

**George Mason University**  
**College of Education and Human Development**  
Kinesiology

KINE 420.CO2 - Sport and Exercise Nutrition  
3 Credits, Summer 2017  
Asynchronous, Online

**Faculty**

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**Prerequisites/Corequisites**

KINE 320, KINE 310

**University Catalog Course Description**

Explores the fundamental biochemical and physiological rationale for optimal nutrient intake for health, physical fitness, and athletic performance. Specific attention is focused upon the relationship nutrition has with exercise, physical fitness, health, and athletic performance.

**Course Delivery Method**

This course will be delivered online using an asynchronous format via the Blackboard learning management system (LMS) housed in the MyMason portal. You will log in to the Blackboard course site using your Mason email name (everything before @masonlive.gmu.edu) and email password. The course site will be available on **June 26, 2017**.

**Under no circumstances, may candidates/students participate in online class sessions (either by phone or Internet) while operating motor vehicles. Further, as expected in a face-to-face class meeting, such online participation requires undivided attention to course content and communication.**

*Technical Requirements*

To participate in this course, students will need to satisfy the following technical requirements:

- High-speed Internet access with a standard up-to-date browser, either Internet Explorer or Mozilla Firefox is required (note: Opera and Safari are not compatible with Blackboard).
- Students must maintain consistent and reliable access to their GMU email and Blackboard, as these are the official methods of communication for this course.
- Students may be asked to create logins and passwords on supplemental websites and/or to download trial software to their computer or tablet as part of course requirements.
- The following software plug-ins for PCs and Macs, respectively, are available for free download:
  - Adobe Acrobat Reader: <https://get.adobe.com/reader/>
  - Windows Media Player: <https://windows.microsoft.com/enus/windows/downloads/windows-media-player/>
  - Apple Quick Time Player: [www.apple.com/quicktime/download/](http://www.apple.com/quicktime/download/)

### *Expectations*

- Course Week: Because asynchronous courses do not have a "fixed" meeting day, our week will start on MONDAY, and finish on SUNDAY.
- Log-in Frequency: Students must actively check the course Blackboard site and their GMU email for communications from the instructor, class discussions, and/or access to course materials at least SIX times per week.
- Participation: Students are expected to actively engage in all course activities throughout the semester, which includes viewing all course materials, completing course activities and assignments, and participating in course discussions and group interactions.
- Technical Competence: Students are expected to demonstrate competence in the use of all course technology. Students who are struggling with technical components of the course are expected to seek assistance from the instructor and/or College or University technical services.
- Technical Issues: Students should anticipate some technical difficulties during the semester and should, therefore, budget their time accordingly. Late work will not be accepted based on individual technical issues.
- Workload: Please be aware that this course is **not** self-paced. Students are expected to meet *specific deadlines* and *due dates* listed in the **Class Schedule** section of this syllabus. It is the student's responsibility to keep track of the weekly course schedule of topics, readings, activities and assignments due.
- Instructor Support: Students may schedule a one-on-one meeting to discuss course requirements, content or other course-related issues. Those unable to come to a Mason campus can meet with the instructor via telephone or web conference. Students should email the instructor to schedule a one-on-one session, including their preferred meeting method and suggested dates/times.
- Netiquette: The course environment is a collaborative space. Experience shows that even an innocent remark typed in the online environment can be misconstrued. Students must always re-read their responses carefully before posting them, so as others do not consider them as personal offenses. *Be positive in your approach with others and diplomatic in selecting your words.* Remember that you are not competing with classmates, but sharing information and learning from others. All faculty are similarly expected to be respectful in all communications.
- Accommodations: Online learners who require effective accommodations to insure accessibility must be registered with George Mason University Disability Services.

### **Learner Outcomes or Objectives**

This course is designed to enable students to do the following:

1. Recognize the breadth of Nutritional Sciences.
2. Define common terms associated with Nutritional Sciences.
3. Explain basic nutrient, digestion, and absorption.
4. Describe energy systems, fuels, and nutrients supporting physical activity and how nutrition impacts human movement.
5. Differentiate and assess what to eat and nutrient timing to enhance human movement.
6. Explain the role of nutritional and sport ergogenic aids to enhance human movement.
7. Relate basic principles of bodyweight regulation and body composition.
8. Evaluate the influence of nutritional manipulations on immune function in physically active individuals.

## Professional Standards

Upon completion of this course, students will have met the following professional standards: This course meets the Commission on Accreditation of Allied Health Education Programs (CAAHEP) requirements and covers the following American College of Sports Medicine's Knowledge-Skills-Abilities (KSA's):

KSA	Description
	GENERAL POPULATION/CORE: NUTRITION AND WEIGHT MANAGEMENT
1.8.3	Knowledge of the relationship between body composition and health.
1.8.4	Knowledge of the effects of diet, exercise, and behavior modification as methods for modifying body composition.
1.8.5	Knowledge of the importance of an adequate daily energy intake for healthy weight management.
1.8.7	Knowledge of the importance of maintaining normal hydration before, during, and after exercise.
1.8.8	Knowledge of the USDA MyPlate and Dietary Guidelines for Americans.
1.8.9	Knowledge of the importance of calcium and iron in women's health.
1.8.10	Knowledge of the myths and consequences associated with inappropriate weight loss methods (e.g., fad diets, dietary supplements, over-exercising, starvation diets).
1.8.12	Knowledge of the number of kilocalories equivalent to losing one pound of body fat and the ability to prescribe appropriate amount of exercise to achieve weight loss goals.
1.8.13	Knowledge of the guidelines for caloric intake for an individual desiring to lose or gain weight.
1.8.14	Knowledge of common nutritional ergogenic aids, the purported mechanism of action, and any risk and/or benefits (e.g., carbohydrates, protein/amino acids, vitamins, minerals, herbal products, creatine, steroids, caffeine).
1.8.15	Knowledge of nutritional factors related to the female athlete triad syndrome (i.e., eating disorders, menstrual cycle abnormalities, and osteoporosis).
1.8.16	Knowledge of the NIH Consensus statement regarding health risks of obesity, Nutrition for Physical Fitness Position Paper of the American Dietetic Association, and the ACSM Position Stand on proper and improper weight loss programs.
1.8.17	Ability to describe the health implications of variation in body fat distribution patterns and the significance of the waist to hip ratio.
1.8.18	Knowledge of the nutrition and exercise effects on blood glucose levels in diabetes.

## Required Texts

Dunford, M. & Doyle, J.A. (2015) *Nutrition for Sport and Exercise (3<sup>rd</sup> edition)*. Cengage Learning. ISBN-13: 978-1-285-75249-5.

## Course Performance Evaluation

Students are expected to submit all assignments on time in the manner outlined by the instructor on Blackboard.

### • Assignments and Examinations

#### **Assignments (8 assignments @ 25 pts each; 200 points total)**

- There will be weekly assignments. Assignments may include completed worksheets, check points towards project, calculations, filling-in spread sheets or blog posts.

#### **Quizzes (10 quizzes @ 10 pts each; 100 points total)**

- Each week there will be two quizzes. They will be available from Monday until their respective date. One quiz will be due on Wednesday of each week, and one quiz will be due on Friday of each week. You will have two opportunities to take each quiz.

#### **Discussion Forum (200 points total)**

- **Article Review Post (100 pts)** Each student will sign up for one article, which they will be responsible for reading and *thoroughly* summarizing.
- **Forum Responses (100 pts)** There are 10 discussion forums. The number of posts will vary from week to week. Students must read and kindly respond with additional information, a question, or an interesting point about what was learned. Be sure to provide a response to e of the posts each week.

#### **Nutrition Supplement Project (150 points total):**

- Each student will select a different supplement and create a blog post to share with the class. Check point assignments will be due along the way to keep you on track.

#### **Exams (3 @ 100 points each; 300 points total)**

- Exams are non-cumulative and will be administered covering information based on the lectures, assigned readings, videos, and discussion posts. Exams may include multiple-choice, true-false, matching, and short answer. Exams will be timed and open/available for a 72-hour window (Friday-Sunday).

### **Course Performance Evaluation Weighting**

This course will be graded on a point system, with a total of 1000 possible points.

<b>Assignment</b>	<b>Percentage/Points</b>
Exam 1	10% / 100
Exam 2	10% / 100
Exam 3	10% / 100
Quizzes	10% / 100
Discussion Article Post	10%/ 100
Discussion Post Responses	10% / 100
Supplement Project	15% / 150
Assignments:	20% / 200
Introductory Blog	2.5% / 25
Syllabus Contract Quiz	2.5% / 25
Discussion Article Sign-Up	2.5% / 25
Supplement Project Topic Sign-Up	2.5% / 25
Calculations Assignment	2.5% / 25
Supplement Project Articles	2.5% / 25
Meal Plan Assignment	2.5% / 25
Vitamins & Minerals Worksheet	2.5% / 25
Professionalism	5% / 50

- **Grading**

A	= 94-100	B+	= 88-89	C+	= 78-79	D	= 60-69
A-	= 90-93	B	= 84-87	C	= 74-77	F	= 0-59
		B-	= 80-83	C-	= 70-73		

### **Professional Dispositions**

Students are expected to exhibit professional behaviors and dispositions at all times.

## KINE 420.CO2 Class Schedule Summer 2017

All coursework is due by 11:59pm on the date stated in the syllabus.

Week		Chapter(s)	Topic(s)	Assignment(s)
No.	Date			
1	6/26-7/2	1-3	Intro to Sports Nutrition, Defining/Measuring Energy, Energy Systems and Exercise	Quiz 1: 6/28 Discussion Topic Sign-Up: 6/28 Quiz 2: 6/30 Discussion Responses: 6/30 Introductory Blog: 7/1 Syllabus Contract Quiz: 7/2 Supplement Topic Sign-Up: 7/2 <b>Exam 1 (Ch 1-3): 6/30-7/2</b>
2	7/5*-7/9	4 & 5	*7/3-7/4 University Closed Carbohydrates and Proteins	Quiz 3: 7/5 Quiz 4: 7/7 Discussion Responses: 7/7 Calculations Assignment: 7/8 Supplement Project Articles: 7/8
3	7/10-7/16	6 & 7	Fats, Water & Electrolytes	Quiz 5: 7/12 Quiz 6: 7/14 Discussion Responses: 7/14 Meal Plan Assignment: 7/15 <b>Exam 2 (Ch 4-7): 7/14-7/16</b>
4	7/17-7/23	8-11	Vitamins & Minerals, Diet Planning: Food First, Supplements Second and Weight & Body Composition	Quiz 7: 7/19 Quiz 8: 7/21 Discussion Responses: 7/21 Vitamins & Minerals Worksheet: 7/22 Supplement Project: 7/23
5	7/24-7/29*	12 & 13	Disordered Eating & Exercise Patterns and Diet & Exercise for Lifelong Fitness & Health	Quiz 9: 7/26 Quiz 10: 7/28 Discussion Responses: 7/28 <b>Exam 3 (Ch 10-13): 7/28-7/29</b>

**\*Additionally, do not forget to make note of the discussion forum post due date that you signed up for!**

Note: Faculty reserves the right to alter the schedule as necessary, with notification to students.

### Assessment Rubric(s)

Rubrics for each assignment can be found attached to the assignment descriptions within Blackboard.

## Core Values Commitment

The College of Education and Human Development is committed to collaboration, ethical leadership, innovation, research-based practice, and social justice. Students are expected to adhere to these principles: <http://cehd.gmu.edu/values/>.

## GMU Policies and Resources for Students

### *Policies*

- Students must adhere to the guidelines of the University Honor Code (see <http://oai.gmu.edu/the-mason-honor-code/>).
- Students must follow the university policy for Responsible Use of Computing (see <http://universitypolicy.gmu.edu/policies/responsible-use-of-computing/>).
- Students are responsible for the content of university communications sent to their Mason email account and are required to activate their account and check it regularly. All communication from the university, college, school, and program will be sent to students **solely** through their Mason email account.
- Students with disabilities who seek accommodations in a course must be registered with George Mason University Disability Services. Approved accommodations will begin at the time the written letter from Disability Services is received by the instructor (see <http://ods.gmu.edu/>).

### *Campus Resources*

- Support for submission of assignments to Tk20 should be directed to [tk20help@gmu.edu](mailto:tk20help@gmu.edu) or <https://cehd.gmu.edu/aero/tk20>. Questions or concerns regarding use of Blackboard should be directed to <http://coursessupport.gmu.edu/>.
- The George Mason University Writing Center staff provides a variety of resources and services (e.g., tutoring, workshops, writing guides, handbooks) intended to support students as they work to construct and share knowledge through writing (see <http://writingcenter.gmu.edu/>).
- The George Mason University Counseling and Psychological Services (CAPS) staff consists of professional counseling and clinical psychologists, social workers, and counselors who offer a wide range of services (e.g., individual and group counseling, workshops and outreach programs) to enhance students' personal experience and academic performance (see <http://caps.gmu.edu/>).
- The George Mason University Office of Student Support staff helps students negotiate life situations by connecting them with appropriate campus and off-campus resources. Students in need of these services may contact the office by phone (703-993-5376). Concerned students, faculty and staff may also make a referral to express concern for the safety or well-being of a Mason student or the community by going to <http://studentsupport.gmu.edu/>, and the OSS staff will follow up with the student.

**For additional information on the College of Education and Human Development, please visit our website <https://cehd.gmu.edu/>.**