McLennan
COMMUNITY
COLLEGE

WACO, TEXAS

COURSE SYLLABUS
AND
INSTRUCTOR PLAN

Anatomy & Physiology

(specialized single semester course, lecture + lab)

BIOL 2404_87 & BIOL 2404_88

Sholly Gunter

NOTE: This is a 16-week course.

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 to listen to podcasts, and watch videos.

Tests are taken online. 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: W 11:00 am – 2:30 pm or by appt, SB344
Other Instruction Information:

Required Text & Materials:

Title: *Hole's Essentials of Human Anatomy and Physiology +CONNECT*
Author: Shier
Edition: *13th Edition*
Publisher: McGraw Hill
ISBN: 9781260237450

MCC Bookstore Website: http://www.mclennan.edu/bookstore/

Student Support/Resources:

MCC provides a variety of services to support student success in the classroom and in your academic pursuits to include counseling, tutors, technology help desk, advising, financial aid, etc. A listing of these and the many other services available to our students is available at http://www.mclennan.edu/campus-resource-guide/

College personnel recognize that food, housing, and transportation are essential for student success. If you are having trouble securing these resources, we encourage you to contact a success coach by calling (254) 299-8226. Students can visit the Completion Center Monday-Friday from 8:00 a.m.-5:00 p.m. to meet with a success coach and receive additional resources and support to help reach academic and personal goals. Paulanne's Pantry (MCC's food pantry) is open 12:00 p.m.-1:00 p.m., Monday-Friday, without an appointment. The Completion Center and pantry are located on the Second Floor of the Student Services Center (SSC).

Minimum Technical Skills:

Students should have basic computer skills, knowledge of word processing software, and a basic understanding of how to use search engines and common web browsers.

Backup Plan for Technology:

In the event MCC's technology systems are down, you will be contacted/notified through your MCC student email address. Please note that all assignments and activities will be due on the date specified in the Instructor Plan, unless otherwise noted by the instructor.

* **Click Here for the Minimum System Requirements to Utilize MCC's D2L|Brightspace** (**www.mclennan.edu/center-for-teaching-and-learning/teaching-commons/requirements**)
Click on the link above for information on the minimum system requirements needed to reliably access your courses in MCC's D2L|Brightspace learning management system.

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 course-wide bank of CT questions and laboratory exercises that challenge students to answer more complicated real-life questions and predict outcomes using what 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 Outline or Schedule:

Week	Dates	Course Work	Discussion Board
Week1	1/13 -1/17	Orientation	GA1 - Introduction
Week 2	1/18 - 1/24	Chp 1: Introduction to Human Anatomy and Physiology Chp 2: Chemical Basis of Life	GA2 - Enneagram Personality Test
Week 3	1/25 - 1/31	Chp3: Cells Chp 4: Cellular Metabolism	GA3 - Medical Errors
Week 4	2/1 - 2/7	Chp 5: Tissues **Exam 1: Available Wed 2/5 - Fri 2/7**	No Assignment
Week 5	2/8 - 2/14	Chp 6: Integumentary System Chp 7: Skeletal System	GA4 - Progress Report
Week 6	2/15 - 2/21	Chp 8: Muscular System **Exam 2: Available Wed 2/19 - Fri 2/21**	No Assignment
Week 7	2/22 - 2/28	Chp 9: Nervous System Chp 10: The Senses	GA5 - Neuron Function Video
Week 8	2/29 - 3/6	Chp 11: Endocrine System **Exam 3: Available Wed 3/4 - Fri 3/6**	No Assignment
Week 9	3/7 - 3/13	**SPRING BREAK**	No Assignment
Week 10	3/14 - 3/20	Chp 12: Blood Chp 13: Cardiovascular System	GA6 - CRISPR
Week 11	3/21 - 3/27	Chp 14: Lymphatic System and Immunity **Exam 4: Available Wed 3/25 - Fri 3/27**	No Assignment
Week 12	3/28 - 4/3	Chp 15: Digestive System and Nutrition Chp 16: Respiratory System	GA7 - Microbiome
Week 13	4/4 - 4/10	Chp 17: Urinary System Chp 18: Water, Electrolyte, and Acid-Base Balance	GA8 - Your Inner Fish
Week 14	4/11 - 4/17	**Exam 5: Available Wed 4/15 - Fri 4/17**	No Assignment
Week 15	4/18 - 4/24	Chp 19: Reproductive Systems Chp 20: Pregnancy, Growth, Development, and Genetics	GA9 - Final Thoughts
Week 16	4/25 - 5/1	**Exam 6: Available Wed 4/29 - Fri 5/1**	No Assignment

Final Exam: Available Mon 5/4 - Tuesday 5/5

Course Grading Information:

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

Exams =	30%
Chapter Quizzes =	25%
Chapter Homework =	25%
Group Assignments =	20%
Total =	100%

A ≥ 90% B = 80-89.99% C = 70-79.99% D = 60-69.99% F < 60%

Exams: There will be six unit exams and one final exam. 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 to you. There are several multi-part and labeling questions in each exam. These will take time, and you should start each exam prepared. You have one opportunity to complete an exam. Your first and only grade will be recorded and used. Exams are timed. You have 55 minutes to complete the exam, unless otherwise stated.

Chapter Homework: Homework is due by Friday 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 your textbook to help you answer the homework questions. You may also use other resources, such as alternate textbooks or the internet. Homework assignments are not timed and you have unlimited chances to answer the homework questions. Your highest grade will be recorded and used.

Chapter Quizzes: Quizzes are due by Friday 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 your textbook to help you answer the quiz questions. You may also use other resources, such as alternate textbooks or the internet. Quizzes are not timed and you have one chance to take the quiz. Your first grade will be recorded and used. There are NO MAKE-UP QUIZZES.

Group Project: Students will be assigned to groups of 10-15 students. Each group will be complete discussion board assignments together using the group tools in the course. There are NO MAKE-UP ASSIGNMENTS.

Late Work, Attendance, and Make Up Work Policies:

There is NO MAKE-UP WORK.

Attendance will be measured based on your completion of orientation/chapter quizzes. Completion of a chapter quiz is considered attendance for that week. Failure to attend 25% of class meetings occurs if 5 or more orientation/chapter quizzes are missed. If you miss 5 or more class meetings before 60% of the class is completed, you will be dropped.

Student Behavioral Expectations or Conduct Policy:

Students should adhere to the General Conduct Policy in the Highlander Guide. "Students are expected to maintain classroom decorum that includes respect for other students and the instructor, prompt and regular attendance, and an attitude that seeks to take full advantage of the education opportunity."

Cheating will not be tolerated on any level. Cheating includes copying answers from another student's work, having another person do work for you 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 Academic Integrity Statement**
(**www.mclennan.edu/academic-integrity**)
The link above will provide you with information about academic integrity, dishonesty, and cheating.

*** Click Here for the MCC Attendance/Absences Policy**
(www.mclennan.edu/highlander-guide/policies)
Click on the link above for the college policies on attendance and absences. Your instructor may have guidelines specific to this course.

Accommodations/ADA Statement

Any student who is a qualified individual with a disability may request reasonable accommodations to assist with providing equal access to educational opportunities. Students should contact the Accommodations Coordinator as soon as possible to provide documentation and make necessary arrangements. Once that process is completed, appropriate verification will be provided to the student and instructor. Please note that instructors are not required to provide classroom accommodations to students until appropriate verification has been provided by the Accommodations Coordinator. Instructors should not provide accommodations unless approved by the Accommodations Coordinator. For additional information, please visit mclennan.edu/disability.

Students with questions or who require assistance with disabilities involving physical, classroom, or testing accommodations should contact:

disabilities@mclennan.edu
254-299-8122
Room 319, Student Services Center

* **Click Here for more information about Title IX**
(**www.mclennan.edu/titleix**)
We care about your safety, and value an environment where students and instructors can successfully teach and learn together. If you or someone you know experiences unwelcomed behavior, we are here to help. Individuals who would like to report an incident of sexual misconduct are encouraged to immediately contact the Title IX Coordinator at titleix@mclennan.edu or by calling Dr. Drew Canham (Vice President for Student Success) at 299-8645. Individuals also may contact the MCC Police Department at 299-8911 or the MCC Student Counseling Center at MCC by calling 299-8210. The MCC Student Counseling Center is a confidential resource for students.

McLennan's Title IX webpage (http://www.mclennan.edu/titleix/) contains more information about definitions, reporting, confidentiality, resources, and what to do if you or someone you know is a victim of sexual misconduct, gender-based violence or the crimes of rape, acquaintance rape, sexual assault, sexual harassment, stalking, dating violence or domestic violence.

* *You will need to access each link separately through your Web browser (for example: Internet Explorer, Mozilla, Chrome, or Safari) to print each link's information.*