

George Mason University
College of Education and Human Development
Kinesiology

KINE 420 - Sport and Exercise Nutrition
3 Credits, Summer 2019
Asynchronous Online

Faculty

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Office hours: via Blackboard Collaborate Ultra by Appointment

Office Location: Remote

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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 will be available on **June 24, 2019**.

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:
 - Respondus Lockdown Browser and Monitor: [linked here](#)
 - Adobe Acrobat Reader: <https://get.adobe.com/reader/>
 - Windows Media Player: <https://windows.microsoft.com/enus/windows/downloads/windows-media-player/>

Expectations

- Course Week:

Because asynchronous courses do not have a "fixed" meeting day, our week will start on MONDAY, and finish on FRIDAY.

- 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 THREE 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. You 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 ensure 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

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):

Upon completion of this course, students will have met the following professional standards:

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

Nutrition for Sport and Exercise (4th ed.) by Marie Dunford & J. Andrew Doyle, Cengage Learning.

Course Performance Evaluation

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

• Assignments and Examinations

Module Assignments (6 assignments @ 30-100 pts each; 400 points total)

- Assignments may include calculations, filling in spread sheets, and creating informational materials. Assignments needs to be saved as LastName_FirstName_AssignmentName. No late assignments will be accepted.

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

- There will be 10 chapter quizzes. Please see the syllabus for quiz due dates. The quizzes are open-note, but timed. You will have 15 minutes to complete them. They will consist of 10 T/F and multiple-choice questions.

Discussion Forums (200 points total)

- **Article Review Post (100 pts)** Each student will sign up for one article that they will be responsible for reading and thoroughly summarizing for the class. The post author will then be responsible for replying to each students' comments/questions on their post.
- **Forum Responses (100 pts)** There are 10 articles, students must read at least one review for each article and kindly respond with additional information, a question, or an interesting point about what was learned.

Exams (2 @ 150 points each; 300 points total)


- Exams are non-cumulative and will cover information based on the lectures, assigned readings, videos, activities, and discussion posts. Exams may include multiple-choice, true-false, matching, and short answer. Exams will be timed and available for a 24-hour window. You are required to use Respondus Lockdown Browser and Monitor for exam-taking; your computer must have a web-cam and audio recording.

Course Performance Evaluation Weighting	REQUIREMENTS	PTS
Assignments		
Sign up for Article Review Topic		30
"About Me" Ice-Breaker and Responses		60
General Calculations		70
Vitamins and Minerals Worksheet		70
Sport Nutrition Dietary Recommendation Spreadsheet		100
Sample Meal Plan		70
Quizzes 10 x 10 pts each		100
Discussion Forum		
Initial Article Review Post and Responses		100
10 Article Responses (10 pts x 10 articles)		100
Exams		
Midterm (Chapters 1-6)		150
Final Exam (Chapters 7-13)		150
TOTAL		1000

• Grading

A = 940-1000	B+ = 880-890	C+ = 780-799	D = 600-699
A- = 900-939	B = 840-879	C = 740-779	F = 0-599
	B- = 800-839	C- = 700-739	

KINE 420 Class Schedule Summer 2019
All coursework is due by 11:59pm on the date stated in the syllabus.

WEEK	TOPIC	MON	TUES	WED	THUR	FRI
		6/24	6/25	6/26	6/27	6/28
1	Intro – Chapter 3	Introduction to Course Video Syllabus Contract Quiz	Ch. 1 <i>Intro to Sports Nutrition</i> Lecture Assignment #1: Sign Up for Article Review Assignment #2a: “About Me” Ice-Breaker Discussion	Ch 1 Quiz #1 Assignment #2b: Respond to two classmates’ “About Me”	Ch. 2 <i>Defining and Measuring Energy and</i> Ch. 3 <i>Energy Systems and Exercise</i> Lectures	Ch 2-3 Quiz #2 ISSN Article Reviews: Caffeine and Performance Creatine Supplementation and Exercise
		7/1	7/2	7/3	7/4	7/5
2	Chapters 4 & 5	Ch. 4 <i>Carbohydrates</i> Lecture	Ch 4 Quiz #3 Ch. 5 <i>Proteins</i> Lecture	Ch 5 Quiz #4 Assignment #3: General Calculations ISSN Article Review: Protein and Exercise	 UNIVERSITY CLOSED Have a SAFE and HEALTHY Holiday!	
		7/8	7/9	7/10	7/11	7/12
3	Chapters 6 & 7	Ch. 6 <i>Fats</i> Lecture	Ch 6 Quiz #5 CHAPTERS 1-6 EXAM REVIEW	MIDTERM EXAM CHAPTERS 1-6	Ch.7 <i>Water and Electrolytes</i> Lecture	Ch 7 Quiz #6 ISSN Article Review: Exercise and Fluid Replacement
		7/15	7/16	7/17	7/18	7/19
4	Chapters 8-11	Ch. 8 <i>Vitamins & Minerals</i> Lectures Ch. 9 <i>Minerals</i> Lectures	Ch 8-9 Quiz #7 Assignment #4: Vitamins and Minerals Worksheet	Ch. 10 <i>Diet Planning: Food First, Supplements Second</i> Lecture	Assignment #5: Sport Nutrition Dietary Recommendation Spreadsheet	Ch. 11 <i>Weight & Body Composition</i> Lecture and ISSN Article Review: Meal Frequency Nutrient Timing
		7/22	7/23	7/24	7/25	7/26
5	Chapters 12 & 13	Ch 10-11 Quiz #8 Ch.12 <i>Disordered Eating & Exercise Patterns</i>	Ch 12 Quiz #9 Ch. 13 <i>Diet & Exercise for Lifelong Fitness & Health</i> Lectures	Assignment #6: Sample Meal Plan & ISSN Article Reviews: Beta Alanine Energy Drinks HMB Diets and Body Comp	Ch 13 Quiz #10 CHAPTERS 7-13 EXAM REVIEW	FINAL EXAM CHAPTERS 7-13 & Extra Credit Opportunity: Course Evaluation

*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.

Professional Dispositions

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

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 or <https://cehd.gmu.edu/aero/tk20>. Questions or concerns regarding use of Blackboard should be directed to <http://coursessupport.gmu.edu/>.
- For information on student support resources on campus, see <https://ctfe.gmu.edu/teaching/student-support-resources-on-campus>

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