IMPERIAL VALLEY COLLEGE

Basic Course Information

Semester:	**FALL 2022**	Instructor Name:	**SUSAN MOSS**
Course Title & #:	**BIOL 200 (HUMAN ANATOMY & PHYSIOLOGY 1)**	Email:	**SUSAN.MOSS@IMPERIAL.EDU**
CRN #:	**10020**	Webpage (optional):	**NA**
Classroom:	**2736**	Office #:	**2776**
Class Dates:	**Starts 8/16**	Office Hours:	**M-R: 1-2:30; TR: 5:30-6**
Class Days:	**TR**	Office Phone #:	**760-355-5760**
Class Times:	**8:30 – 12:50**	Emergency Contact:	**NA**
Units:	**4**	Class Format:	**Face-to-face**

Course Description

Part one of a two semester study of the structure and function of the human organism, from the molecular to the gross level. Preparatory for RN program and paramedical programs (CSU).

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

MATH 091 or MATH 090 and CHEM 100 and BIOL 100 or BIOL 122 or BIOL 180 or BIOL 182. Or MATH 091 or MATH 090 with a grade of "C" or better and current California LVN/RN 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. (IL01, 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.

IMPERIAL VALLEY COLLEGE

Required Textbook

Customized Lab Manual available only in the IVC Bookstore

Course Requirements and Instructional Methods

This course incorporates PowerPoints and lab activities related to the understanding of the human body. There will be open-book quizzes, lab activities & worksheets, and lab practical exams.

Course Grading Based on Course Objectives

Final grades are calculated using a simple point system. If your practical exam average is ≥70.0%, your grade will be based on the total points you earn divided by the total points possible. If your practical exam average is <70%, you do not pass the course. The grading scale will be:

A ≥ 90% B = 80-89% C = 70-79% D = 60-69% F ≤ 59%

- Quizzes: 40 pts each
- Lab Practicals: 60 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

Subject to change without prior notice

		First Period	Second Period (LAB)
Week 1	8/16	Introduction	Language of Anatomy & Word Roots
	8/18	**QUIZ 1** - Scientific Method & Placebo Effect	Placebo video; Metric System
Week 2	8/23	**Open Lab Study Period 8:30 – 9:30**	**Practical 1 – 11:00** Anatomy Terms & Word Roots
	8/25	**QUIZ 2** - Introduction to A&P	Research project: Famous Anatomists and Physiologists
Week 3	8/30	**QUIZ 3** - Chemical Basis of Life	Cell Chemistry
	9/1	**Open Lab Study Period**	**Practical 2 – 11:00**

		8:30 – 9:30	Intro to A&P, Metric
Week 4	9/6	**QUIZ 4** - Cell Structure	Microscopy; Cell structure
	9/8	**QUIZ 5** - Cell Transport & Division	Diffusion; Cell cycle
Week 5	9/13	**Open Lab Study Period 8:30 – 9:30**	**Practical 3 – 11:00** Cell Chemistry
	9/15	**QUIZ 6** – Tissues 1& 2	Epithelial Tissues
Week 6	9/20	**QUIZ 7** – Tissues 1 & 2	Tissues – Connective, Muscle, Nervous
	9/22	**Open Lab Study Period 8:30 – 9:30**	**Practical 4 – 11:00** Cell Structure, Transport & Division
Week 7	9/27	**QUIZ 8** - DNA; Protein Synthesis	DNA & Protein Synthesis; Tissue review
	9/29	**Open Lab Study Period 8:30 – 9:30**	**Practical 5 – 11:00** Tissues
Week 8	10/4	Bone ID all day	… Continued
	10/6	**Open Lab Study Period 8:30 – 9:30**	**Practical 6 – 11:00** DNA & Proteins
Week 9	10/11	**QUIZ 9** - Integumentary System	Integument; Bone review
	10/13	**QUIZ 10** - Skeletal System & Joints	Skeletal tissue; Joints; Bone review
Week 10	10/18	**Open Lab Study Period 8:30 – 9:30**	**Practical 7 – 11:00** Bone ID
	10/20	**QUIZ 11** – Muscles 1	Muscles
Week 11	10/25	**QUIZ 12** – Muscles 2	IP - Muscles
	10/27	**Open Lab Study Period 8:30 – 9:30**	**Practical 8 – 11:00** Integument
Week 12	11/1	**QUIZ 13** - Nervous System 1	Nervous System
	11/3	**Open Lab Study Period 8:30 – 9:30**	**Practical 9 – 11:00** Muscular System

Week 13	11/8	**QUIZ 14** - Nervous System 2	Brain dissection
	11/10	Video: "Brain Sex"	----------

Week 14	11/15	**QUIZ 15** – Nervous System 3 (includes video assignment)	IP – Nervous System
	11/17	**QUIZ 16** - Senses	Senses

Thanksgiving Break

Week 15	11/29	**Open Lab Study Period 8:30 – 9:30**	**Practical 10 – 11:00** Nervous System
	12/1	**QUIZ 17** - Senses	Senses; Eye dissection

Week 16	12/6	**Open Lab Study Period 8:30 – 9:30**	**Practical 11 – 11:00** Senses