

### Basic Course Information

Semester:	<b>Fall 2022</b>	Instructor Name:	<b>Fatima Villalobos</b>
Course Title & #:	<b>Human Anatomy &amp; Physiology II – BIOL 202</b>	Email:	<b>fatima.villalobos@imperial.edu</b>
CRN #:	<b>10021</b>	Webpage (optional):	<b>N/A</b>
Classroom:	<b>Online</b>	Office #:	<b>2777</b>
Class Dates:	<b>8/15/22 – 12/10/22</b>	Office Hours:	<b>M 9:30-11am; T,Th 1:15pm-2:15pm; &amp; Fri 10-10:30am via email and Pronto, OR by appt.</b>
Class Days:	<b>N/A</b>	Office Phone #:	<b>760.355.5743</b>
Class Times:	Online	Emergency Contact:	<b>fatima.villalobos@imperial.edu or 760.355.5743</b>
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. (BIOL 200 & BIOL 202 = C-ID BIOL 115 B) (CSU) (UC credit limited. See a counselor.)

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

BIOL 200 with a grade of "C" or better; or appropriate placement as defined by AB705, or MATH 098 or MATH 091 with a grade of "C" or better, and current California LVN/RN license.

### Student Learning Outcomes

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. 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.

### Textbooks & Other Resources or Links

**Option #1:** OpenStax College. (2021). *Anatomy and Physiology*. OpenStax College, Retrieved from <https://openstax.org/details/books/anatomy-and-physiology> (Links to an external site.)

Your book is available in [web view and PDF for free](#). (in our Canvas course).

**Option #2:** Saladin, K. 2018. *Anatomy and Physiology: The Unity of Form and Function*, 9th Ed. McGraw-Hill Education. ISBN: 9781260256000

Also acceptable: 7<sup>th</sup> and 8<sup>th</sup> Editions

### Course Requirements and Instructional Methods

This course incorporates both lecture and lab material related to the understanding of the structures and functions of the human body. Teaching will be aided with the use of recorded PowerPoint lectures, based on the materials derived from the textbook and other sources. Students will be asked to answer questions relative to materials covered in each chapter. Models, charts, dissections, and microscopic specimen will be used during lab hours. **Missed sessions and late works will not receive any points.** There will be written exams, practical exams, discussions, lab activities and a mini-research project.

**Exams:** The course will include approximately eight non-cumulative lecture exams (30-50 pts each) and lab practical exams (20pts each), and a cumulative lab final exam. **There are NO Make-Up exams or class/ lab activities** except for extreme circumstances. If you have a valid, documented reason for missing an exam, it is your responsibility to tell me about it and provide valid documentation by the next class meeting, otherwise you will not have the opportunity to make up the exam and will be given a zero for that exam.

**Lab assignments:** There will be ten assigned labs throughout the semester. Simulated laboratory experiments and concept exploration will occur through the use of Labster.

### Labster Hardware Requirements for this Course

Minimum System Requirements: Labster simulations can only be used on laptop or desktop based computers, which meet the following requirements:

- Processor: Dual core 2 GHz or higher
- Memory: 4 GB or more
- Graphic card: Intel HD 3000 / GeForce 6800 GT / Radeon X700 or higher



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- OS: Latest version of Windows (64-bit) or Mac OS or ChromeOS
- Supported browsers: Latest version of Firefox and Chrome
- A stable internet Connection

### **iPad/Phone/Tablets not yet supported**

*Important: Labster simulations do not yet run on mobile devices such as smart phones and tablets. They are working on adding this in the future.*

### **Chromebook Support**

Labster's virtual lab simulations are accessible on Chromebooks that meet the minimum specifications above. Since there are many different Chromebooks, it can be difficult to determine if your specific Chromebook meets those specifications.

For more information on Technology Support and Requirements, see our Canvas class page.

**Discussions/Other Assignments:** There will be fourteen assigned Discussions in the semester. Discussions will require a well thought out and supported response to a specific question, as well as responses to classmates' posts that result in collaborative conversations.

**Individual Project/Presentation:** Students will record and submit an oral mini presentation on Disorders of a Body System. Details to follow on CANVAS.

Out of Class Assignments: The Department of Education policy states that one (1) credit hour is the amount of student work that reasonably approximates not less than one hour of class time and two (2) hours of out-of-class time per week over the span of a semester. WASC has adopted a similar requirement.

### **What if I need to borrow technology or access to WIFI?**

1. To request a loaner laptop, MYFI device, or other electronic device, please submit your request here: <https://imperial.edu/students/student-equity-and-achievement/>
2. If you'd like access the WIFI at the IVC campus, you can park in parking lots "I & J". Students must log into the IVC student WIFI by using their IVC email and password. The parking lots will be open Monday through Friday from 8:00 a.m. to 7:00 p.m.

### Guidelines for using parking WIFI:

- Park in every other space (empty space BETWEEN vehicles)
- Must have facemask available
- For best reception park near buildings
- Only park at marked student spaces



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- Only owners of a valid disabled placard may use disabled parking spaces
- Only members of the same household in each vehicle
- Occupants **MUST** remain in vehicles
- Restrooms and other on-campus services not available
- College campus safety will monitor the parking lot
- Student code of conduct and all other parking guidelines are in effect
- Please do not leave any trash behind
- No parking permit required**

If you have any questions about using parking WIFI, please call Student Affairs at 760- 355-6455.

**DATES TO REMEMBER: (please check Imperial Valley College Important Dates & Deadlines)**

- **August 28, 2021:** Last day to drop WITHOUT “W”
- **September 5, 2021:** Holiday-Labor Day. No classes.
- **November 5, 2021 (Saturday):** Last day to drop WITH “W”
- **November 11, 2021:** Holiday- Veterans’ Day. No classes.
- **November 21-27:** Holiday- Thanksgiving Recess. No classes.
- **December 10, 2021:** Fall Semester Classes End

**Course Grading Based on Course Objectives**

Your course grade will be based on exams, lab assignments, discussions, reading assignments and research project/oral presentation. Anticipated points awarded toward the final grade include:

▪ 8 Non-Cumulative Exams	8 x 50 pts	=	400 pts
▪ Final Cumulative Lab Practical	1 x 30 pts	=	30 pts
▪ Labs	10 x 15 pts	=	150 pts
▪ Discussions	14 x 10 pts	=	140 pts
▪ Presentation/Project	1 x 30 pts	=	30 pts

TOTAL 750 pts

Total possible points = 750 points. Calculating Grade Point; To calculate your grade, add all the points earned during the course, divide that value by total possible points, and multiply by 100. Example; if the total points that you earned is 650 points out of 750 possible points, your average grade for the course would be;  $(650/750) \times 100 = 86\%$  which equals the letter grade “B”. Extra Credit may be awarded in the form of critical thinking questions or bonus questions on exam.

Grading scale: A  $\geq$  90 %      B  $\geq$  80%      C  $\geq$  70%      D  $\geq$  60%

**Course Policies**

**Attendance**

- A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online class will be dropped by the instructor as of the first official meeting of that class. Should readmission be desired, the student's status will be the same as that of any other student who desires to add a class. It is the student's responsibility to drop or officially withdraw from the class. See [General Catalog](#) for details.
- Regular attendance in all classes is expected of all students. A student whose continuous, unexcused absences exceed the number of hours the class is scheduled to meet per week may be dropped. For online courses, students who fail to complete required activities for two consecutive weeks may be considered to have excessive absences and may be dropped.
- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as 'excused' absences.

### What does it mean to “attend” an online class?

Attendance is critical to student success and for IVC to use federal aid funds. Acceptable indications of attendance are:

- Student submission of an academic assignment
- Student submission of an exam
- Student participation in an instructor-led Zoom conference
- Documented student interaction with class postings, such as an interactive tutorial or computer-assisted instruction via modules
- A posting by the student showing the student's participation in an assignment created by the instructor
- A posting by the student in a discussion forum showing the student's participation in an online discussion about academic matters
- An email from the student or other documentation showing that the student has initiated contact with a faculty member to ask a question about an academic subject studied in the course.

Logging onto Canvas alone is NOT adequate to demonstrate academic attendance by the student.

### Online Netiquette

- What is netiquette? Netiquette is internet manners, online etiquette, and digital etiquette all rolled into one word. Basically, netiquette is a set of rules for behaving properly online.
- Students are to comply with the following rules of netiquette: (1) identify yourself, (2) include a subject line, (3) avoid sarcasm, (4) respect others' opinions and privacy, (5) acknowledge and return messages promptly, (6) copy with caution, (7) do not spam or junk mail, (8) be concise, (9) use appropriate language, (10) use appropriate emoticons (emotional icons) to help convey meaning, and (11) use appropriate intensifiers to help convey meaning [do not use ALL CAPS or multiple exclamation marks (!!!!)].

### How am I expected to act in an online “classroom” (especially Zoom)?

Attending a virtual meeting can be a challenge when there are many students on one conference call.

Participating in such meetings may count as class attendance, but disruptive behavior may also result in you not being admitted to future meetings. Follow the tips below for best results:

- 1) **Be RESPECTFUL**
  - a. Your written, verbal, and non-verbal communications should be respectful and focused on the learning topics of the class.
- 2) **Find a QUIET LOCATION & SILENCE YOUR PHONE (if zooming)**
  - a. People walking around and pets barking can be a distraction.
- 3) **EAT AT A DIFFERENT TIME.**
  - a. Crunching food or chugging drinks is distracting for others.
  - b. Synchronous zoom times are set in advance so reserve meals for outside class meetings.
- 4) **ADJUST YOUR LIGHTING SO THAT OTHERS CAN SEE YOU**
  - a. It is hard to see you in dim lighting so find a location with light.
  - b. If your back is to a bright window, you will be what is called “backlit” and not only is it hard on the eyes (glare) but you look like a silhouette.
- 5) **POSITION THE CAMERA SO THAT YOUR FACE AND EYES ARE SHOWING**
  - a. If you are using the camera, show your face; it helps others see your non-verbal cues.
  - b. You may be at home, but meeting in pajamas or shirtless is not appropriate so dress suitably. Comb your hair, clean your teeth, fix your clothes, etc. before your meeting time to show self-respect and respect for others.
- 6) **Be READY TO LEARN AND PAY ATTENTION**
  - a. Catch up on other emails or other work later.
  - b. If you are Zooming, silence your phone and put it away.
  - c. If you are in a room with a TV – turn it off.
- 7) **USE YOUR MUTE BUTTON WHEN IN LOUD PLACES OR FOR DISTRACTIONS**
  - a. Pets barking, children crying, sneezing, coughing, etc. can happen unexpectedly. It’s best if you conference in a private space, but if you can’t find a quiet place, when noises arise **MUTE** your laptop.
- 8) **REMEMBER TO UNMUTE WHEN SPEAKING**
  - a. Follow your instructor’s directions about using the “**raise hand**” icon or chat function to be recognized and to speak, but make sure you have unmuted your device.
  - b. Do not speak when someone else is speaking.
- 9) **REMAIN FOCUSED AND PARTICIPATE IN THE MEETING**
  - a. Especially when the camera is on YOU, we can all see your actions. Engage in the meeting. Look at the camera. Listen to instruction. Answer questions when asked.
  - b. Do not use the Zoom meeting to meet with your peers or put on a “show” for them.
- 10) **PAUSE YOUR VIDEO IF MOVING OR DOING SOMETHING DISTRACTING**
  - a. Emergencies happen. If you need to leave the room or get up and move about, stop your video.

## Academic Honesty

Academic honesty in the advancement of knowledge requires that all students and instructors respect the integrity of one another’s work and recognize the important of acknowledging and safeguarding intellectual property.

There are many different forms of academic dishonesty. The following kinds of honesty violations and their definitions are not meant to be exhaustive. Rather, they are intended to serve as examples of unacceptable academic conduct.

- Plagiarism is taking and presenting as one's own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to "cite a source" correctly, you must ask for help.
- Cheating is defined as fraud, deceit, or dishonesty in an academic assignment, or using or attempting to use materials, or assisting others in using materials that are prohibited or inappropriate in the context of the academic assignment in question.

Anyone caught cheating or plagiarizing will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the [General Catalog](#) for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to, the following: (a) plagiarism; (b) copying or attempting to copy from others during an examination or on an assignment; (c) communicating test information with another person during an examination; (d) allowing others to do an assignment or portion of an assignment; (e) using a commercial term paper service.

### **How do I show academic honesty and integrity in an online "classroom"?**

- **KEEP YOUR PASSWORDS CONFIDENTIAL.**
  - You have a unique password to access online software like Canvas. Never allow someone else to log-in to your account.
- **COMPLETE YOUR OWN COURSEWORK.**
  - When you register for an online class and log-in to Canvas, you do so with the understanding that you will produce your own work, take your own exams, and will do so without the assistance of others (unless directed by the instructor).

### **Examples of Academic Dishonesty that can occur in an online environment:**

- Copying from others on a quiz, test, examination, or assignment;
- Allowing someone else to copy your answers on a quiz, test, exam, or assignment;
- Having someone else take an exam or quiz for you;
- Conferring with others during a test or quiz (if the instructor didn't explicitly say it was a group project, then he/she expects you to do the work without conferring with others);
- Buying or using a term paper or research paper from an internet source or other company or taking any work of another, even with permission, and presenting the work as your own;
- Excessive revising or editing by others that substantially alters your final work;
- Sharing information that allows other students an advantage on an exam (such as telling a peer what to expect on a make-up exam or prepping a student for a test in another section of the same class);
- Taking and using the words, work, or ideas of others and presenting any of these as your own work is plagiarism. This applies to all work generated by another, whether it be oral, written, or artistic work. Plagiarism may either be deliberate or unintentional.





## 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	Week Start Date	Lecture Topic		Laboratory Topic
1	8/15	Intro A&P II Endocrine System Part A	Ch17	Endocrinology Lab
2	8/22	Endocrine System Part B	Ch17	Endocrinology Lab <b>Choose Mini-Presentation Topic 8/28</b>
3	8/29	Circulatory System: Blood <b>Exam 1: Intro &amp; Endocrine</b>	Ch 18	Hematology Lab <b>Exam 1: Intro &amp; Endocrine Practical</b>
4	9/5	Circulatory Syst: Blood Vessels Circulatory System: Heart	Ch 20 Ch 19	Intro to Echocardiography Lab <b>Endo/Blood -Pres due 9/11</b>
5	9/12	Respiratory System – Part A <b>Exam 2: Circulatory System</b>	Ch 22	Cardiovascular Function during Exercise Lab <b>Exam 2: Circulatory Practical</b>
6	9/19	Respiratory System - Part B Lymphatic & Defenses- Part A	Ch 22 Ch 21	Cardio- respiratory Physiology Lab
7	9/26	Lymphatic & Defenses- Part B <b>Exam 3: Respiratory System</b>	Ch 21	<b>Exam 3: Respiratory Practical</b>
8	10/3	Digestive System- Part A Digestive System- Part B	Ch 25	Intestinal Glucose Transport Lab <b>Cardo/Respir/Immune- Pres due 10/9</b>
9	10/10	Digestive System- Part C <b>Exam 4: Lymphatic System &amp; Defenses</b>	Ch 25	Homeostatic Control Lab <b>Exam 4: Lymphatic/Defense Practical</b>
10	10/17	Cellular Respiration Urinary System	Ch 26 Ch 23	Thermal Homeostasis Lab
11	10/24	Fluid, Electrolyte & Acid-Base Balance <b>Exam 5: Digestive System &amp; Cellular Respiration</b>	Ch 24	<b>Exam 5: Digestive System&amp; Cellular Respiration Practical</b>
12	10/31	Reproductive Systems- Part A Reproductive Systems- Part B	Ch 27/28	Renal Physiology Lab <b>Digestive/Urinary – Pres due 11/6</b>
13	11/7	Pregnancy & Development <b>Exam 6: Urinary System &amp; Water, Electrolyte &amp; Acid-Base Balance</b>	Ch 29	Meiosis Lab <b>Exam 6: Urinary System &amp; Water, Electrolyte &amp; Acid-Base Balance Practical</b>
14	11/14	<b>Exam 7: Reproductive Systems, Pregnancy &amp; Development</b>		<b>Exam 7: Reproductive Systems, Pregnancy &amp; Development Practical</b> <b>Repro/Birth Defects – Pres due Sunday 11/27* before return from Break</b>
<b>No Classes/Thanksgiving Break</b>				
15	11/28	Genetics & Heredity	Ch 4	
16	12/5	<b>Exam 8 (FINAL): Genetics &amp; Heredity</b>		<b>Exam 8: Cumulative Practical</b>

\*\*\*Tentative, subject to change without prior notice\*\*\*