

*Miami Dade College**BSC 2085 Summer B Term (2020)
SYLLABUS*

Class reference number: [REDACTED]

Classroom location: Blended, Remote Learning Format

Course dates: 7/13/2020 – 8/21/2020

Class time: Mondays, Wednesdays, and Fridays

8:00 am – 10:15 am, EST [REDACTED]

LIVE Lecture Classroom Link (Use it for ALL Live Lectures and Office Hours):

Office hours: Monday: 11:00 am – 1:00 pm,
Wednesday: 11:00 pm – 1:00 pm,
Thursday: 12:00 pm – 2:00 pm,

Office hours available via phone or online meeting. Office hours must be scheduled with the instructor via email.

Course title: Human anatomy and Physiology I.

The course will cover the aspects of anatomy and physiology of human body, the study of structure and functions of the systems of the human body. Making emphasis in those aspects that are more pertinent to students in the nursing and allied health technology programs in order to give the student a scientific background that allow him/her to solve problems during his/her daily job.

The textbook assigned to this class is:

Human anatomy and Physiology, by Frederick Martini.

- ISBN: 9781323760048
- Title: Fund of Anatomy & Physiology Pkg (Miami Dade College) (CUSTOM)
- Author: Martini
- Copyright Year: 2018
- Publisher: Pearson Learning Solutions

Download lecture PPTs:

<https://www.dropbox.com/sh/mhzn8wqh0f1p4vp/AACb-IOD1MCHrCVucasHuJsOa?dl=0>

Course Organization: Lecture Course (Blended, Remote Learning Format)

Due to the current COVID-19 pandemic and following the guidelines and policies of the Miami Dade College, the course content will be delivered in a “blended” context,

containing both synchronous and asynchronous online components. As a blended course occurring within a remote learning format, BSC2085 will feature:

1. Live online Blackboard Collaborate lectures synchronous with class times scheduled on the academic calendar. Students' login, attendance and participation in these sessions are MANDATORY.
2. Online learning activities, assignments, and assessments synchronous with class times to be completed within the class period.
3. Asynchronous online learning activities, assignments, and assessments to be completed at/before deadlines as stipulated by the instructor.

Obtaining class notes and handouts (if any) is the students' responsibility if a class is missed for any reason.

ATTENDANCE AND PARTICIPATION

Students are expected to attend every class as stipulated by the instructor. The instructor will keep a record of class attendance. Attendance will be recorded when students log into the Online Blackboard Classroom for live class sessions. It is the student's responsibility to notify the instructor in advance of any absence. The instructor reserves the right to withdraw students with more than three (3) unexcused absences. All the tests and assignments MUST be done. There is no make-up test for a missed exam. Please plan accordingly and do not miss the exams.

Students with three consecutive absences might be dropped from the roster by the professor without previous warning, **BUT IT IS THE STUDENT RESPONSIBILITY TO TRACK HIS/HER ATTENDANCE AND DROP HIM/HERSELF IF S/HE DECIDES TO STOP ATTENDING THE COURSE OR NEEDS TO, ACCORDING TO PERSONAL ISSUES, otherwise the student can receive an "F" as final grade.**

Examinations are worth 30 points each. All exams will be administered during the dates stated in the calendar given with this syllabus and must be taken at the times specified by the instructor.

All students must be aware of the academic dishonesty policies of MDC:

http://www.mdc.edu/policy/student_rights_and_responsibilities.pdf

Your final grade calculation will be based upon:

Attendance –	10%
Exam 1 –	30%
Exam 2 –	30%
Exam 3 –	30%
Total –	100%

Grading Scale is as follows:

90 – 100%	= A
80 – 89%	= B
70 – 79%	= C
60 – 69%	= D
0 – 59%	= F

A score of 69% of total grade is considered the minimum passing grade.

Make ups:

There is no make up for exams without the proper excuse.

THE STUDENT IS ABSOLUTELY RESPONSIBLE TO COMMUNICATE WITH THE PROFESSOR TO SCHEDULE A DATE AND TIME FOR THE MAKE UP (IF APPROVED AT THE DISCRETION OF THE INSTRUCTOR UPON PRESENTING THE ADEQUATE WRITTEN EXCUSE). THE STUDENT WILL NEED TO ACCOMMODATE TO THE INSTRUCTOR. MAKE UPS (IF APPROVED) WILL NEED TO BE DONE MAXIMUM DURING THE FOLLOWING WEEK OF THE EXAM MISSED. IF THE STUDENT DOES NOT MAKE ANY ARRANGEMENT WITH THE INSTRUCTOR, THE STUDENT WILL EARN A GRADE OF ZERO (0)

There is no make up for vacation, traveling or other personal unexcused absences.

General recommendations:

- ✓ 3 hours of study time for each hour of class time.
- ✓ Attend class regularly and take notes.
- ✓ Read and outline the material for the next class.
- ✓ Review class notes, power points, and book chapters.
- ✓ Try not to memorize but understand the concepts.
- ✓ Be always on time.
- ✓ Check your e-mail accounts daily.
- ✓ Communicate with the instructor if in doubt, have questions or any other class-related issues.

Anatomy& Physiology - BSC-2085 Course competencies

Common Course Number: BSC-2085

Course Title: Human Anatomy and Physiology I Lecture

Competency 1: The Sciences of Anatomy and Physiology

Upon successful completion of this course, the student will be able to understand the meaning of these two terms by:

- 1.1 Defining anatomy and physiology and explaining how they are related.
- 1.2 Defining homeostasis and its mechanisms and explaining its importance to survival.
- 1.3 Describing a feedback system and differentiating between positive and negative feedback.

Competency 2: Organization of the Human Body

Upon successful completion of this course, the student will be able to describe how the body is organized by:

- 2.1 Identifying the major regions of the body utilizing appropriate anatomical terminology.
- 2.2 Defining the anatomical planes used to locate parts of the body
- 2.3 Describing the locations of the major body cavities and listing the major organs in each cavity.

Competency 3: Introductory Chemistry

Upon successful completion of this course, the student will be able to understand the basic knowledge of chemistry as it relates to anatomy and physiology by:

- 3.1 Defining the functions of water, acids, bases, and the concept of pH.
- 3.2 Discussing the functions of carbohydrates, lipids, proteins, and nucleic acids.
- 3.3 Explaining the role of enzymes in living systems.

Competency 4: Cells and Tissues

Upon successful completion of this course, the student will be able to understand the major cellular organelles and tissue types, and explain their function by:

- 4.1 Identifying the major cellular organelles.
- 4.2 Explaining how substances move into and out of cells.
- 4.3 Describing how a cell divides.
- 4.4 Identifying the four basic tissue types that comprise the human body: epithelial, connective, muscle, and nervous tissues.

Competency 5: The Integumentary System

Upon successful completion of this course, the student will be able to understand the integumentary system and explain its functions by:

- 5.1 Describing the structure of the skin.
- 5.2 Describing the effects of aging on the integumentary system.

Competency 6: The Skeletal System

Upon successful completion of this course, the student will be able to understand the skeletal system and explain its functions by:

- 6.1 Describing the factors involved in ossification and bone growth.
- 6.3 Identifying the axial and appendicular divisions and their major bones
- 6.4 Describing the effects of aging on the skeletal system.

Competency 7: Joints

Upon successful completion of this course, the student will be able to know the different kinds of joints by:

- 7.1 Defining a joint and describing how the structure of a joint determines its function.
- 7.2 Describing the structure of the different type of joints, and how are their functions related.
- 7.3 Explaining the effects of aging on joints.

Competency 8: The Muscular System

Upon successful completion of this course, the student will be able to understand the muscular system by:

- 8.1 Describing the location, function(s), and characteristics of each type of muscle tissue: smooth, cardiac, and skeletal.
- 8.2 Explaining the major events that occur during muscle fiber contraction.
- 8.3 Describing the sources of ATP and oxygen necessary for muscle contraction.
- 8.4 Describing how exercise affects skeletal muscle.

Competency 9: Nervous Tissue

Upon successful completion of this course, the student will be able to understand the basic structure of nervous tissue by:

- 9.1 Describing the basic components and general functions of the nervous tissue.
- 9.2 Comparing the structure and function of neurons and neuroglia.
- 9.3 Explaining how nerve impulses are transmitted from neuron to neuron and neuron to muscle.

Competency 10: The Control Systems: Nervous and Endocrine

Upon successful completion of this course, the student will be able to understand the nervous and endocrine systems by:

- 10.1 Defining central nervous system.
- 10.2 Naming the major parts of the brain and describing the functions of each.
- 10.3 Describing the spinal cord and its function
- 10.4 Listing and defining the major parts of the peripheral nervous system.
- 10.5 Describing the general characteristics of the autonomic nervous system.
- 10.6 Describing the two general mechanisms of hormone action as they relate to neural transmission.
- 10.7 Explaining the relationship between the hypothalamus and the pituitary.
- 10.8 Describing the function(s) of the major endocrine glands.
- 10.9 Explaining how stress affects the nervous and endocrine systems.

Course Schedule - BSC 2085 Summer B 2020

L#	DATE	EXAMS	LECTURE TOPICS	READING
1	MON, 7/13	-	An introduction to Anatomy and Physiology	Ch 1
2	WED, 7/15	-	Chemistry of life	Ch 2
3	FRI, 7/17	-	The Cell	Ch 3
4	MON, 7/20	-	Tissues	Ch 4
5	WED, 7/22	-	Integumentary system	Ch 5
6	FRI, 7/24	EXAM 1	Osseous tissue and bone structure	Ch 6
7	MON, 7/27	-	Axial Skeleton	Ch 7
8	WED, 7/29	-	Appendicular skeleton	Ch 8
9	FRI, 7/31	-	Joints	Ch 9
10	MON, 8/3	-	Muscle tissue	Ch 10
11	WED, 8/5	-	Muscle tissue	Ch 10
12	FRI, 8/7	EXAM 2	Nervous tissue	Ch 12
13	MON, 8/10	-	Nervous tissue	Ch 12
14	WED, 8/12	-	Spinal cord, spinal nerves and spinal reflexes	Ch 13
15	FRI, 8/14	-	Brain and cranial nerves	Ch 14
16	MON, 8/17	-	ANS	Ch 16
17	WED, 8/19	-	Special senses	Ch 17
18	FRI, 8/21	EXAM 3	-	-