

COURSE SYLLABUS
BSC 2085 - HUMAN ANATOMY & PHYSIOLOGY-I – ONLINE CLASS
SECTION – 82003

CREDIT HOURS: 3; Lecture hours: 3

COREQUISITE: BSC2085L or consent of Natural Sciences division chair

FALL-2023

INSTRUCTOR: Ashraf Hanafy **OFFICE:** Hours by appointment

PHONE: 850-872-3851

EMAIL: ahanafy@gulfcoast.edu

Division Chair: Ms. Fledia Ellis - NS-A115, Phone-850-872-3851

Division Administrative Assistant: Kathy Bleday - NS-A115, Phone-850-872-3851

TEXT: *Principles of Anatomy and Physiology* by G. Tortora and B. Derrickson, 16th edition, 2021. Wiley, Publisher. ISBN 97811196622686 (Prin Anat & Physio Loose-Leaf W/WileyPlus Canvas Set).

Optional materials – Medical dictionary

COURSE DESCRIPTION:

A study of chemistry, cells, tissue, the integument, the skeletal system, the muscular system, the cardiovascular system, and the respiratory system. Structure and function taught concurrently. This course is not intended for biology majors. Satisfactory completion of BSC1020 or high school biology during the last 5 years is strongly recommended.

BROAD COURSE GOALS:

Prepare the student for a career in a health-related profession by-

Teaching the essentials of human anatomy (structure) and physiology (function) through lectures, Power Point presentations, and discussion sessions.

Teaching the basic concepts of chemistry as they relate to the structure and function of the human body.

Strengthening health related occupational skills by comparing normal human anatomy and physiology with changes occurring during disease processes.

Keeping students informed about contemporary research accomplishments related to human anatomy and physiology.

Providing students precise Course Learning Outcomes (Course Objectives/Study Guides) in Canvas (the course management system used at GCSC).

APPROVED STUDENT LEARNING OUTCOMES:

Body Plan & Organization- Students who have completed this section of the course should understand the scope of studies in anatomy and physiology and be able to use and understand descriptive anatomical and directional terminology.

Homeostasis- Students who have completed this section of the course should be able to explain the basic concept of homeostasis and how homeostatic mechanisms apply to body systems.

Chemistry & Cell Biology- Students who have completed this section of the course should understand chemical concepts related to the structure and function of human cells and be able to identify cellular structures and explain their respective functions.

Histology- Students who have completed this section of the course should be able to describe the basic tissues of the body and their location and explain their functions.

Integumentary System- Students who have completed this section of the course should be able to identify and describe the major gross and microscopic anatomical components of the integumentary system and describe the functions of the system.

Skeletal System & Articulations- Students who have completed this section of the course should be able to identify and describe the major gross and microscopic anatomical components of the skeletal system and explain their functional roles in osteogenesis, repair, and body movement.

Muscular System- Students who have completed this section of the course should be able to identify and describe the major gross and microscopic anatomical components of the muscular system and explain their functional roles in body movement, maintenance of posture, and heat production.

Cardiovascular System- Students who have completed this section of the course should be able to identify and describe the major gross and microscopic anatomical components of the cardiovascular system and explain their functional roles in transport and hemodynamics.

Respiratory System- Students who have completed this section of the course should be able to identify and describe the major gross and microscopic anatomical components of the respiratory system and explain their functional roles in breathing/ventilation and in the processes of external and internal respiration.

INSTRUCTOR AVAILABILITY: Instructor will be available outside of class for 10 student office hours each week. Instructor's Office Hours will be posted outside the office and on Canvas. You should expect a response to an E-mail or phone call within 48 business hours.

CANVAS ACCOUNT (LEARNING MANAGEMENT SYSTEM): Mandatory in order to have access to lecture videos, PowerPoint presentations, announcements, assignments, exams, animations, emails, and any posted grades. It is the responsibility of the student to notify their instructor before the end of the first week of classes if they do not have access to the material in Canvas. **For help, contact the Help Desk at 850-913-3303, or extension 3303 from on campus.**

ACADEMIC INTEGRITY POLICY:

Honest participation in academic endeavors fosters an environment in which optimal learning can take place and is consistent with the college's mission. Academic misconduct, including cheating or plagiarism, is destructive to the spirit of an educational environment and therefore will not be tolerated. "Cheating" includes but is not limited to use of any unauthorized assistance in completing course work. "Plagiarism" includes, but is not limited to, the use by paraphrase or direct quotation of the published or unpublished work of another person without full and clear acknowledgment. Sanctions for incidences of academic misconduct, depending on the severity of the incidence and/or its repetition, may range from receiving an F grade (or zero) for the test, assignment, or activity, to failure of the course, to suspension or dismissal from the program or the college.

ACCESSIBILITY STATEMENT:

Gulf Coast State College supports an inclusive learning environment for all students. If there are aspects of the instruction or design of this course that hinder your full participation, reasonable accommodations can be arranged. Prior to receiving accommodations, you must register with Student Accessibility Resources. Appropriate academic accommodations will be determined based on the documented needs of the student. For information regarding the registration process, email sar@gulfcoast.edu or call 850-747-3243.

WEB COURSE PARTICIPATION POLICY:

As this is an online course, it is very important for students to utilize good time management to help ensure mastery of the course material. In order to help foster that aspect of the course, students will be expected to complete assignments (lecture quizzes, tests, and/or discussions) by their respective due dates. Failure to complete assignments in a timely manner will result in poor grades, and may result in your withdrawal from the course if there is excessive missed work before the college withdrawal deadline posted in the academic calendar.

It is the policy of GCSC that students who do not complete assigned work verifying their participation in online classes prior to the posted No-Show deadline will be withdrawn and assigned an NS grade in Lighthouse.

WITHDRAWAL PROCEDURE (OTHER THAN FOR EXCESSIVE ABSENCES): Students wishing to withdraw from a course must complete a withdrawal form and submit the form to the Office of Enrollment Services before the scheduled withdrawal date as published on the college calendar. Student withdrawals initiated prior to the scheduled withdrawal deadline will be recorded as a grade of "W".

A STUDENT CANNOT VOLUNTARILY WITHDRAW OR BE WITHDRAWN BY AN INSTRUCTOR AFTER THE POSTED WITHDRAWAL DEADLINE. THEREFORE, IF YOU ARE ENROLLED IN THIS COURSE AFTER THE DEADLINE, YOU WILL RECEIVE A FINAL COURSE LETTER GRADE (A, B, C, D, or F) BASED ON YOUR EXAM PERFORMANCES.

***PLEASE NOTE: A WITHDRAWAL AFTER THE DEADLINE MAY BE GRANTED ONLY FOR SPECIAL CIRCUMSTANCES BY CONTACTING THE DEAN OF STUDENT ENGAGEMENT (850-769-1551 Ex. 3211).**

AS PER THE COLLEGE CATALOG: Two withdrawals are permitted per credit course. After that, a grade will be assigned. Please be concerned about withdrawals. When admitting students into certain programs, universities may calculate withdrawals as grades. It is your responsibility to verify the effects of enrollment and/or withdrawal upon your financial assistance (financial aid, scholarships, grants, etc.).

ASSESSMENT: All assessments will be conducted via Canvas, with Unit Exams and the Final Exam requiring use of Respondus Lockdown Browser and Respondus Monitor proctoring. All quiz and exam questions will come from the PowerPoint presentations used in the lecture videos (also on Canvas) and other material which is covered or assigned in class. Questions may include multiple choice and matching type formats as well as short answer and discussion questions. Questions will be designed to evaluate understanding and application of the course material.

QUIZZES

Several chapter and/or topic quizzes will be completed throughout the semester to assess learning and reinforce pacing of the course. Your two (2) lowest quiz grades will be dropped automatically from the quiz average, which is worth 10% of your overall grade.

UNIT EXAMS

There will be six (6) unit exams covering material as follows:

- Exam 1 – Introduction, cellular structure, tissue structure and function, and the integumentary system
- Exam 2 – Introductory chemistry and biochemistry
- Exam 3 – Cellular physiology, genetics, and metabolism
- Exam 4 – Skeletal system
- Exam 5 – Muscular system
- Exam 6 – Cardiovascular and respiratory systems

Each unit exam will have 50 questions (worth 100 points total) and will be available for review after grading is completed. Your lowest unit exam grade will be dropped automatically. **The unit exam grades will represent 60% of your course grade.**

FINAL EXAM

The final exam will have 100 questions made up of portions from all six lecture units. **The final exam grade will represent 30% of your course grade.** There are no exemptions from the final exam. The final exam will not be available for review except by appointment with the instructor. Questions on the final will have changes from the original unit exam questions that will further evaluate understanding of the material.

You will have the option of completing a disease presentation project during the semester worth up to 10 points that will be added to your unit exam average. You will be given more information and instructions about this component during the course introduction video.

MAKE-UP EXAMS ARE GIVEN ONLY IN CASES OF DEMONSTRATED TECHNICAL DIFFICULTY OR IF YOU HAVE A LEGITIMATE DOCUMENTED EXCUSE ACCEPTED BY THE INSTRUCTOR. IT IS VITAL THAT YOU CONTACT THE INSTRUCTOR AS SOON AS POSSIBLE IF YOU WISH TO RECEIVE A MAKE-UP TEST. The grading scale is: A = 89.5 – 100, B = 79.5 - 89, C = 69.5 - 79, D = 59.5 - 69, F = below 59.5.