



School of Natural Sciences and Mathematics

BI 151L (151L-04-1): Human Anatomy and Physiology Laboratory I

Henry Hall, Lab 4

Friday 2:30pm - 5:20pm

Credits: 1 Term: Fall 2026

Instructor Information



Instructor: Dr. Sandro Jube, MSc, PhD

Email: sandro.jube@chaminade.edu

Office hours: By appointment only

Communication

If you have a personal question, my preferred mode of communication is email. Please enter the course name in the subject of all email communication. Emails will be answered within 24 hours.

Course Description & Materials

Catalog Course Description

One three-hour laboratory per week will include examination of models and slides, dissection, and physiological exercises. Required course for nursing majors. Non-nursing students (e.g. pre-health professions students) may take this course subject to availability of seats in a separate course section than nursing majors.

Co-requisites: BI 151L, NUR majors.

Course Overview

Human Anatomy and Physiology Laboratory (BI 151L) will study the human body, its component systems, their gross anatomy and histology, and their workings and interactions for the nursing program. Topics covered will include basic cellular biology, tissue types and organization as well as the control systems, maintenance, and continuity of the human body. The course consists of one three-hour lab per week; the lab is intended to supplement the lecture and offer the opportunity to observe the structures and functions discussed in lecture.

Required Materials

- Michael G Wood, *Laboratory Manual for Anatomy & Physiology featuring Martini Art, Pig Version* 6e ISBN 13: 9780134161785
- Computer with internet access
- Regular access to Canvas
- Covered shoes
- Lab coat (can be purchased in the Campus Bookstore)

Canvas (<https://chaminade.instructure.com>)

All quizzes and exams will be taken on Canvas. Please review the course calendar for quiz, assignments and exams due dates.

Learning Outcomes

Program Learning Outcomes (PLOs)

Upon completion of a B.S. degree program in Biology the student will be able to:

1. Utilize the scientific method in the design and testing of hypotheses.
2. Statistically evaluate, validate and interpret scientific data and communicate the results of such analyses effectively both orally and in writing.
3. Acquire and comprehend information from published scientific literature and employ computational resources in the resolution of biological problems.
4. Recognize the chemical and physical principles that underlie all life forms, as well as the biological organization at the molecular, cellular, tissue, organ, organism, and system levels that emerge from these principles.
5. Define the components and processes of genetic and epigenetic information. transmission, and their determinant effects on the adaptive and evolutionary processes that they drive.
6. Evaluate the etiology of major human disease burden in terms of, pathophysiological mechanisms, epidemiology within populations and possible therapeutic approaches.
7. Embark upon career pathways towards the major post-graduate fields of research, education, and the health professions of their choice.

Course Learning Outcomes (CLOs)

Upon completion of BI151L, the student will be able to:

1. Demonstrate safe procedures within a laboratory.
2. Identify basic components of a light microscope and perform basic microscopy.
3. Understand the scientific method and how to apply it to the study of human anatomy and physiology.

4. Describe all types of cellular transport including diffusion, facilitated diffusion, active transport, exocytosis, endocytosis, phagocytosis, and pinocytosis.
5. Define and correctly use anatomical terminology to explain the physiology of the major organ systems.
6. Differentiate between types of epithelial tissue, types of connective tissue, and describe their function.
7. Identify all major bones within the axial and appendicular skeleton and understand the components of bone tissue and function of bone.
8. Identify all major muscles/muscle groups within the axial and appendicular divisions and understand their function as well as nervous innervation.
1. Describe disease states, both genetic and acquired etiologies, and their current medical treatments.

Marianist Values

This class represents one component of your education at Chaminade University of Honolulu. An education in the Marianist Tradition is marked by five principles and you should take every opportunity possible to reflect upon the role of these characteristics in your education and development:

1. Education for formation in faith.
2. Provide an integral, quality education.
3. Educate in family spirit.
4. Educate for service, justice and peace, and integrity of creation.
5. Educate for adaptation and change.

Native Hawaiian Values

Education is an integral value in both Marianist and Native Hawaiian culture. Both recognize the transformative effect of a well-rounded, value-centered education on society, particularly in seeking justice for the marginalized, the forgotten, and the oppressed, always with an eye toward God (Ke Akua). This is reflected in the 'Olelo No'eau (Hawaiian proverbs) and Marianist core beliefs:

1. Educate for Formation in Faith (Mana) E ola au i ke akua ('Olelo No'eau 364) May I live by God.
2. Provide an Integral, Quality Education (Na'auao) Lawe i ka ma'alea a kū'ono'ono ('Olelo No'eau 1957) Acquire skill and make it deep.
3. Educate in Family Spirit ('Ohana) 'Ike aku, 'ike mai, kōkua aku kōkua mai; pela iho la ka nohana 'ohana ('Olelo No'eau 1200) Recognize others, be recognized, help others, be helped; such is a family relationship.
4. Educate for Service, Justice and Peace (Aloha) Ka lapa kū o ka no'eau ('Olelo No'eau 1430) Education is the standing torch of wisdom.

5. Educate for Adaptation and Change (Aina) ‘A’ohe pau ka ‘ike i ka hālau ho’okahi (‘Ōlelo No’eau 203) All knowledge is not taught in the same school

Course Activities

Course Schedule available in Canvas.

Credit Hour Policy

The unit of semester credit is defined as university-level credit that is awarded for the completion of coursework. One credit hour reflects the amount of work represented in the intended learning outcomes and verified by evidence of student achievement for those learning outcomes. Each credit hour earned at Chaminade University should result in a minimum of 45 hours of engagement, regardless of varying credits, duration, modality, or degree level. This equates to one hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks for one semester. Direct instructor engagement and out-of-class work result in total student engagement time of 45 hours for one credit. The number of engagement hours may be higher, as needed to meet specific learning outcomes.

How This Course Meets the Credit Hour Policy: This course results in a total of at least 3 hours per week of engagement inside and outside the classroom as above described for 15 weeks for a total of no less than 45 hours over the course of the semester.

Course Policies

Attendance

The following attendance policy is from the 2019-2020 Academic Catalog (p. 54-55):

Students are expected to attend regularly all courses for which they are registered. Students should notify their instructors when illness or other extenuating circumstances prevents them from attending class and make arrangements to complete missed assignments. Notification may be done by emailing the instructor’s Chaminade email address, calling the instructor’s campus extension, or by leaving a message with the instructor’s division office. It is the instructor’s prerogative to modify deadlines of course requirements accordingly. Any student who stops attending a course without officially withdrawing may receive a failing grade.

Unexcused absences equivalent to more than a week of classes may lead to a grade reduction for the course. Any unexcused absence of two consecutive weeks or more may result in being

withdrawn from the course by the instructor, although the instructor is not required to withdraw students in that scenario. Repeated absences put students at risk of failing grades.

Students with disabilities who have obtained accommodations from the Chaminade University of Honolulu Tutor Coordinator may be considered for an exception when the accommodation does not materially alter the attainment of the learning outcomes.

Federal regulations require continued attendance for continuing payment of financial aid. When illness or personal reasons necessitate continued absence, the student should communicate first with the instructor to review the options. Anyone who stops attending a course without official withdrawal may receive a failing grade or be withdrawn by the instructor at the instructor's discretion.

Missed Exams

The instructor must excuse the student's absences from scheduled exams. If, for some legitimate reason, students should miss a scheduled exam, a makeup exam may be arranged. However, makeup exams will be given **ONLY** if one of the following criteria is met:

- illness (more than a minor cold) with **doctor's note**;
- death of a close relative or friend;
- other serious personal/interpersonal problems.

If this happens, students **MUST** inform the instructor about the situation **BEFORE** the exam, **NOT** after.

Late Work

No late work will be accepted.

Extra Credit

No extra credit opportunities in this course.

Changes to the Syllabus

While the provisions of this syllabus are as accurate and complete as possible, your instructor reserves the right to change any provision herein at any time. Every effort will be made to keep you advised of such changes, and information about such changes will be available from your instructor.

Grades of Incomplete

Students and instructors may negotiate an incomplete grade when there are specific justifying circumstances. When submitting a grade, the "I" will be accompanied by the alternative grade that will automatically be assigned after 90 days. These include IB, IC, ID, and IF. If only an "I" is submitted the

default grade is F. The completion of the work, evaluation, and reporting of the final grade is due within 90 days after the end of the semester or term. This limit may not be extended.

Grading

Total points possible: 375 points

- **In-lab Online Quizzes (75 points)**
 - 15 In-Lab Quizzes taken on Canvas (5 points each quiz).
 - The quizzes are open-book and taken online (on Canvas) by the end of every lab. Students will have a 1 time chance to finish each quiz within 20 minutes.
- **Pre-Lab Assignments (75 points)**
 - 15 Pre-Lab Assignments (5 points each assignment).
 - The assignments are submitted through Canvas and they are due by 2:30pm, before each lab meeting.
- **In-Lab Activities (75 points)**
 - 15 In-Lab Activities (5 points each activity).
 - The activities are done during the lab and must be completed by the end of the lab meeting.
- **Lab Exams (150 points)**
 - 3 practical lab exams (50 points each)
 - All exams are **closed-book** and **proctored** exams taken during the lab meetings. The practical lab exams include only anatomy (structure name) questions. There are no physiology (function) questions in the lab exams.

Final Grades

Final grades are submitted to [Self-Service](#):

A = 90% and above (338 points or more)

B = 80-89% (300 - 337 points)

C = 70-79% (263 - 299 points)

D = 60-69% (225 - 262 points)

F = 59% and below (224 points or less)

Important Information

Academic Honesty

Academic honesty is an essential aspect of all learning, scholarship, and research. It is one of the values regarded most highly by academic communities throughout the world. Violations of the principle of academic honesty are extremely serious and will not be tolerated.

Students are responsible for promoting academic honesty at Chaminade by not participating in any act of dishonesty and by reporting any incidence of academic dishonesty to an instructor or

to a University official. Academic dishonesty may include theft of records or examinations, alteration of grades, and plagiarism, in addition to more obvious dishonesty.

Questions of academic dishonesty in a particular class are first reviewed by the instructor, who must make a report with recommendations to the Dean of the Academic Division. Punishment for academic dishonesty will be determined by the instructor and the Dean of Academic Division and may include an “F” grade for the work in question, an “F” grade for the course, suspension, or dismissal from the University.

For the most up to date information, please refer to the [Academic Honesty Policy](#) on the Chaminade University Catalog website.

Title IX and Nondiscrimination Statement

Chaminade University of Honolulu is committed to providing a learning, working and living environment that promotes the dignity of all people, inclusivity and mutual respect and is free of all forms of sex discrimination and gender-based violence, including sexual assault, sexual harassment, gender-based harassment, domestic violence, dating violence, and stalking. As a member of the University faculty, I am required to immediately report any incident of sex discrimination or gender-based violence to the campus Title IX Coordinator.

Nondiscrimination Policy & Notice of Nondiscrimination

Chaminade University of Honolulu does not discriminate on the basis of sex and prohibits sex discrimination in any education program or activity that it operates, as required by Title IX and its regulations, including in admission and employment. Inquiries about Title IX may be referred to the University’s Title IX Coordinator, the U.S. Department of Education’s Office for Civil Rights, or both and contact information may be found at the [Chaminade University Title IX Office Contact Information and Confidential Resources website](#). On-campus Confidential Resources may also be found here at [CAMPUS CONFIDENTIAL RESOURCES](#).

The University’s Nondiscrimination Policy and Grievance Procedures can be located on the University webpage at: <https://chaminade.edu/compliance/title-ix-nondiscrimination-policies-procedures/>.

To report information about conduct that may constitute sex discrimination or make a complaint of sex discrimination under Title IX, please refer to the [Campus Incident Report form](#). Chaminade University of Honolulu prohibits sex discrimination in any education program or activity that it operates. The NOTICE of NONDISCRIMINATION can be found here: [Notice of Nondiscrimination](#).

CUH Alert Emergency Notification

To get the latest emergency communication from Chaminade University, students’ cell numbers will be connected to Chaminade’s emergency notification text system. When you log in to the Chaminade portal, you will be asked to provide some emergency contact information. If you provide a cellphone number, you will receive a text from our emergency notification system

asking you to confirm your number. You must respond to that message to complete your registration and get emergency notifications on your phone.

Assessment for Student Work

With the goal of continuing to improve the quality of educational services offered to students, Chaminade University conducts assessments of student achievement of course, program, and institutional learning outcomes. Student work is used anonymously as the basis of these assessments, and the work you do in this course may be used in these assessment efforts.

Student with Disabilities Statement

Chaminade University of Honolulu offers accommodations for all actively enrolled students with disabilities in compliance with Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act (ADA) of 1990, and the ADA Amendments Act (2008).

Students are responsible for contacting Kokua Ike: Center for Student Learning to schedule an appointment. Verification of their disability will be requested through appropriate documentation and once received it will take up to approximately 2–3 weeks to review them. Appropriate paperwork will be completed by the student before notification will be sent out to their instructors. Accommodation paperwork will not be automatically sent out to instructors each semester, as the student is responsible to notify Kokua Ike via email at ada@chaminade.edu each semester if changes or notifications are needed.

Kōkua 'Ike: Tutoring & Learning Services

Chaminade is proud to offer free, one-on-one tutoring and writing assistance to all students. Tutoring and writing help is available on campus at Kōkua 'Ike: Center for Student Learning in a variety of subjects (including, but are not limited to biology, chemistry, math, nursing, English, etc.) from trained Peer and Professional Tutors. Please check [Kōkua 'Ike's](#) website for the latest times, list of drop-in hours, and information on scheduling an appointment. Free online tutoring is also available via TutorMe. Tutor Me can be accessed 24/7 from your Canvas account. Simply click on Account > TutorMe. For more information, please contact Kōkua 'Ike at tutoring@chaminade.edu or 808-739-8305.