

Basic Course Information

Semester:	SPRING 2021	Instructor Name:	SUSAN MOSS
Course Title & #:	BIOL 202 (HUMAN ANATOMY & PHYSIOLOGY 2)	Email:	SUSAN.MOSS@IMPERIAL.EDU
CRN #:	20041	Webpage (optional):	NA
Classroom:	ONLINE	Office #:	NA
Class Dates:	ONLINE	Office Hours:	M-R: 10 – 11 AM (ONLINE)
Class Days:	ONLINE	Office Phone #:	760-355-5760
Class Times:	ONLINE	Emergency Contact:	NA
Units:	4	Class Format:	ONLINE

Course Description

Part two of a two semester study of the structure and function of the human organism, from the molecular to the gross level. This course may require the use of human cadavers for observation and/or dissection. Preparatory for RN program and paramedical programs (CSU).

Course Prerequisite(s) and/or Corequisite(s)

Completion of BIOL 200 with a grade of C or better, or MATH 90 or 91 with a grade of C or better and current California LVN license.

Student Learning Outcomes

Upon course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to:

1. Display critical thought related to key concepts in human anatomy and physiology using written and/or oral forms of expression and examination. (ILO1, ILO2, ILO5)
2. Identify basic anatomy and physiological processes related to the human body. (ILO1, ILO2)

Course Objectives

1. Describe the structures and functions of the endocrine system, including the major endocrine glands and hormones.
2. Describe the structures of the heart, the physiology of the cardiac cycle, blood components, and factors relating to blood pressure and blood clotting.
3. Describe the structures and functions of the lymphatic system and the components of the body's immune system and defenses.
4. Describe the structures and functions of the respiratory system, and explain gas exchange and transport.
5. Describe the structures and functions of the urinary system, formation of urine, fluid and electrolytic balance, and acid-base balance.
6. Describe the structures and functions of the digestive system, including enzymatic processes, absorption and excretion.



7. Describe the utilization of nutrients for proper system functioning and ATP production.
8. Describe the structures and functions of the male and female reproductive systems, including egg and sperm production.
9. Discuss human heredity and the developmental stages from fertilization to birth.
10. Discuss changes within the human organism due to the aging process.
11. Demonstrate dissection skills using animals and/or a human cadaver.

Textbook

Anatomy & Physiology: The Unity of Form and Function, by Ken Saladin, McGraw Hill Publishers. 2021.

Course Requirements and Instructional Methods

This online course incorporates PowerPoints, videos, simulated labs, and at-home activities related to the understanding of the human body. There will be open-book exams, worksheets, videos to watch, and online labs to complete.

Course Grading Based on Course Objectives

Final grades are calculated using a simple point system. If your test average is $\geq 70.0\%$, your grade will be based on the total points you earn divided by the total points possible. The grading scale will be:

A $\geq 90\%$ B = 80-89% C = 70-79% D = 60-69% F $\leq 59\%$

- ◆ Exams: 50-200 pts. each
- ◆ *Labster* simulated labs: 25 pts each
- ◆ Misc. assignments: 10-15 pts each

IVC Student Resources

IVC wants you to be successful in all aspects of your education. For help, resources, services, and an explanation of policies, visit <http://www.imperial.edu/studentresources> or click the heart icon in Canvas.

Anticipated Class Schedule/Calendar

WEEK	Starts on	EXAMS & ASSIGNMENTS
1	2/14	Introduction to class AT-HOME – organ system review Video Assignment
2	2/21	Introduction to Anatomy & Physiology & Key Concepts AT-HOME – Diffusion & S/V activities

		LABSTER ASSIGNMENT: Homeostatic Control
3	2/28	EXAM 1 – Introductory Material Ch 17 – Endocrine System LABSTER ASSIGNMENT: Endocrinology
4	3/7	EXAM 2 – Endocrine System Ch 18-20 – Cardiovascular System LABSTER ASSIGNMENT: Hematology
5	3/14	EXAM 3 – Cardiovascular System (Blood & Heart) AT-HOME – Assessing cardio health Video Assignment
6	3/21	EXAM 4 – Cardiovascular System (Blood Vessel ID) Ch 22 – Respiratory System LABSTER ASSIGNMENT: Cardio-Respiratory
7	3/28	EXAM 5 – Respiratory System Ch 21 – Lymphatic System & Immunity LABSTER ASSIGNMENT: Immunology
		
8	4/11	EXAM 6 – Lymphatic System & Immunity Ch 25 – Digestive System LABSTER ASSIGNMENT: Food Macromolecules AT-HOME – Nutrition Label Activity
9	4/18	EXAM 7 – Digestive System Ch 26 – Cellular Respiration LABSTER ASSIGNMENT: Cellular Respiration
10	4/25	EXAM 8 – Cellular Respiration Ch 23 – Urinary System LABSTER ASSIGNMENT: Renal Lab
11	5/2	EXAM 9 – Urinary System Ch 24 – Fluid Balance LABSTER ASSIGNMENT: Acids & Bases
12	5/9	EXAM 10 – Fluid Balance Ch 27 – Meiosis, Male Reproductive System LABSTER ASSIGNMENT: Meiosis
13	5/16	Ch 28 – Female Reproductive System Video Assignment
14	5/23	EXAM 11 – Reproductive Systems Ch 28/29 – Pregnancy & Development LABSTER ASSIGNMENT: Embryology
15	5/30	EXAM 12 – Pregnancy & Development Ch 4 – Genetics & Heredity LABSTER ASSIGNMENT: Medical Genetics



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		AT-HOME – “Fun with Genes!”
16	6/6	EXAM 13 - FINAL EXAM (Genetics & Heredity)

*****Subject to change without prior notice*****