

### Basic Course Information

Semester:	<b>FALL 2021</b>	Instructor Name:	<b>SUSAN MOSS</b>
Course Title & #:	<b>BIOL 200 (HUMAN ANATOMY &amp; PHYSIOLOGY 1)</b>	Email:	<b>SUSAN.MOSS@IMPERIAL.EDU</b>
CRN #:	<b>10020</b>	Webpage (optional):	<b>NA</b>
Classroom:	<b>ONLINE</b>	Office #:	<b>NA</b>
Class Dates:	<b>ONLINE</b>	Office Hours:	<b>M-R: 10 – 11 AM (ONLINE)</b>
Class Days:	<b>ONLINE</b>	Office Phone #:	<b>760-355-5760</b>
Class Times:	<b>ONLINE</b>	Emergency Contact:	<b>NA</b>
Units:	<b>4</b>	Class Format:	<b>ONLINE</b>

### 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

Upon satisfactory completion of the course, students will be able to:

1. List the classification and characteristics of the human organism and describe the body's organization, regions, and cavities.
2. Describe the structure and function of cells and cell division.
3. Describe the structure and function of DNA and how proteins are made.
4. List and describe the types, functions, and locations of the different tissues in the body.
5. Describe the structures and functions of the integumentary system.
6. Describe the structures and functions of the skeletal system and identify the main bones and joints.
7. Explain the basics of muscle contraction and identify selected muscles.
8. Explain transmission and regulation of nerve impulses, and describe the structures and functions of the brain, spinal cord, and sensory organs.

## 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: 40-200 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	8/15	Introduction to A&P terminology Atlas A and Appendix E: Language of anatomy & word roots <b>Video Assignment 1 – Science (due 8/20, 5pm)</b> <b>LABSTER ASSIGNMENT: Scientific Method (due 8/20, 5pm)</b>
2	8/22	<b>EXAM 1 - Language of anatomy &amp; word roots</b> Metric System Review <b>LABSTER ASSIGNMENT: Microscopy (due 8/27, 5pm)</b>
3	8/29	<b>EXAM 2 – Metric</b> Ch. 1 - Introduction to A&P; Placebo



		<p><b>Video Assignment 2 – Placebos (due 9/3, 5pm)</b>  <b>LABSTER ASSIGNMENT: Homeostatic Control (due 9/3, 5pm)</b></p>
4	9/5	<p><b>EXAM 3 – Intro to A&amp;P; Placebo</b>            Ch. 2 – Chemical Basis of Life  <b>LABSTER ASSIGNMENT: Ionic &amp; Covalent Bonds (due 9/10, 5pm)</b></p>
5	9/12	<p><b>EXAM 4 – Chemistry</b>            Ch. 3 – Cell: Structure, Transport &amp; Division  <b>At-home diffusion experiment – DUE 9/17</b>  <b>LABSTER ASSIGNMENT: Cell Structure (due 9/17, 5pm)</b></p>
6	9/19	<p><b>EXAM 5 – Cells</b>            Ch. 4 – DNA; Protein Synthesis  <b>Video Assignment 3 – CRISPR (due 9/24, 5pm)</b>  <b>LABSTER ASSIGNMENT: Introduction to Protein Synthesis (due 9/24, 5pm)</b></p>
7	9/26	<p><b>EXAM 6 – DNA, Proteins</b>            Ch. 5 – Histology  <b>LABSTER ASSIGNMENT: Mitosis (due 10/1, 5pm)</b></p>
8	10/3	<p><b>EXAM 7 – Tissues</b>            Ch. 7 &amp; 9 – Skeletal System &amp; Joints  <b>LABSTER ASSIGNMENT: Tissue Engineering (due 10/8, 5pm)</b></p>
9	10/10	<p><b>EXAM 8 – Skeletal/Joints</b>            Ch. 8 - Bone and Bone Structure ID  <b>At-home skeleton craft project (due 10/16)</b></p>
10	10/17	<p><b>EXAM 9 – Bone ID</b>            Ch. 6 – Integumentary System  <b>Video Assignment 4 – skin due 10/22, 5pm)</b></p>
11	10/24	<p><b>EXAM 10 – Integument</b>            Ch.11 – Muscles  <b>LABSTER ASSIGNMENT: Muscle Tissues (due 10/29, 5pm)</b>  <b>At-home muscle fatigue lab activity (due 10/29, 5 pm)</b></p>
12	10/31	<p><b>EXAM 11 – Muscles</b>            Ch 12-15 – Nervous System  <b>LABSTER ASSIGNMENT: Skeletal Muscle (due 11/5, 5pm)</b></p>
13	11/7	<p>Ch 12-15 – Nervous System cont.  <b>LABSTER ASSIGNMENT: Action Potential (due 11/12, 5pm)</b></p>
14	11/14	<p><b>EXAM 12 – NS</b>  <b>Video Assignment 5 – Sleep &amp; Eyewitness Testimony (due 11/19, 5pm)</b>  <b>Nervous System Written Assignment (due 11/19, 5pm)</b></p>
		<p><i>Happy Thanksgiving!</i></p>
15	11/28	<p>Ch 16 - Senses  <b>At-home sensory activities (due 12/3)</b></p>



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		<b>Video Assignment 6 – Senses (due 12/3, 5pm)</b> <b>LABSTER ASSIGNMENT: Sensory Transduction (due 12/3, 5pm)</b>
<b>16</b>	<b>12/5</b>	<b>EXAM 13 - FINAL EXAM (Senses)</b>

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