



Human Anatomy and Physiology Biological Science BI152

Course Number: BI152

Course Title: Anatomy and Physiology II

Department Name: Biology

College/School/Division Name: School of Natural Sciences and Mathematics

Class Meeting Days: As scheduled

Class Meeting Hours: 2:30 - 5:20pm

Class Location: TBD

Instructor Name: Dr. Mindy McDermott

Email: mindy.mcdermott@chaminade.edu

Office Location: Wesselkamper 103

Office Hours: by appointment

Required Learning Materials

TopHat.com

INTERACTIVE TEXTBOOK:

Top Hat

We will be using **Top Hat** (www.tophat.com) to access the digital interactive textbook, that we will be using in this class. For instructions on how to create a Top Hat account and enroll in our Top Hat course, please refer to the invitation sent to your school email address or consult Top Hat's Getting Started Guide (<https://bit.ly/31TGMlw>).

If you already have a Top Hat account, go to <https://app.tophat.com/e/320948> to be taken directly to our course. If you are new to Top Hat, follow the link in the email invitation you received or...

- Go to <https://app.tophat.com/register/student>
- Click "Search by school" and input the name of our school
- Search for our course with the following Join Code: **320948**: Anatomy and Physiology I and II- Fall 2023
- Instructor: **Genevieve Griffiths**

Should you require assistance with Top Hat at any time please contact their Support Team directly by way of email (support@tophat.com), the in-app support button, or by calling 1-888-663-5491. Specific user information may be required by their technical support team when troubleshooting issues.

Supplemental Texts and Materials

www.masteringaandp.com

Rust, [A Guide to Anatomy and Physiology](#)

McMinn, [Color Atlas of Human Anatomy](#)

[Coloring Atlas for A&P](#)

[Netter's Anatomy Flashcards](#) or an anatomy and physiology app

Course Instructions and Credit Hour Policy

This is a three-credit hour course requiring 135 clock hours of student engagement, per the official CUH credit hour policy. Students enrolled in this course are anticipated to spend 37.5 hours in class, 10 hours studying for and taking each of 5 exams (50), and 20 hours studying for and taking the final exam. There will be an additional 27.5 hours of work required above what is listed here, to include but not limited to, course readings, classroom discussions, and homework/writing assignments.

Course Overview

Human Anatomy and Physiology II (BI 152) will study the human body, its component systems, their gross anatomy and histology, and their workings and interactions for the nursing program. Topics include the study of the autonomic nervous system, blood, cardiovascular system including lymphatic system, immune system, respiratory system, digestive system, urinary system, endocrine system, and male and female reproductive systems. Emphasis is placed on the integration of systems as they relate to normal health. Laboratory exercises will supplement the lecture material to provide first-hand experience with the structure and processes discussed in lecture.

Marianist and 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 'Ōlelo No'eau (Hawaiian proverbs) and Marianist core beliefs.

1. Educate for Formation in Faith (Mana) E ola au i ke akua ('Ōlelo 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 ('Ōlelo 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. ('Ōlelo 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 lama kū o ka no'eau ('Ōlelo 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.

Alignment of Natural Sciences Courses with Marianist & Native Hawaiian values of the University

The Natural Sciences Division provides an *integral, quality education*: sophisticated integrative course content taught by experienced, dedicated, and well-educated instructors.

- *We educate in family spirit* – every classroom is an *Ohana* and you can expect to be respected yet challenged in an environment that is supportive, inclusively by instructors who take the time to personally get to know and care for you.
- *We educate for service, justice and peace*, since many of the most pressing global issues (climate change, health inequity, poverty, justice) are those which science and technology investigate, establish ethical parameters for, and offer solutions to.
- *We educate for adaptation and change*. In science and technology, the only constant is change. Data, techniques, technologies, questions, interpretations and ethical landscapes are constantly evolving, and we teach students to thrive on this dynamic uncertainty.

The study of science and technology can be formative, exploring human creativity and potential in the development of technologies and scientific solutions, the opportunity to engage in the stewardship of the natural world, and the opportunity to promote social justice. We provide opportunities to engage with the problems that face Hawai'i and the Pacific region through the Natural Sciences curriculum, in particular, those centered around severe challenges in health, poverty, environmental resilience, and erosion of traditional culture. The Marianist Educational Values relate to Native Hawaiian ideas of *mana*, *na'auao*, *ohana*, *aloha* and *aina*. We intend for our Natural Sciences programs to be culturally-sustaining, rooted in our Hawaiian place, and centered on core values of *Maiau*, be neat, prepared, careful in all we do; *Makawalu*, demonstrate foresight and planning; *'Ai*, sustain mind and body; *Pa`a Na`au*, learn deeply.

Expected Course Learning Outcomes

1. Create graphs depicting selected anatomical or physiological data.
2. Describe the scientific method and apply it to the study of human anatomy and physiology.
3. Demonstrate practical knowledge of human gross and microscopic anatomy.
4. Define and correctly use anatomical terminology to explain the physiology of the major organ systems.
5. Identify structures in the body and analyze their relationship with other body structures.
6. Describe the processes involved with maintaining homeostasis and anticipate what may occur when homeostatic balance mechanisms are lost.
7. Describe disease states, both genetic and acquired etiologies, and their current medical treatments.

Biology Program Learning Outcomes (PLO)

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	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7
Create graphs depicting selected anatomical or physiological data.		X	X				X
Describe the scientific method and apply it to the study of human anatomy and physiology.	X					X	X
Demonstrate practical knowledge of human gross and microscopic anatomy.	X	X		X		X	X
Define and correctly use anatomical terminology to explain the physiology of the major organ systems.						X	
Identify structures in the body and analyze their relationship with other body structures.			X	X		X	X
Describe the processes involved with maintaining homeostasis and anticipate what may occur when homeostatic balance mechanisms are lost.			X	X	X	X	X
Describe disease states, both genetic and acquired etiologies, and their current medical treatments.		X	X	X	X	X	X

Strategies for Success

1. Read your chapters in TopHat before the lecture
2. Attend all lectures and study sessions
3. Actively engage in all activities. Don't divide up the work and copy
4. Devote a block of time each day to your A&P course
 - You should be spending 1-2 hours at home for every hour in the lecture
5. Set up a study schedule and stick to it
6. Do not procrastinate
7. Develop the skill of memorization, and practice it regularly
8. Approach the information in different ways and find ways that have special significance to you
 - The more ways you learn something, the more often you access it, and the more importance you assign it, the easier it becomes to remember.
9. Have your classmates help motivate you and form study groups
10. As soon as you experience difficulty with the course, seek assistance

Grading Policies

Grading Procedure

Grades will reflect an overall understanding of topics covered during the course. Attendance, completion of assigned readings, and attentiveness in the lecture will ensure satisfactory performance in the class. Demonstrating a thorough understanding of course material and intelligent engagement in class discussions constitutes high achievement in the course. We will have in-class work to do to facilitate class discussion, which may range from group activities, reviews of current literature, media, articles, and class discussions. Group activities may consist of brief oral reports or short written reports. For written coursework, you will be graded on your ability not only to answer the question, but also in how effectively you can defend your answer/position using your knowledge of the subject & applying what you learned using appropriate facts and examples.

GRADING

Exam 1 (Intro, Org. of Matter, Cells)	50 questions (1pt each)	50 points
Exam 2 (Tissues, Skin, Bone)	50 questions (1pt each)	50 points
Exam 3 (Axial/Append. Skeleton, Joints)	50 questions (1pt each)	50 points
Exam 4 (Muscle Tissue, Muscles, Sp. Nerves)	50 questions (1pt each)	50 points
Exam 5 (Brain/Cranial Nerves, Sensation, Reflexes)	50 questions (1pt each)	50 points
Writing assignment	2 pages	25 points
Reading Homework	TopHat	25 points
Final (Cumulative)	100 questions (1 point each)	100 points

GRADE = TOTAL / 400 pts

Grading Scale

Letter grades are given in all courses except those conducted on a credit/no credit basis. Grades are calculated from the student's daily work, class participation, tests, reports and examinations. They are interpreted as follows:

- A (90% & above) Outstanding scholarship and an unusual degree of intellectual initiative
- B (80–89%) Superior work done in a consistent and intellectual manner
- C (70–79%) Average grade indicating a competent grasp of subject matter
- D (60–69%) Inferior work of the lowest passing grade, not satisfactory for fulfillment of course
- F (59% & below) Failed to grasp the minimum subject matter; no credit given

Tutoring and Writing Services

Chaminade is proud to offer free, one-on-one tutoring and writing assistance to all students. Tutoring 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 (<https://chaminade.edu/advising/kokua-ike/>) for the latest times, list of drop-in hours, and information on scheduling an appointment. Free online tutoring is also available via Smarthinking, which can be accessed 24/7 from your Canvas account (click Account – Notifications – Smarthinking). For more information, please contact Kōkua `Ike at tutoring@chaminade.edu or 808-739-8305.

Course Policies

Late Work Policy

Assignments are expected on the due date. If you are unable to make the due date, a conversation must be had with me PRIOR to the due date for an extension. Unexcused late work will receive a reduced grade.

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.

Instructor and Student Communication

Questions for this course can be emailed to the instructor at [mindy.mcdermott@chaminade.edu]. Online, in-person, and phone conferences can be arranged. Response time will take place as soon as possible, usually within one day.

Cell phones, tablets, and laptops

Out of consideration for your classmates, please set your cell phone to silent mode during class. Students are encouraged to bring laptops or tablets to class as the instructor will assign online activities and readings that will require the use of a laptop or tablet. Laptops and tablets should not be misused, such as checking distracting websites. Use your best judgment and respect your classmates and instructor.

ADA Policy

Statement from the [New Student Handbook](#)

Pursuant to federal and state laws, including the Americans with Disabilities Act of 1990 as amended by the ADA

Amendments Act of 2008 and Section 504 of the Rehabilitation Act of 1973, all qualified students with disabilities are protected from discrimination on the basis of disability and are eligible for reasonable accommodations or modifications in the academic environment to enable them to equal access to academic programs, services, or activities. If a student would like to determine if they meet the criteria for accommodations, they should contact the Counseling Center in the Student Support Services Building, Room 101, by phone at (808) 735-4845 or email: counselingcenter@chaminade.edu for further information. Web: studentaffairs.chaminade.edu/counseling-center/counseling-services

Title IX Compliance

Chaminade University of Honolulu recognizes the inherent dignity of all individuals and promotes respect for all people. Sexual misconduct, physical and/or psychological abuse will NOT be tolerated at CUH. If you have been the victim of sexual misconduct, physical and/or psychological abuse, we encourage you to report this matter promptly. As a faculty member, I am interested in promoting a safe and healthy environment, and should I learn of any sexual misconduct, physical and/or psychological abuse, I must report the matter to the Title IX Coordinator. If you or someone you know has been harassed or assaulted, you can find the appropriate resources by visiting Campus Ministry, the Dean of Students Office, the Counseling Center, or the Office for Compliance and Personnel Services.

Attendance Policy

Students are expected to regularly attend 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, 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 ADA 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.

Academic Conduct Policy

Any community must have a set of rules and standards of conduct by which it operates. At Chaminade, these standards are outlined to reflect both the Catholic, Marianist values of the institution and to honor and respect students as responsible adults. All alleged violations of the community standards are handled through an established student conduct process, outlined in the Student Handbook, and operated within the guidelines set to honor both students' rights and campus values. Students should conduct themselves in a manner that reflects the ideals of the University. This includes knowing and respecting the intent of rules, regulations, and/or policies presented in the Student Handbook, and realizing that students are subject to the University's jurisdiction from the time of their admission until their enrollment has been formally terminated. Please refer to the Student Handbook for more details. A copy of the Student Handbook is available on the Chaminade website.

Week	Week of	Assignments	Important this week
1	1/8	Autonomic Nervous System Special Senses	
2	1/15	Special Senses, cont. Endocrine System	Add/Drop ends
3	1/22	Endocrine System, cont. Exam 1	Exam 1
4	1/29	Cardiovascular System: Blood Cardiovascular System: Heart	
5	2/5	Cardiovascular System: Heart, cont. Circulation and Hemodynamics	
6	2/12	Circulation and Hemodynamics, cont. Exam 2	Exam 2
7	2/19	Lymphatic System Lymphatic System, cont.	
8	2/26	Respiratory System Respiratory System, cont.	
9	3/4	Digestive System Digestive System, cont.	

10	3/11	Metabolism Exam 3	Exam 3
11	3/18	SPRING BREAK	
12	3/25	Urinary System Fluid Balance	
13	4/1	Exam 4 Reproductive System: Male	Exam 4
14	4/8	Reproductive System: Male, cont. Reproductive System: Female	
15	4/15	Reproductive System: Female, cont.	
16	4/22	Development and Inheritance Review for Final Exam	
17	4/29	Cumulative Final Exam	Final Exam

***Note: This syllabus and course schedule are living documents: they are free to change.** I will adhere as closely as possible, but there may be times in which we will spend extra time on a particular topic or add/delete a topic to the course. I strive to keep our education current and relevant to the world in which we live.