

George Mason University
College of Education and Human Development
Kinesiology

KINE 420-DL1– Sport and Exercise Nutrition
3 Credits, Fall 2019
Asynchronous Online

Faculty

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Prerequisites/Corequisites

KINE 310^C and KINE 320^C
^C requires minimum grade of C

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 Overview

The course focuses on the advanced principles of nutrition and its application in sport and exercise. It will be video lecture based to elicit thought provoking discussion to help emphasize key components of the content. Current topics and cases will be presented and discussed throughout the course to help students translate theory into practice.

The first part of the course will build on the components of a nutritious diet, nutrition standards, macro and micronutrients introduced in Principles of Human Nutrition, with emphasis on activity. The second part of the course will delve further into nutrition and its relationship with supplementation and timing for sport, as well as body composition, health, and disease.

The course is divided into three segments, with a different content expert delivering the video lectures for each. Though, you will have one professor who facilitates and leads your course section.

Course Delivery Method

This course will be delivered online (100%) using 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 **August 26, 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 standard up-to-date browsers. To get a list of Blackboard's supported browsers [click here](#).
To get a list of supported operation systems on different devices [click here](#).
- 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.
- Purchasing and access to [Cengage's MindTap software](#) for weekly assignments.
- The following software plug-ins for PCs and Macs, respectively, are available for free download:
 - [Respondus Lockdown Browser and Monitor](#)
 - [Adobe Acrobat Reader](#)
 - [Windows Media Player](#)
 - [Apple Quick Time Player](#)

Expectations

- Course Week:
Asynchronous courses do not have a "fixed" meeting day. However, the weekly modules and assignments for this course are set to 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. It is recommended that students plan to spend between 9-12 hours each week on the course material.

- **Instructor Support:**
Students may schedule a one-on-one meeting to discuss course requirements, content or other course-related issues. Please refer to office location and hours, provided in the syllabus in order to schedule a time to meet with the instructor, whether via telephone, web conference, or face to face. 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 individuals.

Required Text

[MindTap Digital Platform](#) for Nutrition for Sport and Exercise (4th ed. ©2019)

by Marie Dunford & J. Andrew Doyle, Cengage Learning

- Select Digital Platform, OR if you have other classes using Cengage, select Cengage Unlimited.
- This will give you access to the **mandatory MindTap** weekly activity program as well as an electronic copy of the textbook.

This also includes options to purchase/rent a hard textbook.

Professional Dispositions

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

<https://cehd.gmu.edu/students/polices-procedures/>

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.

Course Performance Evaluation

Students are expected to submit all assignments on time in the manner outlined by the instructor on Blackboard. No MindTap assignments will be accepted late. Assignments submitted within Blackboard will receive **half** credit for up to 24-hours after the due date and **no** credit thereafter.

• Assignments and Examinations

Weekly MindTap Assignments (12 weeks @ 30 pts each; 360 points total)

- Each week will include three assigned interactives to complete within the Cengage MindTap program. The due date is set as Thursdays at 11:59 pm. However, it is recommended that activities be completed throughout the week as you progress through the module.

Discussion Forum (140 points total)

- **Discussion post and replies (40 pts)** Each student will sign up for one ISSN Position Stand that they will be responsible for reading and providing a *thorough* summary that will be beneficial to the rest of the class. The post will be due on Wednesday and should be at least 450 words in length. By the Sunday night following the post, the author will respond to each student who replied to their post in order to finalize the discussion.
- **Forum Responses (10 @ 10 pts each; 100 points total)** There are 10 discussion forums; students must read at least one post each week and kindly add to the discussion with additional information, a question, or an interesting point about what was learned. The response is due by Friday and should be at least 150 words in length.

Sport Nutrition Prescription Project (140 points total):

- Throughout the course, you will learn about the energy demands and nutrient needs for a variety of sports and activity levels, to include nutrient timing and supplementation.
- **Part 1 (50 pts)** of the project will include creating an excel spreadsheet to perform a variety of caloric and macronutrient calculations, as well as a reference list regarding macronutrient timing pre-, during-, and post-exercise.
- **Part 2 (90 pts)** gives you the opportunity to build a scenario athlete and create a nutrition prescription utilizing the information from Part 1. This assignment also requires a one-day sample food log to demonstrate your prescription.

3 Exams (3 @ 120 points each; 360 points total)

- Exams are non-cumulative and will be administered covering information based on the lectures, assigned readings, interactive assignments, and videos. Exams may include multiple-choice and short answer. Exams will be timed and open/available for a 24-hour window. You will have 75 minutes to complete the exams. Once you complete a question, you will not be able to return to it. You will be required to install and utilize the [Respondus LockDown Browser](#) and Monitor during all exams. EXAMS WILL BE GRADED FOR HALF-CREDIT if an ID is not provided and/or a thorough environment scan is not completed. Further, no one is permitted in the area when you are taking the exam.

Course Performance Evaluation Weighting

REQUIREMENTS	PTS
Weekly Discussion Forum	
Initial Post and Replies	40
10 Weekly Responses (10 pts x 10 weeks)	100
Assignments	
Weekly MindTap Activities (30 pts x 12 weeks)	360
Sport Nutrition Prescription Project (Part 1 & 2)	140
Exams	
Exam 1 (Chapters 1-4)	120
Exam 2 (Chapters 5-9)	120
Exam 3 (Chapters 10-13)	120
TOTAL	1000

• Grading

A = 940-1000	B+ = 880-899.5	C+ = 780-799.5	D = 600-699.5
A- = 900-939.5	B = 840-879.5	C = 740-779.5	F = 0-599.5
	B- = 800-839.5	C- = 700-739.5	

Assessment Rubric(s)

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

KINE 420 Class Schedule Fall 2019

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

Date	Module	Ch.(s)	Topic(s)	Assignment(s)
Week 1 8/26-9/1	1	1	Intro to Sports Nutrition	MindTap Assignments: 8/29 Discussion Sign Up: 8/30
Week 2 9/2*-9/8	2	2	9/2 Labor Day No Classes Defining and Measuring Energy	MindTap Assignments: 9/5 Discussion Response 1: 9/6
Week 3 9/9-9/15	3	3	9/9 Last day to drop classes Energy Systems and Exercise	MindTap Assignments: 9/12 Discussion Response 2: 9/13
Week 4 9/16-9/22	4	4	Carbohydrates	MindTap Assignments: 9/19 Discussion Response 3: 9/20
Week 5 9/23-9/29		1-4	Review EXAM 1: 9/27	
Week 6 9/30-10/6	5	5	Proteins	MindTap Assignments: 10/3 Discussion Response 4: 10/4
Week 7 10/7-10/13	6	6	Fats	MindTap Assignments: 10/10 Discussion Response 5: 10/11
Week 8 10/14-10/20	7	7	Water & Electrolytes	MindTap Assignments: 10/17 Discussion Response 6: 10/18
Week 9 10/21-10/27	8	8&9	8: Vitamins 9: Minerals	MindTap Assignments: 10/24 Discussion Response 7: 10/25
Week 10 10/28-11/3		5-9	Review EXAM 2: 11/1	
Week 11 11/4-11/10	9	10	Diet Planning: Food First, Supplements Second	MindTap Assignments: 11/7 Discussion Response 8: 11/8 Sport Nutrition Prescription Project Part 1: 11/10
Week 12 11/11-11/17	10	11	Weight & Body Composition	MindTap Assignments: 11/14 Discussion Response 9: 11/15
Week 13 11/18-11/24	11	12	Disordered Eating & Exercise Patterns in Athletes	MindTap Assignments: 11/21 Discussion Response 10: 11/29
Week 14 11/25-12/1			Sport Nutrition Prescription Project Part 2: 12/1 11/27-11/29 Thanksgiving Recess No Classes	
Week 15 12/2-12/7*	12	13	Diet & Exercise for Lifelong Fitness & Health 12/7 Last Day of Class	MindTap Assignments: 12/5
Week 16 12/9-12/15		10-13	12/9-12/10 Reading Days Review EXAM 3: 12/13	

*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.

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 Mason 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/>).
- Students must follow the university policy stating that all sound emitting devices shall be silenced during class unless otherwise authorized by the instructor.

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/students/>.