Updated 07/18/2023



WACO, TEXAS

COURSE SYLLABUS AND INSTRUCTOR PLAN

ANATOMY & PHYSIOLOGY

(SPECIALIZED SINGLE SEMESTER COURSE, LECTURE + LAB)

BIOL 2404_0080, 0081

SHOLLY GUNTER

NOTE: This is a 16-week course. **NOTE:** This is an Online course.

AN EQUAL OPPORTUNITY INSTITUTION

FALL 2023

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Course Description:

Study of the structure and function of human anatomy, including the neuroendocrine, integumentary, musculoskeletal, digestive, urinary, reproductive, respiratory, and circulatory systems. Content may be either integrated or specialized.

Prerequisites and/or Corequisites:

None

Course Notes and Instructor Recommendations:

Requires group work using Brightspace online group tools, ability play podcasts and videos.

Tests are taken online and proctored. A webcam is required. Students do not need to come to campus.

Instructor Information:

Instructor Name: Sholly Gunter MCC E-mail: sgunter@mclennan.edu Office Phone Number: (254) 299-8170 Office Location: SB344 Office/Teacher Conference Hours: Online or in person by appointment Other Instruction Information:

<u>Required Text & Materials</u>:

Title: *Hole's Essentials of Human Anatomy and Physiology* +*CONNECT* Author: Shier Edition: *15th Edition* Publisher: McGraw Hill ISBN: 9781260237450

*The e-book and CONNECT are included in the cost of registration. If you are registered and have paid for the course, you already have the required text. The only exception is for students who "opt out" of this program. A hard copy of the book is available for a small additional fee.

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Methods of Teaching and Learning:

Discussion group, outline, exam, quiz, lab homework, video, podcasts

Course Objectives and/or Competencies:

Learning Outcomes:

General Objectives: Biology 2404 is an introductory course designed to introduce the student to the processes and systems of the human body.

Student learning outcomes:

1- To be able to read and analyze various printed materials. (CT, EQS)

2- To demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, and public policies. (CT, COM, TW)

3- To demonstrate critical thinking by using both qualitative and quantitative analysis to evaluate strategies and recognize alternative strategies. (CT, EQS)

AT THE END OF THIS COURSE, THE STUDENT SHOULD BE ABLE TO:

1- Describe the basic organization of the human body and how homeostasis is maintained via feedback systems. (CT, COM, EQS)

2- Know basic atomic structure and bonding. Know the structure and function of water and classes of organic compounds as they relate to the human body. (CT, TW, COM)

3- Know the basic structure and function of the cell membrane, cell transport processes, and cell organelles. (CT, TW, COM)

4- Know major tissue types and their functions. Be able to identify tissue types. (CT, COM)

5- Know the structures and functions of the systems of the human body. Be able to identify specific structures of these systems. (CT, TW, COM)

6- Know the basic concepts of heredity and fetal development. (CT, TW, COM)

Course Objectives:

- **Critical Thinking (CT)** --to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
 - Taught through daily discussion and assessed using lecture exams with a coursewide bank of CT questions and laboratory exercises that challenge students to answer more complicated real-life questions and predict outcomes using what

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they've learned in lecture.

- **Communications Skill (COM)--** to include effective written, oral, and visual communication
 - Taught through formal or informal presentation (including oral, written, and visual components), class discussion and assessment via common rubric for use of scientific language, clarity, and understanding. Also taught using scientific articles or current events within face-to-face or online discussion groups.
- **Empirical & Quantitative Skills (EQS)** -- to include applications of scientific and mathematical concepts.
 - Taught using specific laboratory exercises involving measurements and very basic data collection. (E.g., measuring arm length among each group, tallying the data, and then analyzing it by gender and height.).
- **Teamwork** to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal
 - Taught using specific laboratory or homework exercises involving measurements and very basic data collection. (e.g., measuring arm length among each group, tallying the data, and then analyzing it by gender and height.), and/or through class or online discussion.

Course Attendance/Participation Guidelines:

Attendance will be measured based on the completion of orientation/chapter quizzes. Completion of a chapter quiz is considered attendance. There are 20 quizzes. Missing over 5 quizzes means you have missed more than 25% of the course.

If a student is not in attendance in accordance with the policies/guidelines of the class as outlined in the course syllabus as of the course census date, faculty are required to drop students from their class roster prior to certifying the respective class roster. A student's financial aid will be re-evaluated accordingly and the student will only receive funding for those courses attended as of the course census date.

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Before the 60% point of the semester, a student who is absent for 25% or more of a face-to-face or blended course or who misses 25% or more of assigned work for an online course will be withdrawn from the course with a grade of W. A student may also request to be withdrawn with a grade of W before the 60% point of the semester. After the 60% point of the semester, the student may request to be withdrawn if the student is passing, or be assigned the final grade earned at the end of the semester after grades have been updated to reflect missing work.

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Course Outline or Schedule:

Week	Dates	Chapter Work	Discussion Board
Week 1	8/21 - 8/27	Orientation	DB1 - Introduction
Week 2	8/28 - 9/3	Chp 1: Introduction to Human Anatomy and Physiology Chp 2: Chemical Basis of Life	DB2 - Enneagram Personality Test
Week 3	9/4 - 9/10	Chp3: Cells Chp 4: Cellular Metabolism	DB3 - Medical Errors
Week 4	9/11 - 9/17	Chp 5: Tissues Exam 1	No Assignment
Week 5	9/18 - 9/24	Chp 6: Integumentary System Chp 7: Skeletal System	DB4 - Progress Report
Week 6	9/25 - 10/1	Chp 8: Muscular System Exam 2	No Assignment
Week 7	10/2 - 10/8	Chp 9: Nervous System Chp 10: The Senses	DB5 - Why We Sleep
Week 8	10/9 - 10/15	Chp 11: Endocrine System Exam 3	No Assignment
Week 9	10/16 - 10/22	Chp 12: Blood Chp 13: Cardiovascular System	DB6 - CRISPR
Week 10	10/23 - 10/29	Chp 14: Lymphatic System and Immunity Exam 4	No Assignment
Week 11	10/30 - 11/5	Chp 15: Digestive System and Nutrition Chp 16: Respiratory System	DB7 - Microbiome
Week 12	11/6 - 11/12	Chp 17: Urinary System Chp 18: Water, Electrolyte, and Acid-Base Balance	DB8 - Your Inner Fish
Week 13	11/13 - 11/19	*no chapter work - exam only* Exam 5	No Assignment
Week 14	11/20 - 11/26	Chp 19: Reproductive Systems **Thanksgiving Break **	DB9 - Final Thoughts

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Week 15	11/27 - 12/3	Chp 20: Pregnancy, Growth, Development, and Genetics Exam 6	• No Assignment
Week 16	12/4 - 12/5	FINAL EXAM	

Course Grading Information:

Grades will be based on student performance in the following areas:

A≥ 90%	B = 80-89.99%	C = 70-79.99%	D = 60-69.99%	F < 60%		
Total =		100%				
Group Discussions =		<u>20%</u>				
Chapter Homework	c =	25%				
Chapter Quizzes =		25%				
Exams =		30%				

Exams: There will be six exams and one final exam.

Exam 1 – Chapters 1-4 Exam 2 – Chapters 5-8 Exam 3 – Chapter 9-10 Exam 4 – Chapter 12-14 Exam 5 – Chapter 15-17 Exam 6 – Chapter 18-20 Final Exam – Comprehensive

Exams are due by Sunday at 11:59 pm of the week in which they are assigned (there may be exceptions for holidays). Exams consist of 50 questions drawn from a larger pool of questions. The exam questions are from the same pool of questions as the quizzes and homework. Therefore, many of the exam questions may be familiar. There are several multi-part and labeling questions in each exam. These will take time, and students should start each exam prepared. Students have one opportunity to complete an exam. The first and only grade will be

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recorded and used. Exams are timed. Students have 55 minutes to complete the exam, unless otherwise stated. Use of the textbook or any other resources when taking an exam is not allowed.

EXAMS ARE PROCTORED. They require a web cam and a proctoring extension installed on the student's computer. Students can visit this link to make sure they are able to install and use the proctoring extension. https://proctorio.com/support Students may use one $8 \frac{1}{2} \times 11$ page (front and back) of HANDWRITTEN notes on the exam. Please hold the notes in front of the camera and show both sides before the exam begins. Notes are not required. Students do not have to come into school to take exams.

Practice exams are available for studying. They are exact copies of the actual exam. If students take the practice exam, they will see some of the same questions that will be on the actual exam. The more times a student takes the practice exam, the more potential questions they will see. Practice exams do not go toward a student's grade but are counted as extra credit (see below).

Chapter Homework: *Homework is due by Sunday at 11:59 pm each week*. Homework assignments consist of 20 questions drawn from a larger pool and correspond to material covered in the book. Please use the textbook to help answer the homework questions. Homework assignments are not timed and *students have UNLIMITED chances to answer homework questions*. The highest grade of all attempts will be recorded and used.

Chapter Quizzes: *Quizzes are due by Sunday at 11:59 pm each week*. Quizzes consist of 20 questions drawn from a larger pool and correspond to material covered in the book. Please use the textbook to help answer the quiz questions. Quizzes are not timed and *students have ONE chance to take the quiz*. The first and only grade will be recorded and used.

Discussion Boards: Students will be assigned to groups of 10-15 students. Each group will be expected to complete designated discussion board assignments together. I will use a rubric to grade discussion board posts. Students are required to post an original (not copied from the internet), complete, and thoughtful answer to the questions given. They are also expected to respond to two other group member's posts. Extensions will not be given on discussion board assignments.

Extra Credit: The only extra credit available in the class is via the practice exams. Students are not required to do the practice exams. If students choose to do them, $1/10^{\text{th}}$ of their average practice exam grade will be added to their exam. Students can earn up to 10% extra credit on

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each unit exam. For example: 100% average on Practice Exam 1 = +10% on Exam 1, 78.5% average on Practice Exam 1 = +7.85% on Exam 1, 50% average on Practice Exam 2 = +5% on Exam 2, etc. Please contact the instructor with any questions.

Late Work and Make Up Work Policies:

Late work will result in a 0 grade.

Student Behavioral Expectations or Conduct Policy:

Students are expected to adhere to MCC's General Conduct Policy. https://www.mclennan.edu/employees/policy-manual/docs/E-VIII.pdf

Cheating will not be tolerated on any level. Cheating includes copying answers from another student's work, copying from the internet, having another person do work for a student, having AI write a student's discussion posts, and using outside resources for assignments unless is it specifically allowed. Suspected cheating on an assignment or exam will result in disciplinary action from the instructor, the college or both. Additionally, a student suspected of cheating will be given 0 points for the work, and may receive an F in the class.

Click Here for the MCC Attendance/Absences Policy

(https://www.mclennan.edu/highlander-guide/policies.html)

Click on the link above for the college policies on attendance and absences. Your instructor may have additional guidelines specific to this course.