I. COURSE DESCRIPTION
This course is an introduction to the physiological, anatomical, and psychological aspects of nutrition in relation to human performance and optimal health. Special emphasis is placed on sport and fitness enhancement and achievement of peak training levels, through proper nutrient ingestion.

II. RATIONALE
An introduction to sport nutrition is provided to prepare the potential physical educator, coach, or fitness trainer to recognize and understand the dietary needs of the human body, with particular emphasis on sport and fitness performance. Methods for effectively designing eating plans for a variety of athletic programs are taught. Classroom and practical experience opportunities will be provided to increase student awareness of the varied nutrient needs of athletes of different sports and training levels, as well as to facilitate the application of knowledge to real-life situations.

III. STATE ADOPTED PROFICIENCIES FOR TEACHERS AND/OR ADMINISTRATORS/COUNSELORS
A. 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.
B. 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.
C. EQUITY IN EXCELLENCE FOR ALL LEARNERS: The teacher responds appropriately to diverse groups of learners.
D. LEARNER-CENTERED COMMUNICATION: While acting as an advocate for all students and the school, the teacher demonstrates effective professional and interpersonal communication skills.
E. 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. TEXAS COMPETENCIES
Professional Development 02 – Elementary and 03 – Secondary:
Domain I– Promoting Learners’ Physical Development
Competency 001 – The teacher uses an understanding of human developmental processes to nurture student growth through developmentally appropriate instruction.
Competency 002 – The teacher considers environmental factors that may affect learning in designing a supportive and responsive classroom community that promotes all students’ learning and self-esteem.
Competency 003 – The teacher appreciates human diversity, recognizing how diversity in the
classroom environment in which both the diversity of groups and the uniqueness of individuals are recognized and celebrated.

Competency 005 – The teacher understands how motivation affects group and individual behavior and learning and can apply this understanding to promote student learning.

Competency 009 – The teacher uses a variety of instructional materials and resources to support individual and group learning.

Competency 010 – The teacher uses processes of informal and formal assessment to understand individual learners, monitor instructional effectiveness, and shape classroom climate that promotes the lifelong pursuit of learning and encourages cooperation, leadership, and mutual respect.

Professional Development 02 – Elementary and 03 Domain III – Understanding the Teaching Environment

Competency 011 – The teacher structures and manages the learning environment to maintain a classroom climate that promotes the lifelong pursuit of learning and encourages cooperation, leadership, and mutual respect.

Competency 012 – The teacher is a reflective practitioner who knows how to promote his or her own professional growth.

Physical Education (09 – all Level) - Domain I – Promoting Learners’ Physical Development

Competency 001 – The physical education teacher uses knowledge of motor development and principles of motor learning to facilitate learners’ development of fundamental movement skills and perceptual awareness skills.

Domain II – Promoting Learners’ Affective, Social and Cognitive Development

Competency 005 – The physical educator knows how to enhance learners’ self-concept and emotional well-being through physical activity.

Competency 006 – The physical educator understands socialization processes related to physical activity and uses this understanding to foster learners’ social development.

Domain III – Implementing Physical Education Programs

Competency 008 – The physical educator knows how to develop and implement physical education programs that are responsive to learner needs and interests.

Competency 009 – The physical educator uses assessment as an integral part of physical education instruction, applying informal and formal methods to understand learners, monitor instructional effectiveness, and guide instruction.

Competency 010 – The physical educator manages physical education classes in ways that establish a positive learning climate that encourages achievement and positive attitudes in all learners.

Competency 011 – The physical educator understands legal, ethical, medical, and safety issues relating to physical education programs and applies this understanding in a variety of contexts.

ATHLETIC TRAINING EDUCATION PROGRAM COMPETENCIES

Competencies & Proficiencies per Commission on Accreditation of Athletic Training Education (CAATE) 4th ed:

**Risk Management Competencies Taught & Evaluated:**

- **RM-C8:** Explain the principles of effective heat loss and heat illness prevention programs. Principles include, but are not limited to, knowledge of the body’s thermoregulatory mechanisms, acclimation
and conditioning, fluid and electrolyte replacement requirements, proper practice and competition attire, and weight loss.

**Prevention and Health Promotion (PHP)**
- **PHP-24:** Summarize the general principles of health maintenance and personal hygiene, including skin care, dental hygiene, sanitation, immunizations, avoidance of infectious and contagious diseases, diet, rest, exercise, and weight control.
- **PHP-42:** Explain how changes in the type and intensity of physical activity influence the energy and nutritional demands placed on the client/patient.
- **PHP-43:** Describe the principles and methods of body composition assessment to assess a client’s/patient’s health status and to monitor changes related to weight management, strength training, injury, disordered eating, menstrual status, and/or bone density status.
- **PHP-45:** Describe contemporary weight management methods and strategies needed to support activities of daily life and physical activity.
- **PHP-46:** Identify and describe the signs, symptoms, physiological, and psychological responses of clients/patients with disordered eating or eating disorders.
- **PHP-48:** Explain the known usage patterns, general effects, and short- and long-term adverse effects for the commonly used dietary supplements, performance enhancing drugs, and recreational drugs.
- **PHP-49:** Identify which therapeutic drugs, supplements, and performance-enhancing substances are banned by sport and/or workplace organizations in order to properly advise clients/patients about possible disqualification and other consequences.

**Pharmacology Competencies Taught & Evaluated:**
- **PH-C10:** Explain the known usage patterns, general effects, and short- and long-term adverse effects for the commonly used performance-enhancing substances.

**Psychosocial Competencies Taught & Evaluated:**
- **PS-C10:** Identify the symptoms and clinical signs of common eating disorders and the psychological and sociocultural factors associated with these disorders.

**Nutritional Aspects Competencies Taught & Evaluated:**
- **NU-C1:** Describe personal health habits and their role in enhancing performance, preventing injury or illness, and maintaining a healthy lifestyle.
- **NU-C2:** Describe the USDA’s “My Pyramid” and explain how this can be used in performing a basic dietary analysis and creating a dietary plan for a patient.
- **NU-C3:** Identify and describe primary national organizations responsible for public and professional nutritional information.
- **NU-C4:** Identify nutritional considerations in rehabilitation, including nutrients involved in healing and nutritional risk factors (e.g., reduced activity with the same dietary regimen and others).
- **NU-C5:** Describe common illnesses and injuries that are attributed to poor nutrition (e.g., effects of poor dietary habits on bone loss, on injury, on long-term health, and on other factors).
- **NU-C6:** Explain energy and nutritional demands of specific activities and the nutritional demands placed on the patient.
- **NU-C7:** Explain principles of nutrition as they relate to the dietary and nutritional needs of the patient (e.g., role of fluids, electrolytes, vitamins, minerals, carbohydrates, protein, fat, and others).
• NU-C8: Explain the physiological processes and time factors involved in the digestion, absorption, and assimilation of food, fluids, and nutritional supplements. Further, relate these processes and time factors to the design and planning of preactivity and postactivity meals, menu content, scheduling, and the effect of other nonexercise stresses before activity.

• NU-C9: Describe the principles, advantages, and disadvantages of ergogenic aids and dietary supplements used in an effort to improve physical performance.

• NU-C10: Explain implications of FDA regulation of nutritional products.

• NU-C11: Identify and interpret pertinent scientific nutritional comments or position papers (e.g., healthy weight loss, fluid replacement, pre-event meals, and others).

• NU-C12: Explain principles of weight control for safe weight loss and weight gain, and explain common misconceptions regarding the use of food, fluids, and nutritional supplements in weight control.

• NU-C13: Explain consequences of improper fluid replacement.

• NU-C14: Describe disordered eating and eating disorders (i.e., signs, symptoms, physical and psychological consequences, referral systems).

• NU-C15: Identify effects of macronutrients (e.g., saturated fats, incomplete proteins, and complex carbohydrates) on performance, health, and disease.

• NU-C16: Describe signs, symptoms, and physiological effects of mineral deficiency (e.g., iron, and calcium), and identify foods high in specific mineral content.

• NU-C17: Identify and explain food label Daily Value recommendations and common food sources of essential vitamins and minerals in using current USDA Dietary Guidelines.

• NU-C18: Describe the principles and methods of body composition assessment (e.g., skinfold calipers, bioelectric impedance, body mass index [BMI]) to assess a patient’s health status and to monitor progress in a weight loss or weight gain program for patients of all ages and in a variety of settings.

• NU-C19: Explain the relationship between basal metabolic rate, caloric intake, and energy expenditure in the use of the Food Pyramid Guidelines.

• NU-C20: Identify the nutritional benefits and costs of popular dietary regimen for weight gain, weight loss, and performance enhancement.

**Nutritional Aspects Proficiencies Taught**

• NU-P3: Provide educational information about basic nutritional concepts, facts, needs, and food labels for settings associated with physically active individuals of a wide range of ages and needs.

V. **COURSE OBJECTIVES AND OUTCOMES**

Given lectures, demonstrations, out-of-class readings, applied assignments, and class discussions, the student will be able to:

A. Define the terms: nutrition, nutrient, ergogenic aid, and supplement.

B. Identify and discuss the six essential nutrients and their roles in basic health and sport performance.

C. Identify and discuss nutritional factors related to common chronic pathologies of health and fitness.

D. Demonstrate an ability to design a nutritional plan for athletes in varied sports.

E. Identify and discuss ergogenic aids and supplements, and their role in sport performance.

F. Demonstrate a basic knowledge of current laws/regulations regarding the use of ergogenic aids/supplements.

G. Identify and discuss physiological and psychological factors involved in weight gain and weight loss, and the potential ramification to athletic performance.

H. Demonstrate the ability to analyze nutrient content of individual foods, food groups, and meal plans.
VI. COURSE TOPICS
Orientation/introduction
Eating behaviors and Guidelines Reading labels
Digestion/absorption
Essential nutrients
Obesity and weight management
Nutritional Considerations for Sports Performance
Nutrient Timing Strategies for Specific Sports
Ergogenic aids and supplements
Nutrition regulation/legislation
Role of nutrition/exercise/recovery in sport
Current issues in Sports and Exercise Nutrition

VII. INSTRUCTIONAL METHODS AND ACTIVITIES
Methods and activities for instruction include:
A. Traditional Experiences include online lectures, discussions, and group activities.
B. Clinical Experiences include applied assignments that compliment lectures and text readings.
C. Field Experiences will be incorporated by allowing the students to apply lecture materials to real world situations/scenarios and write a report for several applied assignments.

VIII. EVALUATION AND GRADE ASSIGNMENT
The methods of evaluation and the criteria for grade assignment are:
A. Methods and Percentage of Final Course Grade Each Assessment constitutes
   Evaluation will be based on successful completion of the following activities:

<table>
<thead>
<tr>
<th>Assessment Type</th>
<th>Items Included in Type</th>
<th>Overall Percentage of Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignments</td>
<td>Syllabus Acknowledgement; Pre-Lecture Assignment (PLA), Tutorial</td>
<td>30%</td>
</tr>
<tr>
<td></td>
<td>Homework (HW); Self-Study Quiz</td>
<td></td>
</tr>
<tr>
<td>Quizzes</td>
<td>Chapter Quizzes</td>
<td>35%</td>
</tr>
<tr>
<td>Tests</td>
<td>Exams I - IV, Diet Assessment Project</td>
<td>35%</td>
</tr>
</tbody>
</table>

B. Grading Scale
   A – 89.50 – 100
   B – 79.50 – 89.49
   C – 69.50 – 79.49
   D – 59.50 – 69.49
   F – Below 59.49
IX. COURSE SCHEDULE AND OTHER COURSE POLICIES

_Tentative Course Outline:_
Please keep in mind that this course is completely online and is a half-semester in length. This means you are responsible for keeping up with due dates and staying current with the material.

<table>
<thead>
<tr>
<th>Date</th>
<th>Class Material</th>
<th>Materials Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 6</td>
<td><em>Classes Begin; Intro, Syllabus, AS1 and Quiz 1 Open</em></td>
<td>Syllabus Acknowledgement, AS1, Q1 Due</td>
</tr>
<tr>
<td>July 7</td>
<td>Ch. 1 – Introduction to Nutrition for Health, Fitness, and Sports Performance</td>
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</tr>
<tr>
<td>July 8</td>
<td>Ch. 2 - Healthful Nutrition for Fitness and Sport: The Consumer Athlete</td>
<td>AS2 and Q2 Due</td>
</tr>
<tr>
<td>July 9</td>
<td>Ch. 3 - Human Energy</td>
<td>AS3 and Q3 Due</td>
</tr>
<tr>
<td>July 10</td>
<td></td>
<td>Exam I (Chapters 1-3) Due</td>
</tr>
<tr>
<td>July 13</td>
<td>Ch. 4 - Carbohydrates: The Main Energy Food</td>
<td>AS4 and Q4 Due</td>
</tr>
<tr>
<td>July 14</td>
<td>Ch. 5 - Fat: An Important Energy Source during Exercise</td>
<td>AS5 and Q5 Due</td>
</tr>
<tr>
<td>July 15</td>
<td>Ch. 6 - Protein: The Tissue Builder</td>
<td>AS 6 and Q6 Due</td>
</tr>
<tr>
<td>July 16</td>
<td></td>
<td>Exam II (Chapters 4-6) Due</td>
</tr>
<tr>
<td>July 17</td>
<td>Ch. 7 - Vitamins: The Organic Regulators</td>
<td>AS7 and Q7 Due</td>
</tr>
<tr>
<td>July 20</td>
<td>Ch. 8 - Minerals: The Inorganic Regulators</td>
<td>AS8 and Q8 Due</td>
</tr>
<tr>
<td>July 20</td>
<td>Ch. 9 - Water, Electrolytes and Temperature Regulation</td>
<td>AS9 and Q9 Due</td>
</tr>
<tr>
<td>July 22</td>
<td></td>
<td>Exam III (Chapters 7-9) Due</td>
</tr>
<tr>
<td>July 24</td>
<td>Ch. 10 - Body Weight and Composition for Health and Sport</td>
<td>AS10 and Q10 Due</td>
</tr>
<tr>
<td>July 27</td>
<td></td>
<td>Nutrition Log Due</td>
</tr>
<tr>
<td>July 29</td>
<td>Ch. 11 - Weight Maintenance and Loss through Proper Nutrition and Exercise</td>
<td>AS11 and Q11 Due</td>
</tr>
<tr>
<td>July 31</td>
<td>Ch. 12 - Weight Gaining through Proper Nutrition and Exercise</td>
<td>AS 12 and Q12</td>
</tr>
<tr>
<td>August 4</td>
<td>Ch. 13 - Food Drugs and Related Supplements</td>
<td>AS13 and Q13 Due</td>
</tr>
<tr>
<td>August 6</td>
<td></td>
<td>Exam IV (Chapters 1-13, with emphasis on Ch. 10-13) Due</td>
</tr>
</tbody>
</table>
B. CLASS POLICIES

Attendance
The entire course including assignments, quizzes and exams are available on-line and are available according the course schedule. Students are required to complete the course work when assigned and complete the work by the due date. Excused absences are limited to participation in a TAMUCC sanctioned event or participation in a religious holy day as outlined in the University catalog; however, because there is typically is sufficient time to complete all assignments missed assignments, quizzes and exams will only be made up in extreme circumstances. 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 and punctual attendance and participation is critical to the successful completion of this course. If the student misses an assignment, quiz or exam due to emergencies which involve illness, family emergencies etc., it is the responsibility of the student to notify the instructor as soon as possible via e-mail.

Technology
This course is delivered via Blackboard. Important Note: All students must enter a User Name and Password to access their Blackboard account. Student User Names will be your net id (i.e. lsmith12). For steps in preparing a computer for Blackboard: https://iol.tamucc.edu/techreq.html

If a student experiences technical difficulties, please call the Island Online (IOL) support line at 361-825-2825. Additionally, please notify the instructor ASAP via phone or e-mail.

Academic Integrity/Plagiarism.
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, falsification, forgery, complicity 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:

1. 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, such as dismissal from the program or from the University.

Dropping a Class
I hope that you never find it necessary to drop this or any other class. However, events can sometimes occur that make dropping a course necessary or wise. Please consult with me before you decide to drop to be sure it is the best thing to do. Should dropping the course be the best course of action, you must initiate the process to drop the course by going to the Student Services Center and filling out a course drop form. Just stopping attendance and participation WILL NOT automatically result in your being dropped from the class. September 23, 2014 is the last day to drop a class with an automatic grade of
“W” this term.

Classroom/professional behavior
Texas A&M University–Corpus Christi, as an academic community, requires that each individual respect the needs of others to study and learn in a peaceful atmosphere. Under Article III of the Student Code of Conduct, classroom behavior that interferes with either (a) the instructor’s ability to conduct the class or (b) the ability of other students to profit from the instructional program may be considered a breach of the peace and is subject to disciplinary sanction outlined in article VII of the Student Code of Conduct. Students engaging in unacceptable behavior may be instructed to leave the classroom. This prohibition applies to all instructional forums, including classrooms, electronic classrooms, labs, discussion groups, field trips, etc.

Grade Appeals
As stated in University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures, 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 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 Dean’s office in the college in which the course is taught or the Office of the Provost.

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 Corpus Christi Hall 116. 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.

Statement of Academic Continuity
In the event of an unforeseen adverse event, such as a major hurricane and classes could not be held on the campus of Texas A&M University–Corpus Christi; this course would continue through the use of Blackboard and/or email. In addition, the syllabus and class activities may be modified to allow continuation of the course. Ideally, University facilities (i.e., emails, web sites, and Blackboard) will be operational within two days of the closing of the physical campus. However, students need to make certain that the course instructor has a primary and a secondary means of contacting each student.

X. REQUIRED TEXTBOOK


You can rent the eText on the CourseSmart website:
http://www.coursesmart.com/IR/3884793/0077475275?hdv=6.8
XI. BIBLIOGRAPHY


KINE 2375 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 2375 at Texas A&M University-Corpus Christi.

Signature________________________________________Date ______________________

Student ID # ______________________

Copy, paste, fill out, and submit this form to instructor via Blackboard Submission Box (“type submission” link)