

## **COURSE SYLLABUS**

**BSC 2085 - HUMAN ANATOMY & PHYSIOLOGY–I SECTION 10268 – MW 1100-1215**

**CREDIT HOURS:** 3; Lecture hours: 3

**COREQUISITE:** BSC2085L or consent of Natural Sciences division chair

**SPRING-2024**

**INSTRUCTOR:** Greg Robinson

**OFFICE:** NS-A 117

**PHONE:** 850-769-1551-ext.- 2853

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**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 1 business day Mon.-Thurs.

**CANVAS ACCOUNT (LEARNING MANAGEMENT SYSTEM):** Mandatory in order to have access to lecture PowerPoint presentations, announcements, assignments, 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](mailto:sar@gulfcoast.edu) or call 850-747- 3243.

**LECTURE RECORDING POLICY:**

In accordance with federal and state privacy laws, students may record class lectures for their own personal educational use, in connection with a complaint to the college, or as evidence in internal or external legal proceedings. Students may not publish or upload the recordings or any components thereof without the knowledge and written permission of the faculty member. Failure to obtain permission to publish could lead to the students' having to pay damages, attorney fees, and court costs. For more information about what can be recorded, please see the guidelines in the current Student Handbook on the Gulf Coast State College website.

**ATTENDANCE POLICY:**

Regular class attendance and participation are significant factors that help to promote success in college. Students are expected to attend all class meetings of all courses for which they are registered. In this class, attendance and participation at each session will be essential for succeeding in the course. You will be expected to sign a class role in each class period to record your participation.

**THERE WILL BE AN ATTENDANCE POLICY IN THIS COURSE AND ENFORCED PRIOR TO MARCH 8, 2023. PRIOR TO MARCH 8, 2023, YOU WILL BE ALLOWED 4 ABSENCES (EXCUSED OR UNEXCUSED). YOU WILL BE WITHDRAWN AFTER YOUR 5TH ABSENCE IN THIS COURSE IF IT OCCURS BEFORE MARCH 8, 2023 (EXCUSED OR UNEXCUSED) AND YOU WILL RECEIVE A GRADE OF "W".** As a college student, you must accept the responsibility to acquire the information you will need to become successful in your chosen career.

**PLEASE NOTE: IT IS THE POLICY OF GCSC THAT YOU WILL BE WITHDRAWN AND BE CLASSIFIED AS A NO-SHOW (NS) IF YOU ARE ABSENT FROM THE FIRST 4 CLASSES.**

**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 (MARCH 8, 2023). Student withdrawals initiated prior to the scheduled withdrawal deadline (MARCH 8, 2023) will be recorded as a grade of "W".

**A STUDENT CANNOT VOLUNTARILY WITHDRAW OR BE WITHDRAWN BY AN INSTRUCTOR AFTER MARCH 8, 2023\*. THEREFORE, IF YOU ARE ENROLLED IN THIS COURSE AFTER MARCH 8, 2023 YOU WILL RECEIVE A FINAL COURSE LETTER GRADE (A, B, C, D, or F) BASED ON YOUR EXAM PERFORMANCES.**

**\*PLEASE NOTE: A WITHDRAWAL AFTER MARCH 8, 2023 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 exam questions will come from the PowerPoint presentations used in class (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.

There will be five (5) unit exams covering material indicated in the Class Schedule (See Class Schedule for exam dates). Each unit exam will have 50 questions (worth 100 points total), 5 bonus questions (worth 5 points total), and will be returned for review. The unit exam grades will represent 70% of your course grade. The final exam will have 100 questions made up of 50 questions from the last "lecture unit" (cardiovascular/ respiratory systems) plus 50 comprehensive questions from the other unit exams and will count 100 points. The final exam grade will represent 30% of your course grade. There are no exemptions from the final exam. The final examination schedule can be found in the GCSC website (Academic Calendar) and in the Class Schedule included in this syllabus. The final exam is not returned but is kept in the instructor's office if you want to review it. Questions on the final will have changes from the original unit exam questions that will further evaluate understanding of the material.

There will be an opportunity to earn a maximum of 10 additional "bonus points" that will be added to your unit exam average at the end of the semester. You will be given more information and instructions about this component of the course on the first day of class.

**GRADING POLICY: YOUR LOWEST UNIT EXAM GRADE WILL BE DROPPED.** The 5 unit exams count as 70% of your semester grade, and the final exam counts as 30% of your semester grade.

**MAKE-UP EXAMS ARE GIVEN ONLY IF YOU MISS A SECOND EXAM AND YOU HAVE A LEGITIMATE DOCUMENTED EXCUSE ACCEPTED BY THE INSTRUCTOR. THEREFORE, IF YOU MISS AN EXAM FOR ANY REASON, YOU WILL RECEIVE A GRADE OF "0" ON THAT EXAM. HOWEVER, WHEN CALCULATING YOUR COURSE GRADE AT THE END OF THE SEMESTER, YOUR NUMERICAL GRADE ON THE FINAL EXAM WILL REPLACE THE "0" GRADE OF A MISSED EXAM.** The grading scale is: A= 89.5 – 100, B = 79.5 - 89, C = 69.5 - 79, D = 59.5 - 69, F = below 59.5.

**MAKE-UP WORK (OTHER THAN EXAMS):** It is your responsibility to monitor the class schedule (found in this syllabus) to identify any material you may miss due to an absence. Contacting classmates may also be helpful. The instructor will e-mail all students if there is some special assignment or change in the schedule. Students expecting to be absent due to college business should notify the instructor before they miss a class to discuss any assignments. As noted above, make-up exams will be given only if two or more of the period-long unit exams are missed due to a documented excused absence.

## **CLASSROOM CONDUCT POLICY OF THE NATURAL SCIENCES DIVISION OF GULF COAST STATE COLLEGE:**

In order to promote a learning environment in which you as a student may receive the greatest consideration, we will do all we can to prevent unnecessary interruptions and class disruptions. To this end, it is the stated policy of the Division of Natural Sciences that disruptions, absolutely and unequivocally, will not be tolerated in the classrooms administered by this division.

### **1. Everyone is required to be in class on time.**

Anyone entering the classroom after the instructor has begun class is late and is a disruption to the class. The instructor must implement an appropriate policy to discourage late arrivals.\*

**\*ADDENDUM FOR THIS CLASS: THE THIRD TIME YOU ARE LATE 5 POINTS MAY BE DEDUCTED FROM YOUR COURSE GRADE AND 5 POINTS MAY BE DEDUCTED FOR EACH SUBSEQUENT LATE ARRIVAL.**

### **2. The student must have prior consent of the instructor before leaving the class early.**

If you must leave class early, notify the instructor before the beginning of the class. We do not conduct “open” classrooms where individuals may arrive and exit at their discretion. This activity is disruptive to those trying to learn and will not be allowed. If you leave the classroom for any reason during the scheduled class time, you will not be allowed back in the classroom until the class is over. If this occurs more than 2 times, you may not return to class without first obtaining permission from the Chair of the Natural Sciences Division.

### **3. The instructor is not to allow talking or other distractions to occur at inappropriate times.**

Talking or other disruptive behavior including the use of electronic devices can be a distraction to other students and has no place in a college environment. Cell phones, mp3 devices, etc. must be turned off and put away unless they are being used for class activities (See #7 below)\*. Students who engage in such behavior will be asked to stop. If the behavior continues, the student will be asked to leave and must confer with the Chair of the Natural Sciences Division concerning the nature of the behavior before being allowed back into the classroom.

**(\*ADDENDUM FOR THIS CLASS:** Devices for recording lectures are allowed as long as they are not distractions.)

### **4. Guests and non-enrolled students, including children, are not allowed in classrooms/labs.**

### **5. The instructor has the authority to handle any infractions of discipline.**

The student has the right to appeal to the Chair of the Natural Sciences Division.

### **6. Food and beverages in open containers are absolutely forbidden in my classroom.**

Water in a bottle or other closed container is acceptable.

### **7. Cell phone use during class is prohibited by the following policy:**

All cell phones must be turned off (not on vibrate) and put away (in a pocket, a purse, or a backpack) by the time class starts and may not be visible until the professor has left the room at the end of class, except for use during authorized class activities. Sending or receiving cell phone calls, pages or text messages is not allowed except for law enforcement officers, firefighters or other first responders. Other than these, any student who leaves the classroom to use a cell phone will not be permitted back in class. Use of a cell phone in class can be construed as a Disruptive Act as defined in the Student Code of Conduct in the GCSC Student handbook and as a violation of the Academic Integrity Policy. Repeated cell phone use during class will result in dismissal (withdrawal) from the class. The student cannot be readmitted to the class without seeing the Chair of the Natural Sciences Division and obtaining clearance to attend class.

### **8. Students may bring and use laptop computers/tablets in class under the following guidelines:**

Please sit on back row of desks/tables

Computers/tablets must be used only for recording or acquiring information for the current class

**BSC-2085 HUMAN ANATOMY & PHYSIOLOGY – I**  
**SECTION 10268 - MW 1100-1215      SPRING-2023**

LECT.	DAY	DATE	TOPIC	TEXT
1	Mon.	1-09-23	Orientation; Introduction to Anatomy and Physiology	Ch. 1
2	Wed.	1-11-23	Cell organelles	Ch. 3
	Mon.	1-16-23	NO CLASSES-MLK HOLIDAY	Ch. 4
3	Wed.	1-18-23	Basic tissues	Ch. 4
4	Mon.	1-23-23	Basic tissues	Ch. 4
5	Wed.	1-25-23	Skin	Ch. 5
	Mon.	1-30-23	UNIT EXAM - I (Lectures 1-5)	
6	Wed.	2-01-23	Basic chemistry	Ch. 2
7	Mon.	2-06-23	Inorganic molecules	Ch. 2
8	Wed.	2-08-23	Organic molecules	Ch. 2
9	Mon.	2-13-23	Organic molecules	Ch. 2
10	Wed.	2-15-23	Cell membrane	Ch. 3
	Mon.	2-20-23	UNIT EXAM - II (Lectures 6-9)	
11	Wed.	2-22-23	Cell cycle; DNA replication; Chromosomes	Ch. 3
12	Mon.	2-27-23	Protein synthesis	Ch. 3
13	Wed.	3-01-23	Krebs cycle; Electron transport chain	Ch. 25
	Mon.	3-06-23	UNIT EXAM - III (Lectures 10-13)	
14	Wed.	3-08-23	Skeletal system – Bone tissue; Bone development	Ch. 6
	Mon.	3-13-23	SPRING BREAK – NO CLASSES	
	Wed.	3-15-23	SPRING BREAK – NO CLASSES	
15	Mon.	3-20-23	Skeletal system – Joints; Axial skeleton	Ch. 9, 7
16	Wed.	3-22-23	Skeletal system - Appendicular skeleton	Ch. 7, 8
	Mon.	3-27-23	UNIT EXAM - IV (Lectures 14-16)	
17	Wed.	3-29-23	Muscular system – Muscle tissue	Ch. 10
18	Mon.	4-03-23	Muscle contraction; Specific muscles	Ch. 10, 11
19	Wed.	4-05-23	Specific muscles	Ch. 11
	Mon.	4-10-23	UNIT EXAM - V (Lectures 17-19)	
20	Wed.	4-12-23	Blood; Hematopoiesis	Ch. 19
21	Mon.	4-17-23	Cardiovascular system - Heart	Ch. 20
22	Wed.	4-19-23	Heart; Cardiovascular system – Vessels	Ch. 20, 21
23	Mon.	4-24-23	Vessels; Respiratory system	Ch. 21, 23
24	Wed.	4-26-23	Respiratory system	Ch. 23
	Wed.	5-3-23	FINAL EXAM – (Lectures 20-24 + Comprehensive)	