

# **Introduction to Biological Anthropology (ANT3514C)**

## **Syllabus – Fall 2019**

**Lectures:** Tuesday 2-3<sup>rd</sup> periods and Thursday 3<sup>rd</sup> period in L011 TUR (Turlington Hall)

**Laboratories:** Tuesday 6<sup>th</sup> (10601) and 7<sup>th</sup> (10611)  
Wednesday 6<sup>th</sup> (10612) and 7<sup>th</sup> (10613)  
Thursday 5<sup>th</sup> (10614) and 7<sup>th</sup> (10615)  
**Labs held in B304 TUR**

**Instructor:** **Dr. John Krigbaum**  
Professor of Anthropology and Undergraduate Coordinator  
Department of Anthropology  
University of Florida  
352-294-7540

**Email:** [krigbaum@ufl.edu](mailto:krigbaum@ufl.edu)

**Office hours:** 1350A TUR; Tuesdays 1:00-3:00; Wednesdays 1:00-3:00 and by appointment

### **Teaching Assistants (office hours held in B307 Turlington Hall):**

Jordan Traff ([jtraff@ufl.edu](mailto:jtraff@ufl.edu))

lab sections: Tuesday 6<sup>th</sup> and Thursday 5<sup>th</sup> and 7<sup>th</sup>

office hours: Tuesday 3:00-4:00; Thursday 12:45-1:45 and 3:00-4:00

Ashley Deutsch ([adeutsch@ufl.edu](mailto:adeutsch@ufl.edu))

lab sections: Tuesday 7<sup>th</sup> and Wednesday 6<sup>th</sup> and 7<sup>th</sup>

office hours: Tuesday: 11:50-1:50 and Wednesday 3:00-4:00

### **Course Description:**

Anthropology is a holistic discipline. As such, anthropologists attempt to view humans, their activities, and their cultural and biological history in as broad a context as possible.

Anthropology is divided into a number of subfields, of which biological anthropology (= physical anthropology) is the subject of this course. Its goal is to understand the biological nature and history of humankind and their living (= extant) relatives. Biological anthropology is firmly rooted in evolutionary theory and thus evolutionary biology is a central tenet of this 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.

**ANT3514C meets the General Education Objectives for Biological Sciences (B)**

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

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

**Content SLOs:**

*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 in-class and online quizzes, 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, and Bartelink, EJ (2018) *Introduction to Physical Anthropology*, 15<sup>th</sup> edition. Cengage Learning. (The 2013-2014 edition of this book is out of date and not recommended)

*Website:* This course is administered through e-learning in Canvas (<http://ufl.instructure.com>). Access is provided for the syllabus, lab worksheets, supplemental materials/readings, quizzes and grades.

**Communication:** You are encouraged to contact Dr. Krigbaum and/or the teaching assistants with any questions or concerns about the course. Email is the best way to reach Dr. Krigbaum ([krigbaum@ufl.edu](mailto:krigbaum@ufl.edu)). Please use “Introduction to Biological Anthropology” in the subject line. Please use Canvas to communicate with the teaching assistants and please utilize our office hours.

**Grading:** Grades are based on three in-class exams (60%), five out of six online quizzes (10%), and laboratory performance (30%).

<b>300 pts</b>	Exams (3)
<b>50 pts</b>	Online Quizzes (6) <i>(lowest quiz dropped)</i>
<b>110 pts</b>	Lab Reports (11)
<b>40 pts</b>	Lab Practicals (2)
<b>500 pts</b>	Total

A	500-465	B-	414.5-400	D+	349.5-335
A-	464.9-450	C+	399.5-385	D	334.5-315
B+	449.9-435	C	384.5-365	D-	314.5-300
B	434.9-415	C-	364.5-350	E	299.5-0

**Exams** are non-cumulative, objective exams administered in-class and designed to test vocabulary, concepts, and associations relevant to biological anthropology. **Online quizzes** are timed and available in Canvas on Friday (after lectures that week) and will remain available until the start of the following Tuesday lecture. **Lab reports** feature questions intended to guide students through hands-on activities in the biological anthropology lab. Some labs will contain additional work to be performed outside of class. Students are expected to print a copy of the lab from the Canvas site and bring it to lab each week; failure to do so may result in missed lab points. Students will be required to complete the lab and return it to the TA one week after the lab activity. **Lab practicals** are hands-on exams focused on testing your identification and problem-solving skills. Students will move through the exams in timed rotations.

There are no opportunities for making up missed lab assignments or exams except for reasons of medical or family emergency (documentation is required). Such work missed may be made up by arrangement with the teaching assistant for your section. Late online quizzes will be accepted on request for reduced credit.

**Class and Lab Attendance:** Attendance in 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 distribute laboratory notes outside of class. Attendance in lectures is recommended. Video recording of lectures in any form is not permitted; audio recording is allowed only with specific permission of the instructor.

**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 the quizzes or 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:**

Academic honesty and integrity are fundamental values of the University community. Students should be sure that they understand the UF Student Honor Code at <http://www.dso.ufl.edu/students.php>.

*UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “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.*

**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**

### **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:**

There are additional course fees (\$24.03) to defray costs of lab supplies and lab-related wear and tear on skeletal material and modern and fossil casts.

### **Campus Resources:**

**Health and Wellness U Matter, We Care:** If you or someone you know is in distress, please contact [umatter@ufl.edu](mailto:umatter@ufl.edu), 352-392-1575, or visit [umatter.ufl.edu/](http://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/](http://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/](http://shcc.ufl.edu/).

**University Police Department:** Visit [police.ufl.edu/](http://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](http://ufhealth.org/emergency-room-trauma-center).

**Weekly Course Schedule:**

Date	Lecture (L011 TUR)	Reading	Lab (B304 TUR)	Assessment
Aug.	20	Introduction	2-19	
	22	The scientific method	19-33	*No Labs*
	27	Darwin and natural selection	33-47	<b>Lab 1:</b> Classification
	29	Genetics	48-78	
Sept.	3	Heredity	80-98	<b>Lab 2:</b> Heredity
	5	Microevolution	98-110	
	10	The tree of life	112-140	<b>Lab 3:</b> Forces
	12	The human body	507-519	
	17	Comparative primate anatomy	142-154	<b>Lab 4:</b> Osteology
	19	<b>EXAM 1 (in-class)</b>	none	
	24	Primate diversity	155-160	<b>Lab 5:</b> Primate Anatomy & Phylogeny
	26	Anthropoids	160-182	
Oct.	1	Primate behavior	184-194	<b>Lab 6:</b> Primate Functional Morphology
	3	Communication and culture	194-223	
	8	Primate origins	224-237	<b>Lab Practical 1</b>
	10	Early anthropoids	237-245	
	15	Later anthropoids	245-261	<b>Lab 7:</b> Primate Evolution
	17	Paleoanthropology	262-284	
	22	Hominin origins	286-297	<b>Lab 8:</b> Australopiths
	24	<b>EXAM 2 (in-class)</b>	none	
	29	Australopiths	297-309	<b>Lab 9:</b> Genus Homo
	31	Early <i>Homo</i>	310-327	
Nov.	5	<i>Homo erectus</i>	327-345	<b>Lab 10:</b> Recent Homo
	7	Premodern humans	346-380	
	12	Modern <i>Homo</i>	382-409	<b>Lab 11:</b> Human variation
	14	Modern human variation	411-431	
	19	Human biology	431-458	<b>Lab Practical 2</b>
	21	Forensic anthropology	458-464	
	26	Life history	466-489	*No Labs*
	28	Biological anthropology (reprise)	490-506	
Dec.	3	<b>EXAM 3 (in-class)</b>	none	*No Labs*
		Fall classes end Dec. 4 <sup>th</sup> (Weds)		