



BIOL 1322.101CL
Nutrition and Diet Therapy
Spring 2024
Thursday 1:30-4:20 STEM342

Instructor Information: Sumathi Venkatesh

E-mail: svenkatesh@com.edu (preferred method of communication)

Student hours and location:

Office Hours: Thursday 1:00-1:30 pm and 4:20-4:50 pm (before and after class based on appointment)

Office: STEM 342 (classroom)

Required Textbook/Materials:

JS Blake *Nutrition & You* (5th edition) e-text with Modified Mastering Nutrition. Pearson. ISBN: 9780135217658 Note: The e-book and Modified Mastering Nutrition are purchased at the time of registration, and you will gain access to the online materials once you are in Brightspace/D2L when classes begin.

Required Online Resources

- COM Brightspace/D2L: <http://com.brightspace.com>. COM Brightspace/D2L will be used for online activities and more. All the class resources are available through Brightspace/D2L.
- Modified Mastering Nutrition with eText – Login will be completed through Brightspace/D2L. You will have several assignments on Mastering Biology for each topic covered.

Required Materials

- Scantrons (5) – 882E half sheet (bring with you to your exams!!)
- An inexpensive calculator (cannot use cell phones or other devices for calculations)

Course Description:

This course introduces general nutritional concepts in health and disease and includes practical applications of that knowledge. Special emphasis is given to nutrients and nutritional processes including functions, food sources, digestion, absorption, and metabolism. Nutritional information including food labels, advertising, and nationally established guidelines are addressed.

Student Learner Outcomes

1. Apply nutritional knowledge to analyze personal dietary intakes, to plan nutritious meals using nationally established criteria to meet recommended goals, and to evaluate food labels and the validity of nutritional claims.
2. Trace the pathways and processes that occur in the body to handle nutrients and alcohol through consumption, digestion, absorption, transport, metabolism, storage, and waste excretion.
3. Discuss functions, sources, deficiencies, and toxicities of macro-and micronutrients, including carbohydrates, lipids, proteins, water, vitamins, and minerals.
4. Apply the concept of energy balance and its influences at the physical, emotional, societal, and cellular level to evaluate advantages and disadvantages of various methods used to correct energy imbalances.
5. Utilize concepts of aerobic and anaerobic energy systems, and knowledge about macronutrients, vitamins, minerals, ergogenic aids, and supplements and relate them to fitness and health.
6. Describe health and disease issues related to nutrition throughout the life cycle, healthy dietary modifications, and the influence of specific nutrients on diseases.

Course requirements:

1. Mastering Nutrition – you will have numerous assignments within Mastering Nutrition.
2. Diet Analysis Project - The Diet Analysis Project is a multi-part project that provides experience with documenting diets, analyzing diets, modifying diets, and teamwork through case-studies and self-analysis. There are two parts in the case-study project and two parts in the self-study project of the Diet Analysis Project. More details are provided in Brightspace/D2L. **WARNING:** Each part of the project depends on successful completion of the previous part. As such, each part of the project is only available after successful completion of the preceding part. If you fail to successfully complete any part, you will not locate subsequent parts because they are unavailable. In effect, you have failed the subsequent parts of the assignment and forfeited those points.

For the case-study project you will:

1. Complete the Diet Analysis Project Case Study: Nadia and Laurie-Similar Needs and Different Intakes (10 points). The first assessment, the case-study questions, involves entering data into MyDietAnalysis and analyzing information for Nadia and Laurie to answer questions in Mastering Nutrition. Download the “combined report” of your diet analysis and submit a pdf copy in the Brightspace assignment section by the due date. Failure to submit a copy of your diet analysis report will result in minus 5 points.
2. Participate in a group activity and make recommendations for both Laurie and Nadia. (40 points). The second assessment in the case-study project is the Case-study Group Analysis and Recommendations. Using discussion, the group should arrive at consensus recommendations to the questions from the assignment.

For the self-analysis part of the project, you will:

1. Create a Three-day Average Report from a food log in MyDietAnalysis and answer intro questions. (20 points)
The first assessment for the self-study project involves generating a report of your diet for three days by entering the information from your journal into MyDietAnalysis through Mastering Nutrition. This assignment is found in Mastering Nutrition and named “MyDietAnalysis 3-Day Food Record and Personalized Dietary Analysis: An Introduction.” Each student will create a three-day diet journal that provides a detailed description of the foods and beverages (including water) consumed (e.g., brand, composition, etc.), the portion sizes of foods and beverages consumed (e.g., grams, ounces, cups, etc.), and time of the meal (e.g., breakfast, lunch, dinner, or snack). You will first create a personal profile in MyDietAnalysis and enter the foods eaten and beverages from your journal entries and answer the questions in the Mastering Nutrition assignment. Download the “combined report” of your diet analysis and submit a pdf copy in the Brightspace assignment section by the due date. Failure to submit a copy of your diet analysis report will result in minus 5 points.
2. Analyze the results from the Three-day Average Report. (80 points)
The information needed to generate your Three-day Average Report is obtained from your diet journal entries. For the second assessment in the self-study project, you will answer questions in Mastering Nutrition related to specific nutritional aspects of your diet from information generated in the report or from information in your textbook. The answers to the questions depend on the information from your Diet Analysis Self-study 3-day Average Report.

Determination of Course Grade/Detailed Grading Formula

1. Exams (400 points) - There will be four exams (100 points each) given during the semester. The tests are composed of calculation, matching, multiple choice, true/false, and short-answer style questions.
2. Final Exam (150 points) – At the end of the semester, a comprehensive Final exam will be given that covers all the material from the course. Questions will consist of calculations, matching, multiple choice, true/false, and short answer style questions.
3. Diet Analysis Project (150 points) – The Diet Analysis Project is a two-part project that provides experience with documenting diets, analyzing diets, modifying diets, and teamwork through case-studies and self-analysis.
4. Mastering Nutrition Chapter Activity (130 points) – each chapter has an associated Mastering activity worth 10 points.
5. Micronutrient Presentation (50 points) – Research and present on any one vitamin or mineral to the class
6. In Class Activities (120 points) – various assignments will be provided in class throughout the semester.

Grading Formula:

Exams	400 Points
Final Exam	150 Points
Diet Analysis Project	150 Points
Mastering Nutrition Chapter Activities	130 Points
Micronutrient Presentation	50 Points
In Class Activities	120 Points
Total Possible Points	1000 Points

Grading Scale

Final grades assigned for this course will be based on total points earned and are assigned as follows:

Letter Grade	Grade Average
A	89.5% - 100%
B	79.5% - 89.4%
C	69.5% - 79.4%
D	59.5% - 69.4%
F	0 – 59.4%

Late Work, Make-Up, and Extra-Credit Policy: Any deviations from the policies described below is at the sole discretion of the instructor.

Late Work Policy: The deadlines for selected assignments, chapter quizzes, and Diet Analysis Project are provided in the course schedule. After the deadline has passed, the assignment is closed, and the link may be removed. No additional time will be provided. Please use the course outline to help schedule your time for the course to assure that you meet the assignment and assessment deadlines. In class activities will be due on the day they are handed out in class. Students that are not in class will not be allowed to complete the in-class activity.

Make-Up Policy: Should you anticipate an absence on an exam day you must contact your instructor by email or in person PRIOR to the absence. Your situation will be evaluated by your instructor, and you may be allowed to take a make-up exam. Make-up exams will be allowed for a death in the family or a documented student illness. You must provide legitimate proof for your excuse in the case of missing an exam. The make-up exam MUST be taken within one week of the original exam date. Missed exams will not be allowed without documented evidence.

Extra-Credit Policy: During the semester there will be opportunities for extra credit. Students are responsible for submitting any extra credit work by the due date and no late work for extra credit will be accepted.

Attendance Policy: Students are expected to attend all class sessions as listed on the course calendar. Attendance will be taken at the beginning of each class. Leaving early from class (without approval from the instructor) may result in an absence for that day. If you do have to miss class, course materials will be posted on Brightspace/D2L, but it is your responsibility to obtain any additional notes from a classmate

Tardiness Policy: Students arriving late will be noted in the daily attendance.

Communicating with your instructor: ALL electronic communication with the instructor must be through your COM email. Due to FERPA restrictions, faculty cannot share any information about performance in the class through other electronic means. Responses can be expected within 24 hours during the week or 48 hours if it is the weekend.

Academic Dishonesty: Any incident of academic policy will be dealt with in accordance with college policy and the Student Handbook. Academic dishonesty – such as cheating on exams is an extremely serious offense and will result in a **grade of zero** on that exam and the student will be referred to the Office of Student Conduct for the appropriate discipline action.

Plagiarism: is using someone else’s words or ideas and claiming them as your own. Plagiarism is a very serious offense. Plagiarism includes paraphrasing someone else’s words without giving proper citation, copying directly from a website and pasting it into your paper, using someone else’s words without quotation marks. Any assignment containing any plagiarized material will receive a **grade of zero** and the student will be referred to the Office of Student Conduct for the appropriate discipline action. **Link(s) to resource(s) about avoiding plagiarism:** <https://owl.english.purdue.edu/owl/resource/589/01/>

Student Concerns: If you have any questions or concerns about any aspect of this course, please contact me using the contact information previously provided. If, after discussing your concern with me, you continue to have questions, please contact the Science and Engineering Department Chair, Prof. Abernathy at (409)933-8330 or sabernathy@com.edu.

Classroom Conduct Policy: College of the Mainland requires that students enrolled at COM be familiar with the Standards of Student Conduct, which can be found in the on-line Student Handbook. <http://www.com.edu/student-services/student-handbook.php>. Students should always act in a professional manner. Disruptive students will be held accountable according to college policy. Any violations of the Code of Conduct will result in a referral to the Office for student Conduct and may result in dismissal from this class.

Behavioral Expectations: Each student is entitled to an environment conducive to learning. Any situation that prevents students from learning or the instructor from teaching is a disruption. College of the Mainland requires that students enrolled at COM be familiar with the Standards of Student Conduct, which can be found in the on-line Student Handbook. <http://www.com.edu/student-services/student-handbook.php>. Students are expected to be familiar with and abide by the Student Code of Conduct. Any violations of the Code of Conduct will result in a referral to the Dean of Students and may result in dismissal from this class. Please be respectful of your fellow students and the instructor by adhering to the following:

1. Cell phones can be used sparingly during class, but if the use begins to be a disruption to yourself, other students, or the instructor, you will be asked to put the device away. Certain devices can be used to view content on the internet; however, this is at the discretion of the instructor. Laptops are **ONLY** permitted during class to take notes. Surfing the internet or checking email from your laptop is not permitted. ***During exams, no electronics will be allowed out. Items not allowed include, but are not limited to, cell phones, laptops, tablets, ear buds, headphones. If the student has any of these devices out during an exam, the exam will be taken from the student, and they will receive a zero for that exam.***
2. Students can be removed from the class if they are exhibiting disruptive behavior as deemed by the instructor. Repeated incidents will result in automatic withdrawal from the class. Students who display this conduct will be removed from the class and a Conduct Referral Form may be submitted to the Dean of Students.

Course policies are subject to change. It is the student’s responsibility to check Brightspace/D2L for corrections or updates to the syllabus. Any changes will be posted in Brightspace/D2L.

BIOL 1322.101CL SPRING 2024 Tentative Course Outline:

Week	Date	IN CLASS Topic/Chapter Reading	ONLINE Course Activities/Assignment(s)
1	1/18	Chapter 1 – What is Nutrition?	<ul style="list-style-type: none"> ○ Introduction to Mastering Nutrition (Due 1/24) ○ How Dynamic Study Modules (DSM) Work? (Due 1/24) ○ Extra Credit: About Me Discussion Board (Due 1/24) ○ Chapter 1 Activity (Due 1/24)
2	1/25	Chapter 2 - Tools for Healthy Eating	<ul style="list-style-type: none"> ○ Chapter 2 Activity (Due 1/31)
3	2/1	Chapter 3 – The Basics of Digestion	<ul style="list-style-type: none"> ○ Chapter 3 Activity (Due 2/7)
4	2/8	EXAM 1 (Ch. 1-3)	
5	2/15	Chapter 4 – Carbohydrates: Sugars, Starches, Fiber	<ul style="list-style-type: none"> ○ Chapter 4 Activity (Due 2/21) ○ Extra Credit: Share an article about nutrition (Due 2/21)
6	2/22	Chapter 5 – Fats, Oils, and Other Lipids	<ul style="list-style-type: none"> ○ Chapter 5 Activity (Due 2/28)
7	2/29	Chapter 6 – Proteins and Amino Acids	<ul style="list-style-type: none"> ○ Diet Analysis Project Case-Study Part 1 (Due 2/28) ○ Diet Analysis Project Case-Study Part 2 (Due 2/29) ○ Chapter 6 Activity (Due 3/6)
8	3/7	EXAM 2 (Ch. 4-6)	
	3/14	SPRING BREAK	
9	3/21	Chapter 7 – Vitamins	<ul style="list-style-type: none"> ○ Vitamins – Student Presentations (3/21) ○ Chapter 7 Activity (Due 3/27)
10	3/28	Chapter 8 – Minerals and Water Chapter 9 - Alcohol	<ul style="list-style-type: none"> ○ Minerals – Student Presentations (3/28) ○ Chapter 8 Activity (Due 4/3) ○ Chapter 9 Activity (Due 4/3)
11	4/4	EXAM 3 (Ch. 7-9)	
12	4/11	Chapter 10 – Weight Management and Energy Balance Chapter 11 - Nutrition and Fitness	<ul style="list-style-type: none"> ○ Diet Analysis Project Self-Study Part 1 (Due 4/10) ○ Chapter 10 Activity (Due 4/17) ○ Chapter 11 Activity (Due 4/17)
13	4/18	Chapter 14 – Life Cycle Nutrition: Pregnancy through Infancy Chapter 15 - Life Cycle Nutrition: Toddlers through the Later Years	<ul style="list-style-type: none"> ○ Diet Analysis Project Self-Study Part 2 (Due 4/17) ○ Chapter 14 Activity (Due 4/24) ○ Chapter 15 Activity (Due 4/24)
14	4/25	EXAM 4 (Ch 10-11, 14-15)	
15	5/2	Final Exam Review	
16	5/9	FINAL EXAM	

Institutional Policies and Guidelines

Grade Appeal Process: Concerns about the accuracy of grades should first be discussed with the instructor. A request for a change of grade is a formal request and must be made within six months of the grade assignment. Directions for filing an appeal can be found in the student handbook https://www.com.edu/student-services/docs/Student_Handbook_2023-2024_v2.pdf. *An appeal will not be considered because of general dissatisfaction with a grade, penalty, or outcome of a course. Disagreement with the instructor's professional judgment of the quality of the student's work and performance is also not an admissible basis for a grade appeal.*

Academic Success & Support Services: College of the Mainland is committed to providing students the necessary support and tools for success in their college careers. Support is offered through our Tutoring Services, Library, Counseling, and through Student Services. Please discuss any concerns with your faculty or an advisor.

ADA Statement: Any student with a documented disability needing academic accommodations is requested to contact Kimberly Lachney at 409-933-8919 or klachney@com.edu. The Office of Services for Students with Disabilities is located in the Student Success Center.

Textbook Purchasing Statement: A student attending College of the Mainland is not under any obligation to purchase a textbook from the college-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

Withdrawal Policy: Students may withdraw from this course for any reason prior to the last eligible day for a "W" grade. Before withdrawing students should speak with the instructor and consult an advisor. Students are permitted to withdraw only six times during their college career by state law. The last date to withdraw from the 1st 8-week session is February 28. The last date to withdraw from the 16-week session is April 22. The last date to withdraw for the 2nd 8-week session is May 1. The last date to withdraw for spring mini session is May 29.

FN Grading: The FN grade is issued in cases of *failure due to a lack of attendance*, as determined by the instructor. The FN grade may be issued for cases in which the student ceases or fails to attend class, submit assignments, or participate in required capacities, and for which the student has failed to withdraw. The issuing of the FN grade is at the discretion of the instructor. The last date of attendance should be documented for submission of an FN grade.

Early Alert Program: The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success and retention are very important to us. I have been asked to refer students to the program throughout the semester if they are having difficulty completing assignments or have poor attendance. If you are referred to the Early Alert Program you will be contacted by someone in the Student Success Center who will schedule a meeting with you to see what assistance they can offer in order for you to meet your academic goals.

Resources to Help with Stress:

If you are experiencing stress or anxiety about your daily living needs including food, housing or just feel you could benefit from free resources to help you through a difficult time, please click here <https://www.com.edu/community-resource-center/>. College of the Mainland has partnered with free community resources to help you stay on track with your schoolwork, by addressing life issues that get in the way of doing your best in school. All services are private and confidential. You may also contact the Dean of Students office at deanofstudents@com.edu or communityresources@com.edu.