



School of Natural Sciences and Mathematics

BI 151: Human Anatomy and Physiology I

Behavioral Science Building 101

Mon/Wed/Fri 11:30am - 12:20pm

Credits: 3 Section: 3 Term: Fall 2024

Instructor Information



Instructor: Marissa Fukunaga, EdD, ATC

Email: marissa.fukunaga@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 if sent Monday through Friday. Emails sent after 5 PM on Friday may not be answered until the following Monday. If you do not receive a response within 24 hours on a weekday, please resend your email.

Course Description & Materials

Catalog Course Description

This course is an introduction to the human anatomy and physiological systems. Necessary life functions and survival needs will be examined, followed by an orientation of the language of anatomy. Thorough analyses of intracellular function, tissue types, the integumentary system, skeletal tissue and the human skeleton, joints, muscle tissue and the muscular system, the fundamentals of nervous tissue, the nervous system, and the endocrine system will follow. 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.

Required Materials

- Computer/laptop/tablet (use of mobile phones not advised)
- Internet access
- CUH Google Drive access
- Access to the [OER Textbook](#)

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

All quizzes and assignments will be submitted on Canvas. Please review the course calendar for quiz and assignment due dates.

Learning Outcomes

Program Learning Outcomes (PLOs)

Upon completion, the student will be able to:

1. Utilize the nursing process to advocate for safe, holistic, patient centered care across the lifespan, incorporating the Marianist value of service, justice, and peace
2. Apply leadership and communication skills to ensure quality, collaborative and continuous patient care
3. Integrate credible research with clinical expertise and patient preferences for optimal care across the lifespan
4. Incorporate informatics and healthcare technologies into the practice of professional nursing.
5. Contribute to the safety and quality improvement of the healthcare environment

Course Learning Outcomes (CLOs)

Upon completion of BI151, the student will be able to:

1. Use appropriate terminology related to human anatomy in selected organ systems.
2. Use appropriate terminology related to human physiology in selected organ systems.
3. Identify selected anatomical structures within the human body in selected organ systems.
4. Explain selected physiological functions in selected organ systems.
5. Explain the principle of homeostasis as it relates to selected human physiological processes.
6. Explain how feedback loops are used to control selected human physiological systems.
7. Explain selected anatomical and physiological interrelationships in selected organ systems.

8. Describe and explain laboratory procedures used to evaluate selected physiological functions within selected organ systems.
9. Explain selected basic chemical processes occurring at the cellular level.
10. Describe selected processes of human cellular metabolism.
11. Create graphs depicting selected anatomical or physiological data.
12. Interpret graphs depicting selected anatomical or physiological data

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 ('Olelo No'eau 203) All knowledge is not taught in the same school

Course Activities

Access Course Schedule here: [Fukunaga_BI 151 Schedule_Fall 2024](#)

Also available in Canvas

Credit Hour Policy

This is a three-credit hour course requiring 135 clock hours of student engagement, per the official CUH Credit Hour Policy. Over the 15 weeks of this course, students will spend 37.5 hours in class, 32 hours reviewing the 16 Chapters, 16 hours studying for the Chapter quizzes, and 9.5 hours studying for and taking the final exam. There will be an additional 40 hours of work required beyond what is listed here (course readings, research articles, finishing class assignments, etc.), averaging 2.5 hours each week.

Course Policies

Attendance

Attendance is highly advised. There are no make-ups for in class assignments and quizzes. Lectures may not be posted on Canvas and therefore coming to class is imperative. There are also multiple group assignments during class that will result in deducted points if absent. Excused absences may be accepted if a physician's note is obtained stating the exact dates of absence due to illness or injury.

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

If an Incomplete grade is desired at the end of the course, communication beforehand and proper documentation must be submitted.

Grading

Total points possible: 350 points

Quizzes (200 points)

- Introduction (20 points)
- Cells/Chemistry/Tissues (30 points)
- Integumentary (10 points)
- Skeletal (20 points)
- Muscular (20 points)
- Nervous/Special Senses (20 points)
- Endocrine (20 points)
- Cumulative Final (60 points)

Study topics (100 points)

- 10 study topics x 10 points each

Cheat sheets (10 points)

- 3 cheat sheets x 5 points each (only 2 count for final grading)

Research Article Summary & Graph (40 points)

- 4 research articles x 10 points each

Final Grades

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

- A = 90% and above (326.7 points or more)
- B = 80-89% (290.2 - 326.6 points)
- C = 70-79% (253.7 - 290.1 points)
- D = 60-69% (202.6 - 253.6 points)
- F = 59% and below (202.5 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.

Fall 2024

BI 151 Course Content/Schedule

Note: Schedule and content subject to change

Assignments are due prior to the start of the next class period unless otherwise indicated (will announce in class)

Week 1	Monday 8/19	Wednesday 8/21	Friday 8/23
Topic:	Course Orientation	Introduction Lecture	Introduction Study Topics
Chapter:	N/A	1	1
Assignment:	N/A	Read Chapter 1	Introduction Study Topics
Week 2	Monday 8/26	Wednesday 8/28	Friday 8/30
Subject:	Introduction Quiz	Chemistry Lecture	Chemistry Study Topics
Chapter:	1	2	2
Assignment:	N/A	Read Chapter 2	Chemistry Study Topics
Week 3	Monday 9/2	Wednesday 9/4	Friday 9/6
Subject:	Holiday (Labor Day)	Cells Lecture	Cells Study Topics
Chapter:		3	3
Assignment:		Read Chapter 3	Cells Study Topics
Week 4	Monday 9/9	Wednesday 9/11	Friday 9/13
Subject:	Tissue Lecture	Tissue Study Topics	Cells/Chemistry/Tissue Quiz
Chapter:	4	4	2, 3, & 4
Assignment:	Read Chapter 4	Tissue Study Topics	N/A
Week 5	Monday 9/16	Wednesday 9/18	Friday 9/20
Subject:	Skin/Integumentary System Lecture	Integumentary System Research Article Think-Pair-Share	Integumentary System Study Topics
Chapter:	5	N/A	5
Assignment:	Read Chapter 5	Summary & Graph	Integumentary System Study Topics
Week 6	Monday 9/23	Wednesday 9/25	Friday 9/27
Subject:	Integumentary System Quiz	Osseous Tissue Lecture	Axial Skeleton Lecture

Chapter:	5	6	7
Assignment:	N/A	Read Chapter 6	Read Chapter 7
Week 7	Monday 9/30	Wednesday 10/2	Friday 10/4
Subject:	Appendicular Skeleton and Joints Lectures	Skeletal System Research Article Think-Pair-Share	Skeletal System Study Topics
Chapter:	8 & 9	N/A	6-9
Assignment:	Read Chapter 8 and Chapter 9	Summary & Graph	N/A
Week 8	Monday 10/7	Wednesday 10/9	Friday 10/11
Subject:	Skeletal System Cheat Sheet Day	Skeletal System Quiz	Muscle Tissue Lecture
Chapter:	6-9	6-9	10
Assignment:	Due by end of class period: Skeletal System Study Topics Skeletal System Cheat Sheet	N/A	Read Chapter 10
Week 9	Monday 10/14	Wednesday 10/16	Friday 10/18
Subject:	Holiday (Indigenous Peoples' Day)	Skeletal Muscle Anatomy Lecture	Muscular System Research Article Think-Pair-Share
Chapter:		11	N/A
Assignment:		Read Chapter 11	Summary & Graph
Week 10	Monday 10/21	Wednesday 10/23	Friday 10/25
Subject:	Muscular System Study Topics	Muscular System Cheat Sheet Day	Muscular System Quiz
Chapter:	10-11	10-11	10-11
Assignment:	N/A	Due by end of class period: Muscular System Study Topics Muscular System Cheat Sheet	N/A
Week 11	Monday 10/28	Wednesday 10/30	Friday 11/1
Subject:	Nervous Tissue Lecture	General Senses and Spinal Cord Lecture	Brain Lecture
Chapter:	12	13	14
Assignment:	Read Chapter 12	Read Chapter 13	Read Chapter 14
Week 12	Monday 11/4	Wednesday 11/6	Friday 11/8
Subject:	Nervous System Study Topics	Special Senses Lecture	Special Senses Study Topics

Chapter:	12-14	15	15
Assignment:	Nervous System Study Topics	Read Chapter 15	Special Senses Study Topics
Week 13	Monday 11/11	Wednesday 11/13	Friday 11/15
Subject:	Holiday (Veterans' Day)	Nervous System Research Article Think-Pair-Share	Nervous System Cheat Sheet Day
Chapter:		N/A	12-15
Assignment:		Summary & Graph	Nervous System Cheat Sheet
Week 14	Monday 11/18	Wednesday 11/20	Friday 11/22
Subject:	Nervous System Quiz	Endocrine System Lecture	Endocrine System Study Topics
Chapter:	12-15	17	17
Assignment:	N/A	Read Chapter 17	Endocrine System Study Topics
Week 15	Monday 11/25	Wednesday 11/27	Friday 11/29
Subject:	Endocrine System Quiz	Final Quiz/Exam Review	Thanksgiving Break
Chapter:	17	1-15, & 17	
Assignment:	N/A	N/A	
Week 16			
Subject:			Final Quiz/Exam
Chapter:			1-15, & 17
Assignment:			N/A

- The class schedule, assignments and assignment due dates are subject to change throughout the semester.
- Check for due date updates on Canvas- Assignment and Announcement page.
- ALL assignments/quizzes must be submitted ON TIME in the Canvas Assignments. Late assignments and emailed assignments are not acceptable.
- Save assignments as PDF (when applicable) and upload in the Assignments page.
 - DO NOT SUBMIT: Pages doc., Google doc., HEIC doc., and Zip drive, otherwise "o" points.