I. COURSE DESCRIPTION
An introduction to the fundamental principles of human physiology and their application to kinesiology.

II. RATIONALE
The course provides students with a foundational knowledge of the human physiology system and its application to human movement. The course content is fundamental to all upper division kinesiology courses.

III. STATE ADOPTED PROFICIENCIES FOR TEACHERS AND/OR ADMINISTRATORS/COUNSELORS

1. LEARNER-CENTERED KNOWLEDGE: The teacher possesses and draws on a rich knowledge base of content, pedagogy, and technology to provide relevant and meaningful learning experiences for all students.

2. LEARNER-CENTERED INSTRUCTION: To create a learner-centered community, the teacher collaboratively identifies needs; and plans, implements, and assesses instruction using technology and other resources.

3. EQUITY IN EXCELLENCE FOR ALL LEARNERS: The teacher responds appropriately to diverse groups of learners.

4. LEARNER-CENTERED COMMUNICATION: While acting as an advocate for all students and the school, the teacher demonstrates effective professional and interpersonal communication skills.

5. LEARNER-CENTERED PROFESSIONAL DEVELOPMENT: The teacher, as a reflective practitioner dedicated to all students’ success, demonstrates a commitment to learn, to improve the profession, and to maintain ethics and personal integrity.
IV. TExES COMPETENCIES

Domain II - HEALTH-RELATED PHYSICAL FITNESS
Competency 006 - The teacher understands major body systems, principles of physical fitness development and training, and the benefits of a healthy, active lifestyle.

V. COURSE OBJECTIVES/LEARNING OUTCOMES

1. Understand the mechanical properties of cells and tissues and how cells are compartmentalized and form tissues within the body.
2. Discover how biological energy is acquired, transferred, and used to do biological work, how molecular interactions play a major role in protein function, and how compartmentation of enzymes is essential for organizing and separating metabolic processes.
3. Explain how substances move across cellular membranes in response to gradients and molecular interactions.
4. Understand that functional control systems require efficient communication using a combination of chemical and electrical signals.
5. Know how the endocrine system plays a major role in communication and control of physiological processes via hormonal interactions and pathways.
6. Learn how the nervous system is responsible for maintaining homeostasis and how the divisions of the nervous systems (including the central nervous system, the sensory systems, and efferent division) correlate with the different steps in a reflex pathway.
7. Understand the structure-function relationships and mechanical properties of muscles.
8. Exemplify the importance of the cardiovascular system, blood flow, and the control of blood pressure.
9. Analyze the cellular and protein components of blood and their functions.
10. Understand the mechanics of the respiratory system and how these demonstrate mass flow, homeostatic balance, mass balance, and the law of mass action.
11. Learn that the urinary and renal systems play a vital role in human physiology in terms of absorption, excretion, and filtration.
12. Understand that energy balance and metabolism are dependent upon intake, output, and the glucose that powers the brain.
13. Discover how the digestive system maintains mass balance and homeostasis through the process of secretion, absorption, and movement of nutrients and molecules across membranes.
14. Develop a basic understanding of the endocrine system, its function on growth and metabolism, and how each hormone has stimuli that initiate its secretion and feedback signals that modulate its release.
15. Know that the function of the immune system is based on chemical communication and
molecular interactions between receptors, antibodies, and antigens that work together to fight pathogens.

VI. COURSE TOPICS

2. Basic Chemistry 10. Blood
3. Cells and Tissues 11. The Cardiovascular System
4. Skin and Body Membranes 12. The Lymphatic System / Body Defenses
5. The Skeletal System 13. The Respiratory System
7. The Nervous System 15. The Urinary System
8. Special Senses 16. The Reproductive System

VII. INSTRUCTIONAL METHODS AND ACTIVITIES

A. Traditional Experiences (readings, discussions, exams)
B. Online Experiences (presentations, written assignments, videos, interactive learning activities, Interactive Anatomy CD-ROM, quizzes, exams)

VIII. EVALUATION AND GRADE ASSIGNMENT

A. COURSE REQUIREMENTS
   1. Complete all assigned readings.
   2. Complete all weekly assignments and associated learning activities.
   3. Complete all quizzes and exams.
   4. Complete all written assignments.
   5. Demonstrate computer proficiency through the use of Blackboard and the Internet.

**NOTE: Late assignments will not be accepted.** All written work must exhibit a college level competency in spelling, grammar, punctuation, and style. Written work with significant mechanical flaws will not be accepted.

B. EVALUATION

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<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Tests (4)</td>
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<tr>
<td>Quizzes</td>
<td>30%</td>
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<tr>
<td>Written Assignments</td>
<td>20%</td>
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<td>100%</td>
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C. GRADING SCALE

90-100% A
80-89% B
70-79% C
60-69% D
59% or less F

IX. COURSE SCHEDULE AND POLICIES

A. TENTATIVE SCHEDULE

June 4 - First Day of Class
June 6 - Syllabus, Intro Assignment, Pretest Due
June 11 - Assignment 1 - Chapters 1-4 Due
June 12 - Test I Due
June 18 - Assignment 2 - Chapters 5-8 Due
June 19 - Test II Due
June 25 - Assignment 3 - Chapters 9-12 Due
June 26 - Test III Due
July 2 - Assignment 4 - Chapters 13-16 Due
July 3 - Test III Due

B. COURSE POLICIES

1. ATTENDANCE POLICY

Students are required to punctually attend all class meetings (when applicable) and complete all assignment deadlines. Excused absences are limited to participation in a TAMUCC sanctioned event or participation in a religious holy day as outlined in the University catalog. Any assignment, quiz, or test missed due to a TAMUCC sanctioned event must be completed prior to the absence. Coursework, assignments, and quizzes may not be made up due to tardiness. Consistent attention to assignment instructions and submission deadlines is critical to the successful completion of this course.

2. STUDENT CONDUCT

Professional behavior is expected of all students. Inappropriate course conduct (cursing, disruption, etc.) may result in a reduced final grade or failure of the course.

3. ACADEMIC HONESTY

University students are expected to conduct themselves in accordance with the highest standards of academic honesty. Academic misconduct for which a student
is subject to penalty includes all forms of cheating, such as illicit possession of examinations or examination materials, forgery, or plagiarism. (Plagiarism is the presentation of the work of another as one’s own work.)

Disciplinary action for academic misconduct is the responsibility of the faculty member assigned to the course. The faculty member is charged with assessing the gravity of any case of academic dishonesty, and with giving sanction to any student involved. Penalties that may be applied to individual cases of academic dishonesty include one or more of the following:

i. Written reprimand;
   2. Requirement to re-do work in question;
   3. Requirement to submit additional work;
   4. Lowering of grade on work in question;
   5. Assigning grade of “F” to work in question;
   6. Assigning grade of “F” for course;
   7. Recommendation for more severe punishment.

ii. If the faculty member determines that assigning a grade of “F” to the course is the appropriate penalty and this disciplinary action occurs prior to the deadline for dropping courses, the student forfeits his/her right to drop the course in question.

The faculty member may file a record of cases of academic dishonesty, including a description of the disciplinary action taken, along with any materials involved, with his or her college dean and the Office of Student Affairs. The office of the academic dean of the college in which the offense took place will maintain records of all cases of academic dishonesty reported for a period of not more than two years.

Any student who has been penalized for academic dishonesty has the right to appeal the judgment or the penalty assessed. The Appeals Procedure will be the same as that specified for grade appeals. The grade appeals procedure may be found in the University Rules manual.

**NOTE: Printing online tests and/or quizzes is strictly prohibited.**

C. STUDENT RESPONSIBILITY

The student is expected to comply with the rules in the Student Handbook and Student Code of Conduct, as well as the processes in the latter, which are administered by the Office of Student Affairs. The Student Handbook and Student Code of Conduct are accessible at http://www.tamucc.edu/~students.
X. REQUIRED TEXTBOOK:


**Note: You must purchase the 9th edition to have access to the correct review questions for the weekly assignments.**

XI. BIBLIOGRAPHY


XII. GRADE APPEALS

As stated in University Rule 13.02.99.C2, Student Grade Appeals, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the
appropriateness of the appeal. A student with a complaint about a grade is encouraged to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Rule13.02.99.C2, Student Grade Appeals, and University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules Web site at http://www.tamucc.edu/provost/university_rules/index.html. For assistance and/or guidance in the grade appeal process, students may contact the Office of Student Affairs.

XIII. DISABILITIES ACCOMMODATIONS

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 believe you have a disability requiring an accommodation, please call or visit Disability Services at (361) 825-5816 in Driftwood 101.

If you are a returning veteran and are experiencing cognitive and/or physical access issues in the classroom or on campus, please contact the Disability Services office for assistance at (361) 825-5816.
KINE 2325.W01 - Physiological Aspects of Kinesiology
Syllabus Acknowledgment Form

I, (print name)____________________________________________, certify by my signature that I have read and understand the class policies that have been presented in the class syllabus for KINE 2325-Physiological Aspects of Kinesiology at Texas A&M University-Corpus Christi. Signature ___________________________Date _______________

**This form may be submitted via Scanned or Image Attachment to BlackBoard Email or to lindsey.jarrett@tamucc.edu. You must submit a Scanned or Picture image of your ACTUAL signature.**