

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

KINE 320.A01 - Principles of Human Nutrition
3 Credits, Summer 2021
Asynchronous Online

Faculty

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Prerequisites/Corequisites

None

University Catalog Course Description

Assesses dietary habits and patterns in relation to nutrient requirements across the age spectrum and for a variety of populations. Emphasizes weight control, diet in relation to physical activity, and current nutritional controversies.

Course Overview

The course focuses on the basic principles of human nutrition and its practical application to overall health. It is video lecture based in order to elicit thought provoking discussion and emphasize key components of the content. Current topics and cases are presented and discussed throughout the course to help students translate theory into practice.

This course is divided into three parts, with a different content expert delivering the video lectures for each part. However, you will have one professor who facilitates, leads and grades your course section.

The first part of the course focuses on the components of a nutritious diet, nutrition standards, macro and micronutrients. The second part of the course explores the relationship of nutrition to health, disease, fitness, ergogenic aids, and obesity as well as nutrition across the age spectrum.

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 into the Blackboard course site using your Mason email name (everything before @masonlive.gmu.edu) and email password.

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 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 modules and assignments for this course are set to start on MONDAY and finish on FRIDAY.
- Log-in Frequency:
Students should actively check the course Blackboard site and their Mason email for communications from the instructor, class discussions, and/or access to course materials on a daily basis.
- 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 course technology. Students who are struggling with technical components of the course should seek assistance from Mason Information Technology Services: <https://its.gmu.edu/service/its-support-center/>.
- 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 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. Please refer to information 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.
- **Netiquette:**
The course environment is a collaborative space. Experience shows that even an innocent remark typed in the online environment can be misconstrued. Students should 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 (<https://ds.gmu.edu/>) and provide notification of such to the course instructor.

Learner Outcomes or Objectives

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

1. Differentiate the roles of carbohydrates, protein, fats, vitamins, and minerals in diet across the lifespan.
2. Describe the digestive process as it relates to the utilization of nutrients for energy and metabolism.
3. Explain the various methods utilized to measure body composition.
4. Explain the importance of nutrition as it relates to exercise and physical activity for a healthy lifestyle.
5. Evaluate a variety of diets reported in the popular literature.
6. Plan a nutrition program for both weight loss and weight gain for clients.

Required Text

[MindTap Digital Platform](#) forSizer, F and Whitney, E. (2019). *Nutrition Concepts and Controversies, 15th Edition*. Wadsworth 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** 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
1.8.1	Knowledge of the role of carbohydrates, fats, and proteins as fuels for aerobic and anaerobic metabolism.
1.8.2	Knowledge of the following terms: obesity, overweight, percent fat, BMI, lean body mass, anorexia nervosa, bulimia, metabolic syndrome and body fat distribution.
1.8.6	Knowledge of the difference between fat-soluble and water-soluble vitamins.
1.8.8	Knowledge of the USDA Food Pyramid and Dietary Guidelines for Americans.
1.8.9	Knowledge of the importance of calcium and iron in women's health.
1.8.11	Knowledge of the number of kilocalories in one gram of carbohydrate, fat, protein, and alcohol.
1.8.12	Knowledge of the number of kilocalories equivalent to losing 1 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.

Course Performance Evaluation

Students are expected to submit 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

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

Each individual chapter, except for CH 7 & 8 and 13 & 14, will include three assigned interactives to complete within the Cengage MindTap program. For CH 7 & 8 and CH 13 & 14 there are three assigned interactives to complete per chapter grouping. Assigned activities are to be completed as you progress through the module, and are due by 11:59 pm on the assigned date in MindTap.

Discussion Forum (110 points total)

- **Discussion post and replies (50 pts)** Each student will sign up for one for/against discussion topic that they will be responsible for researching and providing *thorough information* on, that will be beneficial and applicable to the rest of the class. At least two credible sources (professional websites and/or peer reviewed articles) need to be utilized. Thorough information means relevant, current, and greater detail than is provided in the course textbook. The post is due by midnight on Wednesday and needs to be at least 450 words in length. By midnight on Sunday following the post, the author is required to reply to the other author's stance as well as respond to each student who replied to their post in order to finalize the discussion.

- **Forum Responses (6 @ 10 pts each; 60 points total)** There are 8 discussion forums; students must read at least one post (for/against) for each discussion topic and kindly add to the discussion with additional information, a question, or an interesting point about what was learned. The response should be at least 150 words.
- **Diet Analysis Project (150 points total):**
 - Throughout the course, you will be encouraged to evaluate your personal eating habits, your personal dietary needs, and create a plan toward making healthier substitutions in compliance with personal goals.
 - **Part 1 (50 pts)** includes recording and logging everything you eat/drink for 3 days into a diet analysis software program within Cengage MindTap.
 - **Part 2 (100 pts)** gives you the opportunity to evaluate your current dietary habits and make specific goals for improvement moving forward, based on what you learned from Part I and throughout the course.

Class Participation (20 points total)

- Points can be earned by watching video lectures associated with course modules.

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 for each part of the course. 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. Covering the camera or leaving the computer will result in a failing grade.

Course Performance Evaluation Weighting

REQUIREMENTS	PTS
Discussion Forum	
Initial Post and Replies	50
8 Topic Responses (10 pts x 8)	60
Class Participation	20
Assignments	
MindTap Activities (30 pts x 12 assignments)	360
Diet Analysis Project (Part 1 & 2)	150
Exams	
Exam 1 (Chapters 1-5)	120
Exam 2 (Chapters 6-10)	120
Exam 3 (Chapters 11-14)	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 can be found attached to the assignment descriptions within Blackboard.

KINE 320 Schedule Summer 2021
Coursework is due by 11:59pm on the date stated.

WEEK	TOPIC	MON	TUES	WED	THUR	FRI
		5/17	5/18	5/19	5/20	5/21
1	Intro CH 1 - 4	PART I Watch Course Intro Video Syllabus Contract Quiz MindTap and Discussion Forum Topic Sign up	CH 1: Food Choices and Human Health MindTap CH 1 (3 activities)	CH 2: Nutrition Tools – Standards and Guidelines CH 3: The Remarkable Body MindTap CH 2, 3 (6 activities)	CH 4: The Carbohydrates: Sugar, Starch, Glycogen and Fiber MindTap CH 4 (3 activities)	Discussion Forum 1: Added Sugars Discussion Forum 2: Superfoods
		5/24	5/25	5/26	5/27	5/28
2	CH 5 - 6	CH 5: The Lipids: Fats, Oils, Phospholipids, and Sterols. MindTap CH 5 (3 activities)	CHAPTERS 1-5 EXAM 1 REVIEW	EXAM 1 CHAPTERS 1-5	PART 2 CH 6: The Proteins and Amino Acids MindTap CH 6 (3 activities)	Discussion Forum 3:- Butter Discussion Forum 4: Meat vs Vegetarian
		5/31	6/1	6/2	6/3	6/4
3	CH 7 - 10	Memorial Day CH 7: The Vitamins CH 8: Water and Minerals MindTap CH 7, 8 (3 total activities)	Diet Analysis Project: Part One, 3-day food log	CH 9: Energy Balance and Healthy Body Weight MindTap CH 9 (3 activities)	CH 10: Performance Nutrition MindTap CH 10 (3 activities)	Discussion Forum 5: Dietary Supplements Discussion Forum 6: Ergogenic Aids
		6/7	6/8	6/9	6/10	6/11
4	CH 11 - 12	CHAPTERS 6-10 EXAM 2 REVIEW	EXAM 2 CHAPTERS 6-10	PART 3 CH 11: Diet and Health MindTap CH 11 (3 activities)	CH12: Food Safety and Food Technology MindTap CH 12 (3 activities)	Discussion Forum 7: Intermittent Fasting Discussion Forum 8:- Genetically Engineered Foods
		6/14	6/15	6/16	6/17	6/18
5	CH 13 - 14	Diet Analysis Project: Part Two, Improving Your Diet Document	CH 13, 14: Life Cycle Nutrition MindTap CH 13, 14 (3 activities)	CHAPTERS 11-14 EXAM 3 REVIEW	EXAM 3 CHAPTERS 11-14	Juneteenth Observed (University Closed)

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 <https://catalog.gmu.edu/policies/honor-code-system/>)
- Students must follow the university policy for Responsible Use of Computing (see <https://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://ds.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 <https://its.gmu.edu/knowledge-base/blackboard-instructional-technology-support-for-students/>.
- For information on student support resources on campus, see <https://ctfe.gmu.edu/teaching/student-support-resources-on-campus>

Notice of mandatory reporting of sexual assault, interpersonal violence, and stalking:

As a faculty member, I am designated as a “Responsible Employee,” and must report all disclosures of sexual assault, interpersonal violence, and stalking to Mason’s Title IX Coordinator per University Policy 1202. If you wish to speak with someone confidentially, please contact one of Mason’s confidential resources, such as Student Support and Advocacy Center (SSAC) at 703-380-1434 or Counseling and Psychological Services (CAPS) at 703-993-2380. You may also seek assistance from Mason’s Title IX Coordinator by calling 703-993-8730, or emailing titleix@gmu.edu.

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