Course Description:
A study of human musculoskeletal anatomy and principles of biomechanics. Prerequisite BSc 251 or consent of instructor. This course emphasizes the effects of joint structures and muscles on movement while providing an introduction to the principles of biomechanics. A portion of this class is web-assisted in eCollege.

Course Objectives:
1) Use precise, well-defined terminology to describe motion.
2) Describe linear and angular descriptors of human motion (kinematics).
3) Describe the relationship between linear and angular characteristics of motion.
4) Explore the basic causes of human movement (kinetics).
5) Qualitatively analyze movements in sport applications.
6) Explore the skeletal system, articular system, arthrokinematics, muscular system, nervous system, and others in relationship to movement.
7) Investigate posture and gait and their relationship to movement.

Course Requirements:

Class Participation, Group/ Homework Activities, Quizzes (potentially in eCollege)
The student will participate in several class, group, and homework activities (including quizzes) throughout the semester. Some will be graded, and some will not. Student attendance will be averaged into this category. All attendance and activities will be worth 200 points (or 20% of your final grade).

Tests:
Students will take 3 tests throughout the semester worth 100 points each. Tests will cover lectures, class activities, and the book. (300 points, 30% of final grade)

Article Summaries
Each student will be required to write Two (2) summaries of kinesiology and biomechanics articles. Articles should be from journals such as: The Physician and Sportsmedicine, Medicine and Science in Sports & Exercise, or Research Quarterly for Exercise and Sport. Each article summary should be 1.5-2.0 pages typed, Times New Roman Font, with one-inch margins. Reference should be listed at the top of the summary. Each article summary is worth 50 points each. (10% of your final grade)
**Sport Skill Analysis:**
Students will create a detailed analysis of a sport skill (approved by the instructor). (15% of your grade)

**Laboratory Experiences:**
You must attend all labs. All lab write-ups are required and are due at the beginning of the next lab. Ms. Holly Langford, lab graduate assistant, will conduct labs and collect all lab write-ups from you. Laboratory write-ups will consist of 25% of your final grade.

**Course Grading:**
1. Participation (attendance, homework, quizzes) 200 points  25%
2. Tests (3) 300 points  30%
3. Article Summaries (4) 100 points  10%
4. Sport Skill Analysis (1) 150 points  10%
5. Labs 250 points  25%
Total: 1000 points  100%

**Grading Scale:**

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<td>A</td>
<td>100 – 90%</td>
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<td>F</td>
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**Student Conduct:**
This course will cover biomechanics and kinesiology. Students should feel comfortable discussing their individual views and experiences concerning each subject. Students should also respect each other’s differences and respect each other as each issue is discussed. If the instructor deems that individual students are not being respectful toward each other or the instructor, then these students will be asked to leave (and eventually drop the course if the negative conduct continues). Please refer to pages 42 – 45 of the TAMU-C Student Guidebook’s Codes of Conduct for details.

**Students with Disabilities:**
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services
Texas A&M University-Commerce
Gee Library, Room 132
Phone (903) 886-5150 or (903) 886-5835
Fax (903) 468-8148
StudentDisabilityServices@tamu-commerce.edu

**Plagiarism/academic dishonesty**---Plagiarism is copying another’s work as your own without proper acknowledgment. Be aware that the intent to deceive the reader does not have to be present for plagiarism to occur. Also ignorance of the definition of plagiarism is also not an excuse and will result in the same consequences as for someone who has knowledge of it. Plagiarism is also not restricted to copying the writings of others, nor to stealing from established authors; it includes the ideas of your fellow students. If you plagiarize in this class (including cheating on tests) you will receive an automatic “F”. If you are in any doubt as to whether your work constitutes plagiarism or academic dishonesty, please discuss this with me confidentially.
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