

Course Syllabus

[Jump to Today](#)

 [Edit](#)



MARIAN UNIVERSITY
Indianapolis

BIO 226 General Human Physiology 5 Credits

Spring 2019

Online Instructor:

Email: Please contact via Canvas email

Required Textbook(s):

Principles of Human Physiology, 6/E, Stanfield, 2017, Pearson Publishers, ISBN 9780134169804.

Textbook Resources Website:

<http://physioex.com/login.html> (<http://physioex.com/login.html>) You **MUST** purchase an “Access Code” to **PhysioEx9.1** for the Laboratory portion of the course.

Additional Resources:

The Mother Teresa Hacklemeier Memorial Library at Marian University provides various databases

<http://www.marian.edu/library/Pages/default.aspx> (<http://www.marian.edu/library/Pages/default.aspx>)

Prerequisites:

None, but BIO 225 and CHE 100 are strongly recommended.

Course Description

The content of this course will provide a full description of all the essential aspects of human physiology. This course is designed to provide all the essential physiological content required for anyone going forward into a health profession.

Upon successful completion of this course, students will be able to:

Student Learning Objectives

Student Learning Outcomes

- demonstrate knowledge of medical terminology associated with the physiology of each system
- specify adaptation mechanisms for maintaining internal homeostasis
- demonstrate knowledge of cell structure, protein synthesis, enzyme kinetics, energy production, cell metabolism, and membrane transport
- demonstrate knowledge of neurophysiology
- identify similarities and differences between the functioning of the external and internal components of the nervous system
- demonstrate knowledge of the sensory receptors
- relate the functioning of different cellular types to the human system in which they are located
- identify the components of the circulatory system including arteries, veins, and the heart and how they function
- demonstrate the ability to trace the flow of blood through the heart
- demonstrate knowledge of the immune system and its importance in the immunological response
- demonstrate knowledge of the physiology of the respiratory, digestive, and urinary systems
- discuss the functional similarities/differences of each organ within each system
- demonstrate knowledge of the endocrine system and to relate it to the nervous system as a means by which it directs the functioning of the human body

Teaching Strategies

Audios, discussion, assigned readings, web-based activities, assignments.

Lectures:

All questions on the lecture exam will deal with material covered in the online lectures. Therefore, it is greatly to your advantage to view the lectures.

Laboratory:

All questions on the laboratory exam will deal with material covered in the online computer simulations found on the Mastering A&P website under the heading PhysioEx 9.1. Therefore, it is greatly to your advantage to work thoroughly through the computer simulations. You will understand the online computer simulations if you read through the pages associated with the computer simulation and the "Lab Intro/Review" sheets linked to each of the Modules PRIOR to attempting the simulation.

Assignments & Assessment Methods:

Methods of Evaluation

I. The **lecture contribution** to the overall grade is determined based on the following point total:

400 points: Four 100-point exams (each exam consists of 50 multiple-choice questions) will be given. The exams will not be cumulative. **YOU WILL HAVE 60 MINUTES TO COMPLETE THE LECTURE EXAM.**

II. The **laboratory contribution** to the overall grade is determined based on the following point total:

100 points: Four 25-point exams will be given. These tests will have 25 multiple-choice questions worth one point each. **YOU WILL HAVE 30 MINUTES TO COMPLETE THE LAB EXAM.**

Grading Scale

Proposed Grading Scale: Total points = 500 (approximately 80% from lecture and 20% from lab).

93% - 100%	(465.0 - 500.0 pts)	= A
90% - 92.9%	(450.0 - 464.9 pts)	= A-
87% - 89.9%	(435.0 - 449.9 pts)	= B+
83% - 86.9%	(415.0 - 434.9 pts)	= B
80% - 82.9%	(400.0 - 414.9 pts)	= B-
77% - 79.9%	(385.0 - 399.9 pts)	= C+
73% - 76.9%	(365.0 - 384.9 pts)	= C
70% - 72.9%	(350.0 - 364.9 pts)	= C-
67% - 69.9%	(335.0 - 349.9 pts)	= D+
63% - 66.9%	(315.0 - 334.9 pts)	= D
00% - 62.9%	(000.0 - 314.9 pts)	= F

Course Policies:

Student Handbook

Please refer to the Student Handbook for academic and school of nursing policies. The Student Handbook provides information regarding:

All Nursing students are responsible for reviewing and signing the School of Nursing Student Handbook each semester which holds you accountable for all information and addendums made

throughout the semester.

NOTE: Students with disabilities who have proper documentation must contact the Director of Academic Support Services in the Learning and Counseling Center to set up a documentation review. If after the review, accommodations are deemed appropriate, an accommodation plan will be developed. As per the ADA (Americans with Disabilities Act) no accommodations can be provided until this process is complete. Contact Marj Batic, Director of Academic Support Services (mbatic@marian.edu; 317.955.6150; or stop by the office in Clare Hall).

Note: Students who may require assistance in emergency evacuations should contact the instructor as to most appropriate procedure to follow. If there are questions regarding such a procedure, contact the Dean of Student Affairs (Ruth Rodgers – rrodders@marian.edu) or the Director of Academic Support Service for additional information.

****Any changes to this syllabi will be communicated to the student.**

















Course Outline

Schedule

Course Summary:

Date

Details

Date	Details
	 Lab Exam 1 (https://marian.instructure.com/courses/2398886/assignments/19249985)
	 Lab Exam 1 v9/17 (https://marian.instructure.com/courses/2398886/assignments/19249980)
	 Lab Exam 2 (https://marian.instructure.com/courses/2398886/assignments/19249954)
	 Lab Exam 2 v9/17 (https://marian.instructure.com/courses/2398886/assignments/19249938)
	 Lab Exam 3 (https://marian.instructure.com/courses/2398886/assignments/19249950)
	 Lab Exam 3 v3/18 (https://marian.instructure.com/courses/2398886/assignments/19249971)
	 Lab Exam 4 (https://marian.instructure.com/courses/2398886/assignments/19249969)
	 Lab Exam 4 v9/17 (https://marian.instructure.com/courses/2398886/assignments/19249966)
	 Lecture Exam 2 (https://marian.instructure.com/courses/2398886/assignments/19249961)
	 Lecture Exam 1 (https://marian.instructure.com/courses/2398886/assignments/19249937)
	 Lecture Exam 1 V8/17 (https://marian.instructure.com/courses/2398886/assignments/19249942)
	 Lecture Exam 2 V8/17 (https://marian.instructure.com/courses/2398886/assignments/19249956)
	 Lecture Exam 3 (https://marian.instructure.com/courses/2398886/assignments/19249976)
	 Lecture Exam 3 V8/17 (https://marian.instructure.com/courses/2398886/assignments/19249947)
	 Lecture Exam 4 (https://marian.instructure.com/courses/2398886/assignments/19249940)
	 Lecture Exam 4 V8/17 (https://marian.instructure.com/courses/2398886/assignments/19249957)