

## Biological Science 152: Human Anatomy and Physiology

Monday, Wednesday, Friday 9:30 - 10:20 H223  
Tuesday and Thursday 8:30 - 9:50 H223

**Instructor:** John Crocker

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**Office:** H101

**Office Hours:** Monday 10:20-12:20 or by appointment

### Required Texts and Supplementary Materials:

Martini, Nath and Bartholomew. Fundamentals of Anatomy & Physiology, 10<sup>th</sup> Edition, 2015.

Computer with internet access

<http://chaminade.college.com>

### Supplemental Texts / Materials:

[www.masteringaandp.com](http://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

Human Anatomy and Physiology (Bio 152) will conclude the human anatomy & physiology course materials for health/medical sciences programs. Topics covered will include the control systems, maintenance, and continuity of the human body. Course material encompasses a detailed overview of the following systems: nervous, endocrine, respiratory, urinary, and reproductive system. The course consists of three lecture hours and 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. This course is intended for students pursuing careers in health occupations, or as an elective course for other majors.

### Recommended preparation:

First semester of human anatomy and physiology is required. Concurrent registration in Bio 152 lab is required unless previously completed.

### Expected Course Learning Outcomes:

1. Identify and demonstrate an understanding of major cell and tissue types
2. Identify selected structures of the human body
3. Relate the structures of the human body to their functions.
4. List the organ systems of the human body and explain their functions
5. Develop basic laboratory and dissection, skills which can be utilized in further investigations.
6. Apply knowledge of structure and function learned at one level or system to other levels or systems.

*Measure: written exams and quizzes, homework, current issues reports*

### Strategies for Success

1. Read your lecture and laboratory assignments before class and lab, then again afterwards
2. Attend all lectures, labs, and study sessions
3. Devote a block of time each day to your A&P course. You should be spending 2 hours at home for every hour in class. That is 12 hours a week you should spend outside of lecture and lab on this class.
4. Set up a study schedule and stick to it.
5. Do not procrastinate.
6. Develop the skill of memorization, and practice it regularly
7. 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
8. Have your classmates help motivate you and form study groups
9. As soon as you experience difficulty with the course, seek assistance. Do not wait weeks or it may be too late to succeed. Make use of e-mail, laboratory periods, or office hours to get advice and help.

### Course Structure:

This course is taught in connection with the laboratory portion. Lectures will be formal and full attendance is required. In the event of an absence, lecture information will not be provided by the instructor. It is the student's responsibility to network with peers to get the relevant information. Laboratory will follow lecture topics unless otherwise specified.

### Listed below are the four important components of this course:

#### #1 Lecture

All lectures will correspond with assigned readings. You should read the chapter both before and after the relevant lecture. Note taking is highly recommended. Power point lecture handouts will be available on eCollege.

#### #2 Assignments

The current issue topics will be assigned throughout the term. The current issue assignment instructions are attached.

#### #3 Quizzes/Tests

Exams and quizzes will consist of the following potential question types: multiple choice, fill in the blank, short answer, and essay questions. Expect to spend most of your time on essays.

#### #4 Participation:

Participation grade includes both attendance and participation in class discussions. Failure to attend regular classes will result in a deduction to class participation grade.

### Grading Policy:

Quizzes (drop 1)	20%
Study Guides	10%
Current Issues (drop 1)	15%
Mid-Term	25%
Final Exam	25%
Participation	5%

A= 90% and up

B= 80-89%

C= 70-79%

D= 60-69%

F= less than 60%

-Please note that this point system is tentative and may change slightly.

### Academic Honesty:

Students are expected to have read and to abide by the "Student Rules of Conduct" which are available in your copy of Chaminade University's Student Handbook. Cheating in the form of plagiarism, collusion, or deception will not be tolerated and will negatively affect your grade.

Any plagiarism or other cheating will result in failing the assignment and referral to the dean for disciplinary action, which may include expulsion from the program and the school.

### Attendance and submittal of late work and make-up of missed quizzes/exams policy:

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 or by leaving a message with the instructor's division office (Natural Science and Math 1 (808) 440-4204). 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. Late arrival counts as missing half a class.

Late-work submittals and make-up of missed quizzes and exams will not be permitted, without prior approval by instructor and a valid excused absence.

**Withdrawal policy:**

Please consult your program coordinators for assistance regarding withdrawal from this course.

**Electronic Devices**

Use of cellphones and music devices in any class is discourteous and may lead to suspicion of academic misconduct. Electronic devices may be used for referencing class materials (lecture slides and study guides) and for notetaking only. Students who cannot comply with this rule will be asked to leave class and marked absent. This will negatively affect your grade. Please refer any questions to the Dean of Natural Sciences and Mathematics.

**ADA Accommodation Statement:**

Pursuant to several 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 basis of disability and are eligible for reasonable accommodations or modifications in the academic environment to enable them to enjoy 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 at 808-735-4845 for further information.

**Title IX Statement:**

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. Should you want to speak to a confidential source you may contact the following:

- Chaminade Counseling Center | 808 735-4845.
- Any priest serving as a sacramental confessor or any ordained religious leader serving in the sacred confidence role.

**Guidelines for Communications**

The University provides a Chaminade email address for all students. Official Chaminade communications will be sent to the students' Chaminade email address and instructors will use only this email to communicate with students. It is the responsibility of the student to check their email frequently. Report email-related problems to the Helpdesk at 808-735-4855 or [helpdesk@chaminade.edu](mailto:helpdesk@chaminade.edu).

When communicating with your professor:

- Use the Chaminade email account provided. ([john.crocker@chaminade.edu](mailto:john.crocker@chaminade.edu))
- Always include a subject line.
- Use standard fonts.
- Special formatting such as centering, audio messages, tables, html, etc. should be avoided unless necessary to complete an assignment or other communication.

Week	Beginning	Assignments	Assignments/Tests
1	1/11	Read Ch 16 ANS and Higher-Order Functions 1) Study: all tables and figures 2) Do related study guide questions Read Ch 17 Special Senses 1) Study: all tables and figures 2) Do related study guide questions	
2	1/18	Read Ch 18 Endocrine System 1) Study: all tables and figures 2) Do related study guide questions	Martin Luther King Day Add/Drop ends Tues Current issue 1
3	1/25	Read Ch 19 Blood 1) Study: all tables and figures 2) Do related study guide questions	Quiz 1 (Ch 16-18)
4	2/1	Read Ch 20 The Heart 1) Study: all tables and figures 2) Do related study guide questions	Current issue 2
5	2/8	Read Ch 21 Blood Vessels and Circulation 1) Study: all tables and figures 2) Do related study guide questions	Quiz 2 (Ch 19-20) Friday Deadline W (no record)
6	2/15	Read Ch 22 Lymphatic System and Immunity 1) Study all tables and figures 2) Do related study guide questions	Presidents Day
7	2/22	Complete Ch 22 Lymphatic System and Immunity 1) Complete Study Guide	Current issue 3
8	2/29	Read Ch 23 Respiratory System 1) Study: all tables and figures 2) Do related study guide questions	Midterm (Ch 16-22)
9	3/7	Read Ch 24 Digestive System 1) Study all figures, exhibits, and tables 2) Do related study guide questions	Current issue 4
10	3/14	Read Ch 25 Metabolism and Energetics 1) Study: all tables and figures 2) Do related study guide questions	Quiz 3 (Ch 23-24)
	3/21	SPRING BREAK	
11	3/28	Read Ch 26 Urinary System 1) Study: all tables and figures 2) Do related study guide questions	
12	4/4	Read Ch 27 Fluid, Electrolyte, and Acid-Base Balance 1) Study: all tables and figures 2) Do related study guide questions	W Deadline Monday Quiz 4 (Ch 25-26)
13	4/11	Read Ch 28 Reproductive System 1) Study: all tables and figures 2) Do related study guide questions	
14	4/18	Read Ch 29 Development and Inheritance 1) Study: all tables and figures 2) Do related study guide questions	Quiz 5 (Ch 27-28)
15	4/25	Finish Ch 29 and Review for Final	Review Session
16	5/2	Final Exam (Ch 23-29)	Final Exam (Ch 23-29)

NO CLASS:

January 18      Martin Luther King Day  
February 15      President's Day  
February 25      Good Friday

## Current Issue Writing Assignments

**Assignment:** Write a 1000 to 2000 word paper reviewing and discussing a recent article from a peer-reviewed academic journal on a topic relevant to the current units of study.

**Objectives:** to practice academic, scientific writing skills; to increase skill in reading and understanding academic peer-reviewed articles; to gain additional knowledge about a current physiology topic.

**Sources:** Your main source will be an article from a peer-reviewed academic journal. It must be a research article that investigates new developments in the subject area (not more than 5 years old). Articles discussing experimental treatments, results of primary research, or new medical findings are all acceptable. NOT acceptable are case studies, non-academic articles, opinion essays (even if they are published in an academic journal), or literary/subject reviews.

**If in doubt, ask me.**

When using this source material you must use proper citation. You must also include a print-out of your main article.

You may need or want to include additional sources. You may use as many sources as needed, but you must use proper citation for all works consulted. You may use your textbook as a source for definitions and general information.

**PAPERS WITH INCOMPLETE OR INCORRECT CITATIONS WILL RECEIVE A ZERO.**

**Format:** 2-4 pages, 12 point times new roman type, **no cover sheet**, must include works cited (works cited do not count towards the 2-4 pages).

Your writing should be clear and concise and your discussions and conclusions based on the evidence presented in the article. Focus your writing on discussing the results and discussion/conclusions of the article.

**Method:** Detailed information about how to research your topic and how to write your paper are available on ecollege. You are responsible for reading this.

Pick your topic based on the units of study, and use the library to locate a full-text article. Your paper should include an introduction of your topic and article, body of discussion and a conclusion. You should provide basic background of your topic, but be brief. Your paper should mainly consist of a discussion of the articles findings: Why did they get the result they did and what does it mean? Did the results support the hypothesis, and how? What mechanisms were involved in achieving the results? What further questions remain unanswered? These are the types of questions that should be addressed in your work. Your paper should finish with a brief conclusion. Remember to include all necessary citations and a works cited page.

**Grading:** Papers will be graded on accuracy in presenting the information from the article, thoroughness in discussing the results, hypothesis, and future implication, and proper formatting of your work.

Papers are expected to be proof-read for spelling and grammar. Minor errors will not affect grade, but consistent poor writing will result in a lower grade. Late papers will not be accepted. Upon request you may be allowed to turn in a draft at least one week in advance for notes and help.

**Papers submitted without proper citations or without a printout of the article will receive a zero.**