

Course Syllabus

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Semester: Fall 2022

Course: BI 321

Course Title: Advanced Human and Comparative Anatomy

Credits: 3

Format: Lecture

Class time: Tues & Thurs 10:00-11:20am

Classroom location: to be announced

Instructor Information:

Dr. Mike Dohm, Ph.D.

Associate Professor of Biology, School of Natural Science and Mathematics

Office: Wesselcamper 108

Office hours: Mon & Fri 9 – 11am, Thurs 2 – 4pm, or by appt (CANVAS)

Email: mdohm [at] chaminade.edu

Catalog description

BI 321 Advanced Human and Comparative Anatomy (3)

Advanced survey of human gross anatomy and adaptation is used to explore comparative aspects of the developmental biology and adaptations of other vertebrate species. Prerequisites: EN 102, COM 101, BI 216, BI 216L. Co-requisite: BI 321L (link to [catalog page for Biology courses](https://catalog.chaminade.edu/course/biology) (<https://catalog.chaminade.edu/course/biology>)).

Course elements

This course provides a comprehensive overview of human anatomy. It also reviews the evolution of the human body systems and compares this to all vertebrate groups. Comparative anatomy has a long,

illustrious tradition in the biological and biomedical sciences. The germ line development, physical influences on morphology and function and the adaptation to environment and behavior are discussed in detail.

Students are responsible for all text assignments, as well as supplementary handouts. Students are encouraged to read ahead to keep up with high volume of material, do NOT underestimate how much this will help you in class!!!

Required Text

Kenneth V. Kardong, Vertebrates – Comparative Anatomy, Function, Evolution, 7th ed.,(or higher) McGraw Hill publishing. Link [to table of contents](#).

All other reading materials will be provided or sourced from free access on the internet.

You NEED to READ this book, please let me know if you are having issues getting a copy.

Assignments and Grading

	How many	Points per assignment	Total points	Weight
Assignments (drop lowest score)	10	8	80	16%
Attendance (daily, everyone start with +5 pts)	25	1	30	6%
Participation (drop lowest score)	15	6	90	18%
Semester exams	4	50	200	40%
Final exam	1	100	100	20%
			500	

Assignments may include worksheets, reflections, quizzes, and think-pair-share concept discussions. Ten assignments are expected, approximately one per week - excluding exam weeks. The student's lowest score of the ten assignments may be dropped.

Attendance and participation is expected and required. Participation includes asking questions (in class or online), posting to our online forums, creating and leading study group, maintaining accurate class notes. Not including exam dates we are scheduled for 25 in-person meetings. See Attendance & Tardiness Policy Statement for

Semester exams are used to assess your understanding of the material a few chapters at a time. Four exams are scheduled:

- Exam 1, Chapter 1 - 5
- Exam 2, Chapters 6 - 9
- Exam 3, Chapters 10 - 12
- Exam 4, Chapters 13 - 16

Cumulative final exam: Questions drawn from assignments, quizzes, and semester exams will be included.

Grading Scale

A	Excellent	≥ 90%	
B	Good	≥ 80% to 89%	
C	Average	≥ 70% to 79%	
D	Below average	≥ 50% to 69%	
F	Failure	< 50%	

Learning Outcomes

Student Class Content Learning Outcomes with Program Learning Outcomes

Students who successfully complete this course will be able to:

Course Learning Outcomes	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6
1) Understand how comparative anatomy is used to view/discern evolutionary relationships					X	
2) Examine different vertebrates and their interactions with both the abiotic and biotic components of their environment		X		X		
3) Understand the structural and physiological adaptations of representative vertebrate groups to their environments				X	X	
4) Gain an appreciation of the structure-function relationships in representative vertebrates				X	X	

Biology Program Learning Outcomes (PLO)

Upon completion of the B.S. degree program in Biology the student will demonstrate:

1. An understanding of the scientific method and the ability to design and test a hypothesis

2. The ability to visualize, statistically evaluate, validate and interpret scientific data, and to communicate science effectively both orally and in writing
3. The ability to acquire and comprehend information from published scientific literature and to employ computational resources in the resolution of biological problems
4. An understanding of the chemical and physical principles that unite all life forms, and of biological organization at the molecular, cellular, tissue, organ, organism and system levels
5. The ability to 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. An understanding of the entry requirements, career pathways and progression for the major post-graduate fields of research, education and the health professions

Marianist Values

Refer to your Canvas WELCOME learning module to see specifically how this class aligns with 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
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 lama 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.

Technical Assistance for Canvas:

This information can also be found in the WELCOME MODULE in 'Instructions for using Technology in this class'.

- Search for help on specific topics or get tips in Canvas Students
- Live chat with Canvas Support for students
- Canvas Support Hotline for students: +1-833-209-6111
- Watch this video to get you started
- Online tutorials: click on "Students" role to access tutorials
- Contact the Chaminade IT Helpdesk for technical issues: helpdesk@chaminade.edu or call (808)

735-4855

Tutoring and Writing 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 (<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 TutorMe or Smarthinking. Tutor Me and Smarthinking can be accessed 24/7 from your Canvas account. Simply click Account – Notifications – TutorMe or Smarthinking. For more information, please contact Kōkua 'Ike at tutoring@chaminade.edu or 808-739-8305.

Additional Departmental and University Policies

Electronic Devices

Use of music devices and cell phones is prohibited during all, Natural Science and Mathematics classes at Chaminade, unless specifically permitted by your instructor. Use of cellphones and music devices in laboratories is a safety issue. In addition, use of cellphones and music devices in any class is discourteous and may lead to suspicion of academic misconduct. Students who cannot comply with this rule will be asked to leave class and may be subject to laboratory safety violation fines. You will be asked to leave class and marked absent if you do not comply. This will negatively affect your grade. Please refer any questions to the Dean of Natural Sciences and Mathematics.

ADAA 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.

Disability access

If you need individual accommodations to meet course outcomes because of a documented disability, please speak with me to discuss your needs as soon as possible so that we can ensure your full participation in class and fair assessment of your work. Students with special needs who meet criteria for the Americans with Disabilities Act (ADA) provisions must provide written documentation of the need for accommodations from Kōkua 'Ike: Center for Student Learning by the end of week three of the class, in order for instructors to plan accordingly. If a student would like to determine if they meet the criteria for accommodations, they should contact the Kōkua 'Ike Coordinator at (808) 739-8305 for further information (ada@chaminade.edu).

Attendance & Tardiness

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 should make arrangements to complete their 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 (Natural Science and Mathematics - 1 (808) 440-4204). It is the instructor's prerogative to modify deadlines of course requirements accordingly.

Chaminade administrative withdrawal policy. If you miss two consecutive classes in an unexcused fashion (i.e. with prior email approval from me) then you will be withdrawn from the class.

Additional attendance requirements. No more than five classes may be missed across the whole semester. Failure to score at least 20 points (30 possible) on attendance will result in failure of the course.

Consecutive unexcused absences equivalent to more than one 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.

Reasons for tardiness should be explained to the instructor at the end of the class. Repeated tardiness may lead to a grade reduction for the course. Repeated unexcused tardiness may result in discussion with the instructor regarding the ability of the student to commit to the class.

Policy on Make-Up Tests

Makeup exams and quizzes are not given unless a student is ill and contacts the instructor within 24 hours of missed class period. A doctor's written excuse should be supplied at the NEXT class attended. Extra credit opportunities may be available during the course of regular lectures or may be written into the exams.

Policy on Communication

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>).

Refer to the instructions in the WELCOME MODULE ON CANVAS – 'What should I expect from my Instructor?'

Title IX Declaration

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.

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

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 so as 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 (link [to pdf file \(https://assets.chaminade.edu/wp-content/uploads/2022/07/29101951/22-23-Student-Hanbook-Working-Revisions.pdf\)](https://assets.chaminade.edu/wp-content/uploads/2022/07/29101951/22-23-Student-Hanbook-Working-Revisions.pdf)).

Academic dishonesty, including but not limited to

- cheating
 - collaborating on assignments without express permission from instructor
 - copying or allowing to copy other student's work
- collusion

- working together on individual assignment
- fabrication
 - altering collected data
 - altering images
- misrepresentation
 - any act intended to deceive an instructor to gain academic advantage
- plagiarism
 - representing someone else's work as your own

will not be tolerated.






The instructor may modify elements of this syllabus according to the operational needs of the class. Please keep on track of changes given the fluctuating pandemic restrictions.


Tentative Course Outline

Every effort has been made to ensure that the material in this syllabus is accurate and complete. The instructor reserves the right to make any changes in the contents of this syllabus that she deems necessary or desirable.

Link [to lecture schedule](#).

Course Summary:

Date	Details	Due
Fri Aug 26, 2022	 First Assignment https://chaminade.instructure.com/courses/20532/assignments/249210	due by 11:59pm
Thu Sep 8, 2022	 Exam01 https://chaminade.instructure.com/courses/20532/assignments/243205	due by 11:20am
Tue Oct 4, 2022	 Exam02 https://chaminade.instructure.com/courses/20532/assignments/243206	due by 11:20am
Thu Oct 27, 2022	 Exam03 https://chaminade.instructure.com/courses/20532/assignments/243207	due by 11:20am
Tue Nov 22, 2022	 Exam04 https://chaminade.instructure.com/courses/20532/assignments/243208	due by 11:20am

Date	Details	Due
Tue Dec 6, 2022	 Final https://chaminade.instructure.com/courses/20532/assignments/243209	due by 10:30am