

Basic Course Information

Semester:	Winter 2026	Instructor Name:	Dr. Patrick S. Pauley
Course Title & #:	Biology 90	Email:	Patrick.pauley@imperial.edu
CRN #:	15111	Webpage (optional):	N/A
Classroom:	Online (CANVAS)	Office #:	Online (Email)
Class Dates:	January 5, 2026 – February 4, 2026	Office Hours:	N/A
Class Days:	N/A (Online)	Office Phone #:	(760) 355 - 6363
Class Times:	N/A (Online)	Emergency Contact:	
Units:	3	Class Format:	Asynchronous Online

Course Description

Introductory study of the structure and function of the human organism. Class is structured for health occupation students. It is not acceptable for pre-medical, pre-dental, pre-chiropractic, pre-physical therapy or registered nursing students, and it is not open to students who have completed BIOL 200, BIOL 202, BIOL 204, or BIOL 206 with a grade of "C" or better. (Nontransferable, AA/AS degree only)

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

None

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. Explain how the major organ systems function. (ILO2, ILO5)
2. Apply his/her knowledge of organ system function to solve problems based on materials and situations not covered directly in class. (ILO1, ILO2, ILO5)
3. Keep up-to-date with the materials that are covered in class. (ILO3, ILO4)

Course Objectives

Upon satisfactory completion of the course, students with a grade of "C" or better will be able to:

1. Identify the basic organization of the human body from very simple to more complex levels.
2. Describe the basic structure and function of cells, tissues, and membranes.
3. Describe the basic organization, structure and function of each of the body's eleven organ systems.
4. Define the concept of homeostasis and describe some examples of homeostatic mechanisms in the body.
5. Describe the components of nutrition and what constitutes a healthy diet.
6. Describe the basics of human reproduction, development, and heredity.
7. Describe some of the health issues and diseases related to each of the body's organ systems.
8. Discuss changes within the human organism due to the aging process.



Textbooks & Other Resources or Links

Great news: your textbook for this class is available for **free** online!

J. G. Betts et al. Anatomy and Physiology 2e OpenStax, ISBN 978193816813

You have several options to obtain this book:

- [View Online](#)
- [Order a Print Copy](#)

You can use whichever formats you want. Web view is recommended -- the responsive design works seamlessly on any device.

Course Requirements and Instructional Methods

Exams:

There will be five (5) exams covering chapters assigned. The power points have already been uploaded.

Assignments:

I also will be doing weekly discussions. I do expect you to participate in these discussion boards. Discussions are an important component of many online classes. They replicate in-class (face-to-face) discussions, so they can be fertile ground for exploratory learning. They can also be fertile ground for self-assessment. When students are directed to consciously compare their ideas or their participation with other participants in the class, they may be able to adjust their participation (both quantity and quality) to meet the bar set by other students. A total of five (5) discussions will take place online over the course of the semester.

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.

Course Grading Based on Course Objectives

Class grading will be based on points accumulated in the following ways.

- Five (5) Exams Covering Chapters Assigned – 100 points each
- Weekly Class Participation (5 weeks) – 25 points each

* Exams may include true/false, multiple choice and short answer questions. Missed quizzes and exams must be cleared with the professor to be made-up. Asking to make-up missed quizzes or exams is your responsibility and needs to be for a reasonable excuse. You have all day from 12:00AM to 11:59PM to take Exams/Quizzes. This is 24 hours so plan accordingly.

Grading: A = 100 – 90% B = 89 – 80% C = 79 – 70% D = 69 – 60% F = < 59%

Academic Honesty (Artificial Intelligence -AI)

IVC values critical thinking and communication skills and considers academic integrity essential to learning. Using AI tools as a replacement for your own thinking, writing, or quantitative reasoning goes against both our mission and academic honesty policy and will be considered academic dishonesty, or plagiarism unless you have been instructed to do so by your instructor. In case of any uncertainty regarding the ethical use of AI tools, students are encouraged to reach out to their instructors for clarification.

Accessibility Statement

Imperial Valley College is committed to providing an accessible learning experience for all students, regardless of course modality. Every effort has been made to ensure that this course complies with all state and federal accessibility regulations, including Section 508 of the Rehabilitation Act, the Americans with Disabilities Act (ADA), and Title 5 of the



California Code of Regulations. However, if you encounter any content that is not accessible, please contact your instructor or the area dean for assistance. If you have specific accommodations through DSPS, contact them for additional assistance.

We are here to support you and ensure that you have equal access to all course materials.

Course Policies

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
- Documented student interaction with class postings, such as weekly discussions.
- 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.

What is online 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 (!!!!)].

Other Course Information

None

Financial Aid

Your Grades Matter! In order to continue to receive financial aid, you must meet the Satisfactory Academic Progress (SAP) requirement. Making SAP means that you are maintaining a 2.0 GPA, you have successfully completed 67% of your coursework, and you will graduate on time. If you do not maintain SAP, you may lose your financial aid. If you have questions, please contact financial aid at finaid@imperial.edu.

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

This schedule will be reviewed to include dates for the tests, assignments, and due dates. As the human experience is impacting the environment in positive and negative manners, and as the fifth IVC institutional learning outcome is global awareness this course will include human world events as part of the discussion. You will be expected to be aware of current



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world events and able to engage in discussion relevant to this fact. Amendments will be communicated in class and/or in canvas.

Date or Week	Activity, Assignment, and/or Topic	Pages/ Due Dates/Tests
Week 1 January 5 - 9	Module 0: Orientation Module 1 (Week 1): Unit 1 – Levels of Organization Chapter 1 – An Introduction to the Human Body, Chapter 2 – The Chemical Level of Organization, Chapter 3 – The Cellular Level of Organization & Chapter 4 – The Tissue Level of Organization	Discussion: About You – January 8 Exam 1: Unit 1 – January 9 Self-Check Quiz – January 8 Student Self-Evaluation – January 8
Week 2 January 12 - 16	Module 2 (Week 2): Unit 2 – Support and Movement Chapter 5 – The Integumentary System, Chapter 6 – Bone Tissue and the Skeletal System, Chapter 7 – Axial Skeleton, Chapter 8 – The Appendicular Skeleton, Chapter 9 – Joints, Chapter 10 – Muscle Tissue & Chapter 11 – The Muscular System	Discussion: Health Risk – January 15 Exam 2: Unit 2 – January 16 Student Self-Evaluation – January 15
Week 3 January 20 - 23	Module 3 (Week 3): Unit 3 – Regulation, Integration, and Control Chapter 12 – The Nervous System and Nervous Tissue, Chapter 13 – Anatomy of the Nervous System, Chapter 14 – The Somatic Nervous System, Chapter 15 – The Autonomic Nervous System, Chapter 16 – The Neurological Exam & Chapter 17 – The Endocrine System	Discussion: Human Health Risk – January 22 Exam 3: Unit 3 – January 23 Student Self-Evaluation – January 22
Week 4 January 26 - 30	Module 4 (Week 4): Unit 4 – Fluids and Transport Chapter 18 – The Cardiovascular System: Blood, Chapter 19 – The Cardiovascular System: The Heart, Chapter 20 – The Cardiovascular System: Blood Vessels and Circulation & Chapter 21 – The Lymphatic and Immune System	Discussion: Mental Health – January 29 Exam 4: Unit 4 – January 30 Student Self-Evaluation – January 39
Week 5 February 2 – February 4	Module 5 (Week 5): Unit 5 – Energy, Maintenance, and Environmental Exchange Chapter 22 – The Respiratory System, Chapter 23 – The Digestive System, Chapter 24 – Metabolism and Nutrition, Chapter 25 – The Urinary System & Chapter 26 – Fluid, Electrolyte, and Acid-Base Balance	Discussion: Vector Control – February 4 Exam 5: Unit 5 – February 4 Student Self-Evaluation – February 4

Subject to change without prior notice