**AUBURN UNIVERSITY**

**SYLLABUS**

**KINE 3620 – Biomechanical Analysis of Human Movement**

* **4 credit hours; LEC 3, LAB 1.**

**Summer 2014**

Lecture: MTWRF- 10:00 am – 11:30 pm. STACT 206.

Lab: MTWRF - 11:30am - 12:30 pm. Kinesiology Building 014.

Course Master: Wei Liu, PhD.

Lab Instructor: John Fox M.S

Office: 301 Wire Road (New Kinesiology Building), Room 107

Office hours: Tue & Thurs: 9:00 AM to 11:00 AM

Email: [wzl0022@auburn.edu](mailto:wzl0022@auburn.edu)

Phone: 334-844-1597

Office Hours:by appointment

**Texts or Major Resources:**

Hamilton, N., Weimar, W. & Luttgens, K. (2011) Kinesiology – Scientific Basis of Human Motion. Twelfth Edition, McGraw-Hill: New York, New York. (ISBN 978-0-07-297297-9).

Power point presentations and handouts will be provided through Canvas.

**Course Description:**

This course is designed to develop a fundamental understanding of the anatomical, neuromuscular, and biomechanical principles of human movement. Application of these concepts, as well as methods of motion analysis covered in this course, will enable the student to evaluate human locomotion in greater detail.

**Student Learning Outcomes:**

The student will demonstrate an understanding of and the ability 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 graphical and biomechanical analyses to the study and improvement of a broad spectrum of movement activities.

**COURSE REQUIREMENTS:**

Three midterm exams and one final exam will be given during this course. In addition to exams, laboratory assignments will be graded. If a computer problem occurs with the Canvas system you must notify the instructor immediately.

**GRADING SCALE:**

The grading scale for this course is as follows:

**A = 90 – 100% Labs:**  25%

**B = 80 – 89% Midterm Exams:** [3 @ 15% each] 45%

**C = 70 – 79% Final Exam:** 30%

**D = 60 – 69% Total:** 100%

**F = Under 59%**

A grade will be given based on the accumulation of the “exams, and lab assignments.”

**STATEMENT OF STUDENT ACCOMMODATION**

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). <https://fp.auburn.edu/disability/faculty/syllabus.asp>.

**E-MAIL** Outlook360 is the official means of communication for Auburn University. The instructor will communicate with the class through Outlook360. You are responsible for this information, so please check your account regularly.

**CONTINGENCY PLAN**

If normal classes are disrupted due to a high number of students experiencing illness or an emergency or crisis situation (such as a widespread 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. Additionally, course content and assignments may be made available to you via Blackboard.

**HONESTY CODE**

The University Academic Honesty Code and the **Student Policy eHandbook** [www.auburn.edu/studentpolicies] pertaining to cheating and plagiarism will apply to this class.

**CLASS POLICY STATEMENTS**

Participation: Students are expected to participate in all class discussions. 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 excuses MUST be made-up within 5 days.

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**. Arrangements to take the make-up exam **must be made in advance** and the exam taken within 5 days of the missed exam. Students who miss an exam because of illness should inform the instructor prior to the missed class if possible. A doctor’s statement for verification of sickness is required and should clear the absence with the instructor the day the return to class. Other unavoidable absences from campus must be documented and cleared with the instructor in advance. No late assignments or quizzes 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.

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.

Classroom and Laboratory Policies:

* All electronic devices must be turned off during classroom or laboratory periods, with the exception of laptops, which may be used for note taking only. NO phones or text messaging during class 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 class having completed the reading and prepared to discuss them.
* 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.
* 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, they 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

AU Evaluation Dates: AU eValuate Spring Semester

OPEN: TBA

CLOSE: TBA

**Tentative Class Schedule:** (Subject to change)

Week Topic

Week 1 Introduction/Musculoskeletal/Neuromuscular system

Week 2 Vector Analysis I, II, Exam 1

Week 3 Kinematics I, Kinematics II, Exam 2

Week 4 Kinetics I, II, Graphic Approach I, II

Week 5 Biomechanics of UE, LE, Exam 3

**The above content, schedule and procedures in this course are subject to amendments at the discretion of the instructor.**