



**[REDACTED]**

## BSC2085L Human Anatomy & Physiology I

Instructor: **[REDACTED]**

Term: Summer 2020

Class Number: **[REDACTED]**

BB Collaborate Meetings: Tuesday and Thursdays 2:00pm - 4:15pm

Email: **[REDACTED]**

BB Collaborate Office Hours: Thursdays 1:00pm - 2:00pm

### **COURSE DESCRIPTION**

In this laboratory course, students will learn to apply the concepts covered in BSC2085 as it pertains to structure and function of the human body from an experimental approach. ( 2 hr. lab )

Corequisite: BSC2085

### **TEXTBOOK AND MATERIAL**

Human Anatomy & Physiology Laboratory Manual, The Unity of Form and Function (9th Edition) by Saladin

In order for you to have the most effective learning environment, it is important that you are using the right equipment. For this course, you will need:

- A reliable Internet connection.
- Regular access to a laptop or desktop computer with an updated operating system and web browser.
- A webcam and microphone for proctored exams, class activities, and virtual sessions.

### **COURSE COMPETENCIES**

**Competency 1:** The student will apply the basic terminology of human anatomy by:

1. Demonstrating the anatomical position.
2. Listing the directional terminology for the human body.
3. Identifying the human anatomical regions.
4. Differentiating body cavities and organs.

**Competency 2:** The student will demonstrate knowledge of the microscope, and the cellular and tissue levels of organization by:

1. Identifying the parts of the compound microscope.
2. Describing the functions of the parts of the compound microscope.
3. Demonstrating the correct use and care of the compound microscope to examine specimens.
4. Identifying and describing the different parts of human cells and their functions.
5. Differentiating the basic human tissue types in prepared slides.
6. Describing the location and function of the basic human tissue types.

**Competency 3:** The student will recognize the various components of the integumentary system by:

1. Identifying selected skin tissues and structures from prepared slides.
2. Explaining the structures and functions of epidermal and dermal layers of the skin.
3. Identifying the accessory structures of the skin and their functions.

**Competency 4:** The student will identify the microscopic and macroscopic structures of bones and the structural and functional classification of selected articulations by:

1. Identifying the locations and functions of various types of cartilage in the adult skeleton.
2. Distinguishing between compact bone and spongy bone.
3. Identifying the components of the osteon or Haversian system.
4. Locating the major anatomical structures of a long bone.
5. Identifying the bones of the axial and appendicular skeleton.
6. Identifying the bones and sutures of the adult skull and locate fontanelles on a fetal skull.
7. Identifying selected bone markings.
8. Listing the subdivisions of the vertebral column and identifying the parts of individual vertebral types.

9. Distinguishing among the selected types of body movements.
10. Describing the general structure and function of selected articulations.

**Competency 5:** The student will be able to understand the gross and microscopic anatomy of muscles and their physiology by:

1. Identifying and describing the locations, morphological and physiological characteristics of the three types of muscle tissue.
2. Describing the location and functions of the microscopic structures of skeletal muscle.
3. Identifying selected muscles of the axial region, and their actions.
4. Identifying selected muscles of appendicular region and their actions.
5. Demonstrating the physiological characteristics of motor units and whole skeletal muscle contraction.

**Competency 6:** The student will demonstrate an understanding of the structural and functional features of the nervous system including the special sense by:

1. Identifying the parts of a neuron.
2. Explaining the structural and functional classification of the neurons.
3. Describing the structure and functions of the supporting cells of the nervous system.
4. Distinguishing between neuron, nerve, and tract.
5. Explaining the structure and functions of the central nervous system and cranial nerves.
6. Describing the structure and functions of the spinal cord and the spinal nerves and their plexuses.
7. Demonstrating reflex physiology.
8. Distinguishing structures associated with vision and explaining their functions.
9. Differentiating structures associated with hearing and equilibrium explaining their functions.
10. Demonstrating the functions of the special senses and cranial nerves.

## **PARTICIPATION**

To succeed in this course, log in and participate multiple times throughout the week (check email, announcements, class discussions, feedback, etc.) so you do not miss critical course information and updates. Additionally, communication with your professor is very important and plays a vital role in your success.

## **WITHDRAWAL POLICY**

It is your responsibility to withdraw from this course. If you stop participating and do not withdraw by the deadline, you may receive an F.

## **STUDENT CODE OF CONDUCT**

The college policy on the Student Code of Conduct is located at <http://www.mdc.edu/procedures/chapter4/4071.pdf>. Please familiarize yourself with this document.

## **ACADEMIC DISHONESTY**

The department affirms its commitment to treat cases of academic dishonesty according to Miami-Dade Community College Procedure No. 4035. Students are forewarned that academic dishonesty in any form will be penalized according to this procedure. The instructor has the option to award a grade of "F" for the course. Cheating or any form of academic dishonesty may also result in the student's being placed on academic probation, suspended from school, or dismissed from the College. The College policy for dealing with Academic Dishonesty is located at: <http://www.mdc.edu/procedures/chapter4/4035.pdf>.

## **COURSE DROP**

It is the student's responsibility to drop this class within the time available. The College academic calendar is available at: [http://www.mdc.edu/academic\\_calendar/](http://www.mdc.edu/academic_calendar/).

## **DISABILITY STATEMENT**

The College makes every reasonable effort to ensure equal access to educational opportunities and experiences for students with documented disabilities. Students with documented disabilities should contact the campus ACCESS Services Department in advance for information on appropriate policies and procedures for obtaining assistance. ACCESS is the department responsible for coordinating services for students with disabilities. No retroactive services can be provided.

## STUDENTS' RIGHTS AND RESPONSIBILITIES HANDBOOK

To learn about policies addressing services for students with special needs, religious observations, grade appeals, code of conduct, and many other areas, please review the Student's Rights and Responsibilities Handbook at <https://www.mdc.edu/rightsandresponsibilities/>.

### METHODS OF EVALUATION

Assessment	Graded Points	Total Points
Syllabus Quiz on Lockdown Browser	4 Points	4 Points
3 Discussion Topics	5 Points Each	15 Points
2 Submission Assignments	10 Points Each	20 Points
2 Exams	50 Points Each	100 Points
<b>Total Points</b>		<b>139 Points</b>

### GRADING POLICY

<b>A</b>	<b>90% - 100%</b>	<b>125 - 139 Pts</b>
<b>B</b>	<b>80% - 89%</b>	<b>111 - 124 Pts</b>
<b>C</b>	<b>70% - 79%</b>	<b>97 - 110 Pts</b>
<b>D</b>	<b>60% - 69%</b>	<b>83- 96 Pts</b>
<b>F</b>	<b>59% &amp; Below</b>	<b>82 - 0 Pts</b>

Student averages will be determined by total points earned divided by total possible points.

### MISSED QUIZZES, EXAMS, AND ASSIGNMENTS

It is the student's responsibility to stay informed on the course activity schedule. Because dates are scheduled in advance, make-up quizzes, exams, and assignments will not be given. Any missed assignments will receive a grade of 0%. Lab practicals will begin at the scheduled class time.

### QUIZZES & TESTS

Quizzes and tests may be taken only during the availability dates as specified in the course schedule. Give yourself plenty of time to complete assessments and pay close attention to the time limits. Make sure you have a reliable Internet connection prior to taking quizzes or tests.

### PROCTORED TESTS

Your exams this semester will be proctored by Respondus Lockdown Browser/ Respondus Monitor. Respondus Lockdown Browser is an online proctoring service that allows you to take your exam from the comfort of your home. To use Respondus Lockdown Browser/ Respondus Monitor, you will need a computer, webcam, and a stable internet connection.

Please find LockDown Browser installation instructions below.

### Student version of the LockDown Browser.

Respondus LockDown Browser uses a standard Windows or Mac **installer** that can be downloaded by faculty or students from the following link: <http://www.respondus.com/lockdown/download.php?id=953813111>

## BSC 2085L Tentative Course Activity Schedule I Summer 2020

<b>July 14:</b>	<ul style="list-style-type: none"> <li>● Syllabus Overview</li> </ul>
<b>July 16:</b>	<ul style="list-style-type: none"> <li>● Organs, Systems, and Organization of the Body</li> <li>● Tissues</li> </ul>
<b>July 21:</b>	<ul style="list-style-type: none"> <li>● Integumentary System</li> <li>● Introduction to the Skeletal System</li> </ul>
<b>July 23:</b>	<ul style="list-style-type: none"> <li>● Axial Skeleton</li> <li>● Appendicular Skeleton</li> <li>● Joints</li> </ul>
<b>July 28:</b>	● <b>MIDTERM EXAM REVIEW</b>
<b>July 30:</b>	<b>MIDTERM EXAM @2:00PM</b>
<b>Aug 04:</b>	<ul style="list-style-type: none"> <li>● Axial Muscles 1: Muscles of the Head and Neck</li> <li>● Axial Muscles 2: Muscles of the Trunk</li> </ul>
<b>Aug 06:</b>	<ul style="list-style-type: none"> <li>● Appendicular Muscles 1: Muscles of the Upper Limb</li> <li>● Appendicular Muscles 2: Muscles of the Lower Limb</li> </ul>
<b>Aug 11:</b>	<ul style="list-style-type: none"> <li>● Nervous Tissue, the Spinal Cord, and Spinal Nerves</li> <li>● The Brain and Cranial Nerves</li> </ul>
<b>Aug 13:</b>	<ul style="list-style-type: none"> <li>● Taste and Smell</li> <li>● Eye and Vision</li> </ul>
<b>Aug 18:</b>	● <b>FINAL EXAM REVIEW</b>
<b>Aug 20:</b>	<b>FINAL EXAM @2:00PM</b>

### Assignments and Due Dates

<b>July 21</b>	<ul style="list-style-type: none"> <li>• Syllabus Quiz</li> </ul>
<b>July 23</b>	<ul style="list-style-type: none"> <li>• Discussion 1</li> <li>• Assignment 1</li> </ul>
<b>July 30</b>	<ul style="list-style-type: none"> <li>• Discussion 2</li> </ul>
<b>August 6</b>	<ul style="list-style-type: none"> <li>• Discussion 3</li> </ul>
<b>August 13</b>	<ul style="list-style-type: none"> <li>• Assignment 2</li> </ul>

This lecture outline is tentative and any changes will be announced. Specific dates of activities may need to be changed due to unforeseen circumstances. It is the responsibility of each student to attend class in order to be informed of any schedule changes that may be announced.