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## 1013: Intro to Human Biology

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Sabrina Bradley, MS

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940-397-8930

Office Hours: MWF- 11am to 12pm; T & Th- 2pm to 3pm

Fall 2021

Monday, Wednesday

3 – 3:50pm

Bolin Office 220A

**COURSE DESCRIPTION:** A course for non-science majors that explores how the human body works. Basic biological principles, including scientific literacy, cell regulation and metabolism, nutrition, cancer, genetics, biotechnology, and body systems. Concurrent laboratory participation required.

**PREREQUISITES/COREQUISITES:** None

**OBJECTIVES:** As a result of this course, you will be able to:

- List the defining characteristics of biological life
- Summarize the roles of the major biomolecules within the body
- Explore the structures and functions of various cell organelles
- Describe the structure and function of cell membranes
- Discuss energy and metabolism within living things
- Understand the process of cell division
- Outline the processes of replication, transcription, and translation
- Understand the process of gene regulation and trait inheritance
- Explore the major body systems
- Identify societal uses of biotechnology

### REQUIRED TEXTS AND RESOURCES:

- Lumen Courseware

*Required digital materials for this course are part of the Courseware Access and Affordability Program at MSU Texas. Students are charged for required course materials on their student account with the Business Office. Any students who wish to opt-out of the Program and purchase the required course materials on their own must do so prior to 09/07/21. Opt-out instructions are sent to students' official my.msutexas.edu email address after the first day of class. Please contact the MSU Bookstore if you have any questions about the opt-out process.*

**ATTENDANCE AND PUNCTUALITY:** It is expected that students will attend classes regularly and on time. As such, official roll will be taken several times throughout the semester. If you miss class for university related functions, you must provide a signed letter or memo to me at least two days prior to the absence. Those who will not be in class due to a university activity need to turn in work upon returning. If you must miss class for emergencies, illness, or important events, let me know as soon as you can. Medical appointments are not considered part of this category, unless it is for an emergency or illness. **COVID STATEMENT:** Any students who experience symptoms of COVID-19 should immediately quarantine, notify their physician, and complete the [COVID-19 Reporting Form for Students](#). Alternatively, students may call the Office of Student Affairs at 940-397-4500. A campus contact tracer will follow up with all reporting students.

**COMMUNICATION:** You are expected to check your student e-mail regularly, as well as check D2L for grade postings and announcements regarding assignment and schedule changes. Because documents will be distributed electronically, you must inform me immediately if there is a problem retrieving them. Problems with due dates and exams must be discussed with me **before** the exam date or due date. The best way to reach me is through e-mail, which I check at least once a day. You can email me directly or via D2L. Leaving a voice mail is the second-best option. If you have a concern or question you need to discuss at length, you

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can come by during office hours. **Masks must be worn during the visit.** If you do not wish to wear a mask, I can set up a digital meeting.

**CELL PHONES, COMPUTERS, AND OTHER ELECTRONIC DEVICES:** Once class has begun, use of all electronic devices should be limited to class-related tasks. If special accommodations are necessary or special circumstances require you to take a phone call, please speak to me before class. If there is an emergency and you need to take a call, please exit the lecture hall quietly to conduct your business.

**FOOD AND DRINK:** Drinks are allowed in the lecture hall as long as they are in a screw-top lid or a water bottle. No food is allowed in the lecture halls.

**ACCOMMODATIONS:** Any student who, because of a disability, may require special arrangements in order to meet the course requirements should contact the instructor as soon as possible to make necessary arrangements. Students must present appropriate verification from the University's [Disability Support Services](#) (DSS) Office during the instructor's office hours. Please note that instructors are not allowed to provide classroom accommodation(s) to a student until appropriate verification from DSS has been provided.

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## COURSE REQUIREMENTS

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Deadlines for all assignments are listed in the course calendar at the end of this syllabus.

**Study Plans ..... 65 points**

There will be 13 study plans. You will go through the reading assignment posted on D2L for each module and complete the self-assessments.

**Quizzes ..... 260 points**

There will be 13 quizzes worth 20 pts each. These should be done after completing the Study Plan.

**In Class Assignments ..... 75 points**

There will be 2 in-class, group assignments worth 37- 38 pts each. If the assignment is not completed by the end of the last class period of the week, it must be completed outside of class and turned in by the specified due date.

**Tests..... 200 points**

There will be four tests throughout the semester. Each one will be worth 50 pts. They will be online tests and will be conducted in class. If you are unable to bring technology to take the exam, you must let me know a week in advance so an alternative can be made.

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**Total**

**600 points**

**GRADING:** The Lecture portion of this course accounts for 70% of your final grade while the Lab portion accounts for 30%

**ASSIGNMENT SUBMISSION:** All assignments will be submitted in D2L unless otherwise stated.

**LATE WORK:** Quizzes and assignments will be taken after the due date, but a 10% penalty will be applied each day it is late. **I will not accept late work after ONE week from the due date.**

**MAKEUP EXAMS:** If you are going to miss an exam, you must let me know at least two days in advance. I will set a time and day for the exam to be made up. If this time and day is missed, the exam will be scored a zero. If you miss the exam due to an emergency, contact me as soon as possible.

**PLAGIARISM/ACADEMIC OFFENSES:** *“As an MSU Student, I pledge not to lie, cheat, steal, or help anyone else do so.”* (University Student Handbook). Any student found cheating or copying from another student's work, or found to have plagiarized from other material (or using any materials for an assignment not completed by that student) will receive a grade of 0 for the assignment in question, and may face further disciplinary action according to university policy.

**OTHER:** [Tutoring and Academic Support Programs](#) (TASP) provides free drop-in tutoring for MSU students. Located on the first floor of Moffett Library, TASP's Learning center provides tutoring support in a number of core courses and subject areas. Please see their schedule for more information about times and offerings. *Remember that you don't need an appointment to utilize these services.*

COURSE CALENDAR			
<i>These dates are subject to change at the discretion of the instructor.</i>			
Wk	Date	Agenda/Topic	Due this Week
1	Aug. 23 – Aug. 29	<ul style="list-style-type: none"> <li>• Intro to Class</li> <li>• Module 1: Intro to Biology</li> </ul>	<input type="checkbox"/> Study Plan: due by 11:59pm Aug. 30 <input type="checkbox"/> Reading Quiz: due by 11:59pm Aug. 30
2	Aug. 30 – Sept. 5	<ul style="list-style-type: none"> <li>• Module 2: Chemistry of Life</li> </ul>	<input type="checkbox"/> Study Plan: due by 11:59pm Sept. 5 <input type="checkbox"/> Reading Quiz: due by 11:59pm Sept. 5
3	Sept. 6 – Sept. 12	<ul style="list-style-type: none"> <li>• <b>Sept. 6: No School</b></li> <li>• Module 3: Important Biological Molecules</li> </ul>	<input type="checkbox"/> Study Plan: due by 11:59pm Sept. 12 <input type="checkbox"/> Reading Quiz: due by 11:59pm Sept. 12 <input type="checkbox"/> Assignment: due by 11:59pm Sept. 19
4	Sept. 13 – Sept. 19	<ul style="list-style-type: none"> <li>• Review Session</li> <li>• <b>Exam 1 (Modules 1-3)</b></li> </ul>	<input type="checkbox"/> None
5	Sept. 20 – Sept. 26	<ul style="list-style-type: none"> <li>• Module 4: Cellular Structure</li> </ul>	<input type="checkbox"/> Study Plan: due by 11:59pm Sept. 26 <input type="checkbox"/> Reading Quiz: due by 11:59pm Sept. 26 <input type="checkbox"/> Assignment: due by 11:59pm Oct. 3

6	Sept. 27 – Oct. 3	<ul style="list-style-type: none"> <li>• Module 5: Cell Membranes</li> </ul>	<input type="checkbox"/> Study Plan: due by 11:59pm Oct. 3 <input type="checkbox"/> Reading Quiz: due by 11:59pm Oct. 3
7	Oct. 4 – Oct. 10	<ul style="list-style-type: none"> <li>• Module 6: Metabolic Pathways</li> </ul>	<input type="checkbox"/> Study Plan: due by 11:59pm Oct. 10 <input type="checkbox"/> Reading Quiz: due by 11:59pm Oct. 10
8	Oct. 11 – Oct. 17	<ul style="list-style-type: none"> <li>• Review Session</li> <li>• <b>Exam 2 (Modules 4-6)</b></li> </ul>	<input type="checkbox"/> None
9	Oct. 18 – Oct. 24	<ul style="list-style-type: none"> <li>• Module 7: Cell Division</li> </ul>	<input type="checkbox"/> Study Plan: due by 11:59pm Oct. 24 <input type="checkbox"/> Reading Quiz: due by 11:59pm Oct. 24
10	Oct. 25 – Oct. 31	<ul style="list-style-type: none"> <li>• Module 8: DNA Structure &amp; Replication</li> <li>• Module 9: Transcription &amp; Translation</li> </ul>	<input type="checkbox"/> Study Plans: due by 11:59pm Oct. 31 <input type="checkbox"/> Reading Quizzes: due by 11:59pm Oct. 31
11	Nov. 1 – Nov. 7	<ul style="list-style-type: none"> <li>• Module 10: Gene Expressions</li> <li>• Module 11: Trait Inheritance</li> </ul>	<input type="checkbox"/> Study Plans: due by 11:59pm Nov. 7 <input type="checkbox"/> Reading Quizzes: due by 11:59pm Nov. 7
12	Nov. 8 – Nov. 14	<ul style="list-style-type: none"> <li>• Review Session</li> <li>• <b>Exam 3 (Modules 7-9)</b></li> </ul>	<input type="checkbox"/> None
13	Nov. 15 – Nov. 21	<ul style="list-style-type: none"> <li>• Module 12: Overview of Body Systems</li> </ul>	<input type="checkbox"/> Study Plan: due by 10:00pm Nov. 23 <input type="checkbox"/> Reading Quiz: due by 10:00pm Nov. 23
14	Nov. 22 – Nov. 28	<ul style="list-style-type: none"> <li>• <u>Finish</u> Module 12: Overview of Body Systems</li> <li>• <b>Thanksgiving Break: Nov 24-28</b></li> </ul>	<input type="checkbox"/> Study Plan: due by 11:59pm Nov. 23 <input type="checkbox"/> Reading Quiz: due by 11:59pm Nov. 23
15	Nov. 29 – Dec. 3	<ul style="list-style-type: none"> <li>• Module 13: Modern Biology</li> </ul>	<input type="checkbox"/> Study Plan: due by 11:59pm Dec. 3 <input type="checkbox"/> Reading Quiz: due by 11:59pm Dec. 3
16	Dec. 4 – Dec. 10	<ul style="list-style-type: none"> <li>• Finals</li> </ul>	<input type="checkbox"/> Monday Dec. 6: 5:45pm to 7:45pm