



SCHOOL OF STEM SYLLABUS



TERM:

COURSE CODE: BIO-211

COURSE TITLE: Anatomy & Physiology II

DAY(S) AND TIME(S):

LOCATION:

INSTRUCTOR:

OFFICE HOURS:

OFFICE LOCATION:

EMAIL:

PHONE:

COURSE PREREQUISITE: BIO-111

CREDITS: 4

COURSE DESCRIPTION:

Anatomy and Physiology II is a continuation of Anatomy and Physiology I where students will learn about different human physiological systems. Specifically, students will learn about the cardiovascular system, the endocrine system, the urinary system, the immune and lymphatic system, the digestive system and the reproductive system. Students will also dissect several specimens related to the lectures covered.

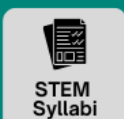
STUDENT LEARNING OUTCOMES:

Upon completion of this course, student will be able to:

1. Understand the composition, function and importance of the cardiovascular system through lecture and hands on dissections.
2. Identify the different types of glands and their functions in the human body.
3. Discuss the components of the immune system and the different types of responses of the body.
4. Explain the function of the urinary system and the different pathological conditions of its dysfunction.
5. Experiments with the different specimens and lab models of the different organs and human systems.
6. Identify the organs and structure part of the male and female reproductive system and their function.
7. Identify the different organs of the digestive system and their function.
8. Discuss the anatomy and function of the respiratory systems and its importance in maintaining human health.
9. Discuss the interaction between different physiological systems of the body and diseases associated with its dysfunction.

STEM STUDENT HUB

Information & Resources tailored towards students taking any STEM courses



TEXTBOOK AND SUPPLEMENTAL MATERIALS:

TEXT: Human anatomy & physiology. 11th or 12 editions. Elaine N. Marieb & Katja Hoehn
ISBN:978-0134807409

LAB MANUAL: Human anatomy & physiology. 11th or 12 editions. Elaine N. Marieb & Katja

GRADING POLICY:

Two Exams	20 points
Two Practical Exams	20 points
Final Comprehensive Exam	30 points
Midterm	20 points
Laboratory Reports/Assignments	10 points

Make up exams will be given only in extenuating circumstances. It is your responsibility to let me know that you missed an exam. All make up exams are more difficult than the original.

Attendance, punctuality and participation are required. Students missing more than 2 classes may receive a failing grade. Cell phones should be turned off in the classroom.

Lab Format: Unless indicated otherwise, each laboratory exercise is set up for team of four-five students. Each student on the team is to participate in every aspect of the lab exercise. After each exercise, a formal lab report is handed in for grading. The lab reports are written (word processed) individually, not as a team, and handed in during the next lab session. You are required, by department policy, to follow all safety procedures. Each lab team is responsible for cleaning up their work area after every lab.

SAMPLE COURSE SCHEDULE:

Week #	Lecture Topic	Lab Topic	SOL
1	Introduction to the Course	Lab Safety Rules	1
2	The Endocrine System	Endocrine glands and tissue microscopy	2,5,9
3	Endocrine Cardiovascular system Heart	Dissection of the sheep heart	1,5,9

4	Cardiovascular Circulation	Blood typing, blood microscopy, and blood pressure practice.	1,5,9
5	Blood	Blood Typing	1,5,9
6	Respiratory System	Dissection of the sheep pluck, & lung microscopy.	8,5,9
7	Digestive System	Dissection of the fetal pig and small intestine microscopy.	7,5,9
8	Urinary system	Dissection of the sheep Kidney and nephron microscopy.	4,5,9
9	Immune System	Antibody reactions	1,2,5,9
10	Immune System	White blood cells microscopy	3,5,9
11	Lymphatic System	Lymphatic system lab	3,5,9
12	Female Reproductive System	Female Reproductive system lab	6,5,9
13	Male Reproductive System	Male Reproductive system lab	6,5,9
14	Comprehensive Final Review	Lab Final Exam	1-9
15	Comprehensive Final Exam		

HCCC POLICIES, STATEMENTS, AND SERVICES:

<https://www.hccc.edu/administration/academic-affairs/syllabus-addendum.html>



