course, students will: 1. Be able to break a skill into its component parts; 2. Be able to isolate the waypoints of skills; 3. Be able to analyze a videotaped performance; 4. Be able to videotape a performance to observe the critical components of a skill; 5. Be able to provide appropriate feedback to the performer regarding their skill performance;

Course Requirements: (1) You are required to come to class and participate (2) You are required to successfully complete: assignments, midterm and final (3) You are required to successfully complete the semester long project

Course Contents:

- Week 1. Review of skill analysis for a basic skill– prepared by instructor
Lab 1: Breaking a skill into components
- Week 2. Review of skill analysis for an advanced skill - prepared by instructor
Lab 2: Breaking advanced skill into components
- Week 3. Advanced camera basics
Lab 3: Capturing video in different lighting
- Week 4. Uploading and editing video– prepared by instructor
Lab 4: Upload video and trim
- Week 5. Using “in the action” feature– prepared by instructor
Lab 5: Capturing movement using “in the action” feature
- Week 6. Trimming “in the action” video – prepared by instructor
Lab 6: Trim “in the action” video.
- Week 7. Use “in the action” to provide immediate feedback – prepared by instructor
Lab 7: Use “in the action” to provide immediate feedback
- Week 8. Synchronize 2 videos from different angles – prepared by instructor
Lab 8: Synchronize 2 videos from different angles & provide feedback
- Week 9. Use “blending tool”- prepared by instructor
Lab 9: Use “blending tool” to compare movement of 2 performances & provide feedback to performer
- Week 10. Review progress of semester project
- Week 11. The “tracking tool” - prepared by instructor
Lab 11: Use the tracking tool
- Week 12. Physics concept I - prepared by instructor
Lab 13: Use the tracking tool to teach a physics concept
- Week 13. The “stomotion” tool - prepared by instructor
Lab 12: Use the “stomotion tool”
- Week 14. Physics concept II- prepared by instructor
Lab 14: Use stomotion tool to teach a physics concept

Week 15. Defend semester project

Course Requirements:

Laboratory work, midterm and final exam will be given during this course.

8. Grading and Evaluation Procedure:

Lab work 30%	90 - 100	--- A
Mid Exam 30%	80 - 89	--- B
Final Exam 40%	70 - 79	--- C
		60 - 69	--- D
		Under 60	--- F

Class Policy Statements:

Participation: Students are expected to participate in all class discussions and participate in all homework and laboratory exercises. It is the student's responsibility to contact the instructor if assignment deadlines are not met. Students are responsible for initiating arrangements for missed work.

Attendance/Absences: Attendance is required at each class meeting. If an exam is missed, a make-up exam will be given only for University-approved excuses as outlined in the Student Policy eHandbook. Arrangement to take the make-up exam must be made in advance. Students who miss an exam because of illness need a doctor's statement for verification of sickness 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**.

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 Policy eHandbook** pertaining to cheating and plagiarism will apply to this class.

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

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

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 commitment to diversity
- Model and nurture intellectual vitality