

Introduction to Biological Anthropology (ANT3514C)

Syllabus – Fall 2022

Lectures: Tuesday 8:30-10:25 in FAB 105
Thursday 9:35-10:25 in FAB 105

Laboratories: All lab sessions are in Turlington B304 (basement of Turlington Hall) EXCEPT the week of September 13 when lab will be at CAPHIL.

Lab Class #	Lab Section	Date and Time
10449	4C21	Tues 12:50-13:40
10459	4C23	Tues 13:55-14:45
10460	4C24	Wed 12:50-13:40

Instructor: Dr. Kim Valenta
Department of Anthropology
University of Florida
Office: Turlington Hall, Room B123
kimvalenta@ufl.edu

Office hours: By appointment

Teaching Assistants: * Best to Communicate with TAs in CANVAS *
Grace Calhoun, grace.calhoun@ufl.edu

Course Description: Anthropology is the holistic study of the human condition. Biological anthropology is a subfield of the larger discipline that studies humankind as a zoological species. As biological anthropology is firmly rooted in evolutionary theory, the evolutionary biology of humans is the central focus of the course. Basic concepts of genetics, geology, paleontology, comparative anatomy, primate biology, and material culture provide the foundation for understanding humanity's place in nature. ANT 3514C is a four credit General Education Biological Sciences ('B') course that also satisfies the CLAS Science Laboratory Requirement. This 'core' course is required of all Anthropology majors. A minimum grade of C is required for General Education credit.

Biological science courses provide instruction in the basic concepts, theories and terms of the scientific

ANT3514C meets the General Education Objectives for Biological Sciences (B)
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method in the context of the life sciences. Courses focus on major scientific developments and their impacts on society, science and the environment, and the relevant processes that govern biological systems. Students will formulate empirically-testable hypotheses derived from the study of living things, apply logical reasoning skills through scientific criticism and argument, and apply techniques of discovery and critical thinking to evaluate outcomes of experiments.

Content SLOs:

[updated 1/10/2021]

**In this course, students will be assessed for General Education Biological Sciences
Student Learning Outcomes (SLOs) in three areas: Content, Critical Thinking, and Communication**

Identify, describe, and explain the basic concepts, theories and terminology of natural science and the scientific method; the major scientific discoveries and the impacts on society and the environment; and the relevant processes that govern biological and physical systems.

- At the end of this course students will be able to identify, describe, explain, and apply factual, conceptual, and procedural knowledge in the scientific method as applied to biological anthropology and related disciplines. Achievement of this learning outcome will be assessed through three in-class exams, eleven graded lab-based reports, and two lab-based practical exams.

Critical Thinking SLOs:

Formulate empirically-testable hypotheses derived from the study of physical processes or living things; apply logical reasoning skills effectively through scientific criticism and argument; and apply techniques of discovery and critical thinking effectively to solve scientific problems and to evaluate outcomes.

- Through class-based lecture, lab-based exercises and problem sets, and assigned reading, students will apply the scientific approach to investigate human variation in its biological, social and cultural dimensions. Students will also integrate different sources and types of knowledge into holistic perspectives about human variation. Finally, students will evaluate the significance, quality and veracity of information and apply it effectively to solve problems.

Communication SLOs:

Communicate scientific knowledge, thoughts, and reasoning clearly and effectively.

- In lab, students must synthesize and write cogent answers to questions posed about materials covered in weekly meetings. Each week, lab-based reports will be submitted and evaluated for content and clarity.

Course Materials:

Required text: Jurmain R, Kilgore L, Trevathan W, Ciochon RL, Introduction to Physical Anthropology, 15th edition (2017), Cengage Learning.

Website: This course is administered through e-learning in Canvas (<http://ufl.instructure.com>). The syllabus, lab worksheets, supplemental materials and your grades are all accessed here.

Communication: You are encouraged to contact Dr. Valenta and/or the teaching assistants with any questions or concerns about the course. Canvas is the best way to send emails to Dr. Valenta or the teaching assistants. If you email Dr. Valenta directly, please be sure to use "Introduction to Biological Anthropology" in the subject line.

Grading: Grades are based on three (3) exams (68%), ten (10) lab reports (23%), and two (2) laboratory practicals (9%).

300 pts	Exams (3)
100 pts	Lab Reports (10)
40 pts	Lab Practicals (2)
440 pts	Total Points

Exams are non-cumulative, objective exams. They are designed to test vocabulary, concepts, and associations relevant to biological anthropology. **Lab reports** feature questions intended to guide students through activities in the biological anthropology lab. Some labs will contain additional work to be performed outside of class. Students are expected to have accessible a copy of the lab from the Canvas site; failure to be prepared for lab may result in missed lab points. Lab activities will be submitted via Canvas. **Lab practicals** test your identification skills and recognition of models introduced in lab. Students will advance through the lab practicals in timed questions.

Make-up exams, lab activities, and lab practicals will be allowed under extraordinary circumstances, including excused absences documented through the Dean of Students Office (<http://www.dso.ufl.edu>). Exams may not be retaken.

Attendance: Attendance at weekly laboratory sections is mandatory, and you must attend the section for which you are registered to receive credit. Neither the Instructor nor Teaching Assistants will

Cheating and plagiarism, intentional or otherwise, during the course will not be tolerated and disciplinary action will follow university policy as outlined by the UF Dean of Students

distribute laboratory content outside of class. Attendance in lectures is strongly recommended, but the Instructor will provide lecture slides via Canvas. Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies found at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.

University Policy on Accommodating Students with Disabilities: Students requesting accommodation for disabilities must first register with the Dean of Students Office (<http://www.dso.ufl.edu/drc/>). The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation. You must submit this documentation prior to submitting assignments or taking exams. Accommodations are not retroactive; therefore, students should contact the office as soon as possible in the term for which they are seeking accommodations.

University Policy on Academic Misconduct: UF students are bound by The Honor Pledge which states, "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (sccr.dso.ufl.edu/process/student-conduct-code/) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

Course Evaluation: Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on

how to give feedback in a professional and respectful manner is available at <https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.

Materials and Supplies Fees: N/A

Campus Resources:

Health and Wellness U Matter, We Care: If you or someone you know is in distress, please contact umatter@ufl.edu, 352-392-1575, or visit umatter.ufl.edu/ to refer or report a concern and a team member will reach out to the student in distress.

Counseling and Wellness Center: Visit counseling.ufl.edu/ or call 352-392-1575 for information on crisis services as well as non-crisis services.

Student Health Care Center: Call 352-392-1161 for 24/7 information to help you find the care you need, or visit shcc.ufl.edu/.

University Police Department: Visit police.ufl.edu/ or call 352-392-1111 (or 9-1-1 for emergencies).

UF Health Shands Emergency Room / Trauma Center: For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608; ufhealth.org/emergency-room-trauma-center.

Course Schedule:

Date	Lecture	Readings	Lab	Assessment
Aug 25	Introduction	3-19	No labs	
30	The scientific method	19-33		
Sep 1	Darwin and natural selection	33-47	Lab 1: Classification	
6	Heredity	49-78		
8	Genetics	81-98	Lab 2: Heredity	
13	Microevolution	98-110	Lab 3: Forensics – TOUR	
15	The tree of life	113-140	OF CAPHIL LAB	
20	The human body	507-517		
22	Comparative primate anatomy	143-155	Lab 4: Osteology	
27	EXAM 1	None		
29	Primate diversity	155-160	Lab 5: Primate Phylogeny	EXAM 1
Oct 4	Anthropoids	160-182		
6	Primate behavior	185-193	Lab 6: Primate Function	
11	Communication and culture	194-223		
13	Primate origins	225-237	Lab Practical 1	Lab Practical 1
18	Early anthropoids	237-261		
20	Australopithecines	287-310	Lab 7: Primate Evolution	
25	EXAM 2	none		
27	Paleoanthropology	263-284	Lab 8: Paleoanthropology	EXAM 2
Nov 1	Early <i>Homo</i>	310-327		
3	<i>Homo erectus</i>	327-345	Lab 9: Genus <i>Homo</i>	
8	Premodern humans	347-379		
10	Modern <i>Homo</i>	383-409	NO LAB THIS WEEK	
15	Modern human variation	411-430		
17	Human biology	430-458	Lab 10: Human variation	
22	Thanksgiving – NO CLASS	none		
24			NO LAB THIS WEEK	
29	Forensic anthropology	458-463		
Dec 1	Questions about Exam?	none	Lab Practical 2	Lab Practical 2
6	FINAL EXAM	none	NO LAB THIS WEEK	FINAL EXAM