



BIOL 1322-005|1
Nutrition and Diet Therapy
FALL 2025
Online: August 18th – October 9th

Instructor Information: Sumathi Venkatesh

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

Student hours and location:

Office Hours: Tuesday 2:00 pm- 3:00 pm. I will be available to meet with you through Microsoft Teams, but you must contact me ahead of time to schedule the meeting.

Required Textbook/Materials:

JS Blake *Nutrition & You* (6th edition) e-text with Modified Mastering Nutrition. Pearson. ISBN: 9780137652761 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.
- Respondus Lockdown Browser with Webcam for Respondus Monitor – Respondus can be accessed through Brightspace/D2L and students must have Respondus and a webcam for completing exams.
- 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

- An inexpensive calculator (cannot use cell phones or other devices for calculations)

Computer Requirements

It is your responsibility to have access to a computer with the following resources:

- Internet access through a wired Ethernet connection
- A contemporary web browser capable of viewing flash video (Chrome and Firefox usually work best)
- Java installed and updated
- COM e-mail account
- Respondus Lockdown Browser and Monitor
- Webcam – either built in or separate device
- Microsoft Office (COM offers free Office 365 access to students)
- A PDF reader

You are responsible for maintaining your own online access to the course. If your computer does not allow you to complete the assignments in the course, please use the computers available on campus. Be aware that the college computers are only available during the hours of operation for the computer labs and library. It is up to you to be aware of those times and get all assignments turned in on time.

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, including food safety, 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.
2. Participate in group discussion and make recommendations for both Laurie and Nadia. (50 points). The second assessment in the case-study project is the Case-study Group Analysis and Recommendations. Using discussions, you will create an initial post to present your answer to the various questions and then you will respond to other students' posts regarding their answers.

For the **self-analysis 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.
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 three-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 using Respondus.
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.
3. Diet Analysis Project (160 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 (140 points) – each chapter has an associated Mastering activity worth 10 points.

Grading Formula:

Exams	400 Points
Final Exam	150 Points
Diet Analysis Project	160 Points
Mastering Nutrition Chapter Activities	140 Points
Total Possible Points	850 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 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. Deviations from this policy are at the sole discretion of the professor.

Make-Up Policy: The course does not allow make-up work. Chapter activities do not have a make-up policy. Exams and the Diet Analysis Project are open for ample time to complete work. Deviations from this policy are at the sole discretion of the professor.

Extra-Credit Policy: During the semester there may 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. Deviations from this policy are at the sole discretion of the professor.

Attendance Policy: Students are expected to actively participate in their online course. To be counted as present in the online portion of this course, you must log in at least **2 times per week** to participate in the class, complete assignments, print notes, or complete quizzes. This policy follows the attendance policies prescribed in the 2018-2019 College Catalog (<http://coursecatalog.com.edu/>). Failing to log in to Brightspace/D2L, failing to log in to Mastering Nutrition, or failing to complete your work as scheduled demonstrates insufficient progress towards obtaining the course goals (objectives) and is detrimental to learning course material.

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.

Online 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.

<https://www.com.edu/student-services/student-handbook.html>. 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 Office for student Conduct and may result in dismissal from this class.

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 1322-005|1 – FALL 2025 Tentative Course Outline:

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Week 1 Chapters 1, 2	Aug 17	18 Review Syllabus	19 Introduction to Mastering Nutrition and How DSM's Work Due	20	21 Chapter 1, 2 Activities Due	22 Practice Exam Due	23
Week 2 Chapters 3, 4	24	25	26	27	28 Chapter 3, 4 Activities Due	29 <u>EXAM 1</u> Chapters 1-3	30
Week 3 Chapters 5, 6	31	Sep 1 Labor Day	2 Diet Analysis Case-Study Part 1 Due	3	4 Chapter 5, 6 Activities Due	5 <u>EXAM 2</u> Chapters 4-6	6
Week 4 Chapters 7, 8	7	8	9 Diet Analysis Case-Study Part 2 Group Discussion Posts Due	10	11 Chapter 7, 8 Activities Due	12	13
Week 5 Chapters 9, 10	14	15	16	17	18 Chapter 9, 10 Activities Due	19 <u>EXAM 3</u> Chapters 7-10	20
Week 6 Chapters 11, 13	21	22	23 Diet Analysis Self-Study Part 1 Due	24	25 Chapter 11,13 Activities Due	26	27
Week 7 Chapters 14, 15	28	29	30 Diet Analysis Self-Study Part 2 Due	Oct 1 W-DAY	2 Chapter 14, 15 Activities Due	3 <u>EXAM 4</u> Chapters 11, 13- 15	4
Week 8	5	6	7	8 <u>FINAL EXAM</u> Chapters 1-11, 13-15	9	10	11

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/student-handbook.html>. *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 accommodation is requested to contact:

Kimberly Lachney, Student Accessibility Services Coordinator

Phone: 409-933-8919

Email: AccessibilityServices@com.edu

Location: COM Doyle Family Administration Building, 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 October 1. The last date to withdraw from the 16-week session is November 14. The last date to withdraw for the 2nd 8-week session is November 25.

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.

Nondiscrimination Statement:

The College District prohibits discrimination, including harassment, against any individual on the basis of race, color, religion, national origin, age, veteran status, disability, sex, sexual orientation, gender (including gender identity and gender expression), or any other basis prohibited by law. Retaliation against anyone involved in the complaint process is a violation of College District policy.