

# Fall 2014

## ANT 3514C – Introduction to Biological Anthropology

### Department of Anthropology, University of Florida

**Lectures:** Tuesdays 8:30-9:20 am (2<sup>nd</sup>) in 101 Little Hall  
Thursdays 8:30-10:25 am (2<sup>nd</sup> & 3<sup>rd</sup>) in 101 Little Hall

**Labs:** Tuesdays & Wednesdays, by section in B304 Turlington Hall (Basement)

**Website:** <https://ls.at.ufl.edu> \* click on (1) e-Learning in Sakai, (2) Log In:  
ANT3514C: All Sections, Fall 2014: Introduction to Biological Anthropology

**Instructor:** Dr. John Krigbaum, Associate Professor & Undergraduate Coordinator  
Office: 1350A Turlington Hall  
Office hours: Thursdays 10:30-12:30 (4<sup>th</sup> & 5<sup>th</sup>) and by appointment.  
(UG Advising: Tuesdays 10:30-12:30 and Wednesdays 1:00-3:00)  
Email: [krigbaum@ufl.edu](mailto:krigbaum@ufl.edu); tel: (352) 294-7540

**Teaching Assistants:** Students are encouraged to seek help from any TA, not simply the one who proctors their assigned lab section.

The TA office is in B307 Turlington Hall; tel: (352) 294-7543

Susan Lad (Sections: 0303,7353,7354); [slad@ufl.edu](mailto:slad@ufl.edu); office hrs: M periods 7<sup>th</sup> & 8<sup>th</sup>

Peter Rej (Sections: 0299,0300,0301); [peterrej@ufl.edu](mailto:peterrej@ufl.edu); office hrs: T periods 7<sup>th</sup> & 8<sup>th</sup>

Laura Van Voorhis (Sections: 0304,6990,7352); [l.vanvoorhis@ufl.edu](mailto:l.vanvoorhis@ufl.edu); hrs: T 3<sup>rd</sup> & R 4<sup>th</sup>

### **COURSE OBJECTIVES**

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. Such a vast field is divided into a number of subfields, of which biological anthropology (= physical anthropology) will be introduced to you in this course. Its goal is to understand the biological nature and history of humankind and their living (= extant) relatives. The evolutionary biology of humans is the central focus of the course. We will cover many topics pertaining to the group of mammals that humans belong, the Order Primates. Basic concepts of genetics, geology, paleontology, comparative anatomy, primate biology, and ecology provide the foundation for understanding humanity's place in nature.

ANT 3514C satisfies Gen. Ed. biological science requirements ('B') and upper-level laboratory requirements (CLAS) and is a 'core' class for all anthropology majors.

### **STUDENT LEARNING OUTCOMES 'SLOs'**

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. Specifically, ANT 3514C will address the following:

#### *Content*

- Identify, describe, explain, and apply factual, conceptual, and procedural knowledge in biological anthropology.

#### *Communication*

- Develop and express ideas pertaining to biological anthropology in written form through active participation in assigned lab modules and exercises.

#### *Critical Thinking*

- Apply the scientific approach to investigate human variation in its biological, social and cultural dimensions.
- Integrate different sources and types of knowledge into holistic perspectives about human variation.
- Evaluate the significance, quality and veracity of information and apply it effectively to solve problems.

**GRADING:** ALL material covered in this course is fair game for exams. **TAKE NOTES !!**

- 'In Class' Exams (N=3)                      60% (300 points) (3 exams, plus extra credit points)
- On-Line Quizzes (N=6)                      5% (25 points) (5 points each, lowest score dropped)
- Class Attendance/'Pop' quiz              5% (25 points)
- Labs (N=10)                                      30% (150 points) (participation, assignments, 2 Exams)

**Percentile Breakdown:**    93.50-100 = A; 90-93.49 = A-; 86.5-89.49 = B+; 83.5-86.49 = B;  
80-83.49 = B-; 76.5-79.99 = C+; 73.5-76.49 = C; 70-73.49 = C-;  
66.5-69.99 = D+; 63.5-66.49 = D; 60-63.49 = D-; <59.99 = E.

Grades are determined out of 500 points and converted to percentiles. Exams will include objective questions (matching, multiple choice, true/false), and may include some problems to solve (no calculators required). On-line quizzes and 'pop' quizzes are intended to keep you "on top" of the material prior to Exams. There will be one "extra credit" opportunity in addition to lab assignments that the TA's will assign and grade. Awarded extra credit points (maximum of 20) will be added to the in-class point tally (350 points).

#### **CLASS ATTENDANCE & MAKE-UP EXAMS/LABS:**

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>. Make-up exams/labs will not be scheduled unless demonstrated illness, serious emergency, or major scheduling conflict with proof provided to the Instructor. An official letter, following university procedures, is expected prior to the event so that a make-up exam/lab can be arranged.

## **ACCOMMODATION**

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, [www.dso.ufl.edu/drc/](http://www.dso.ufl.edu/drc/)) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester. The Disability Resource Center is located in Reid Hall, Room 001. For more information, please refer to the following link: <http://www.dso.ufl.edu/drc/>.

Students experiencing personal problems that are interfering with their academic performance are encouraged to contact the Counseling and Wellness Center: <http://www.counseling.ufl.edu/cwc/Default.aspx> (352) 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

## **REQUIRED TEXTBOOKS/CLICKER:**

Jurmain, R., Kilgore, L., Trevathan, W., and Ciochon, R.L. 2014. *Introduction to Physical Anthropology*, 2013-2014 Edition. Belmont, CA: Wadsworth.

*Scientific American*: September 2014 Issue ('Evolution: The Human Saga')

TurningPoint Clicker: <http://store.turningtechnologies.com> and enter the code "4ufl"

Reading: Miscellaneous on-line resources and pdf files will be made available via Sakai.

## **ATTENDANCE**

- NO LABS first week of class (August 26-27<sup>th</sup>) and also Nov. 11-12<sup>th</sup>; Nov. 25-26<sup>th</sup>.
- Attendance is required at every scheduled lecture and lab (4 credit course = 4 hours per week). Students are responsible for *all* material covered in lecture and lab.
- There will be 'pop' quizzes and questions posed throughout the semester in lecture only. Attendance will be recorded using TurningPoint Clickers. These will not be excused if missed—please do not ask.
- University Attendance Policies apply for both Lecture and Lab. Refer to the following: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.

Period – Time	Monday	Tuesday	Wednesday	Thursday	Friday
2 – 8:30 - 9:20	LECTURE			LECTURE	
3 – 9:35 - 10:25				LECTURE	
4 – 10:40 - 11:30	Lab (0299) PR				
5 – 11:45 - 12:35	Lab (0300) PR				
6 – 12:50 - 1:40	Lab (0301) PR				
7 – 1:55 - 2:45				Lab (6990) LVV	
8 – 3:00 - 3:50				Lab (7352) LVV	
9 – 4:05 – 4:55				Lab (7353) SL	

## **STUDENT CONDUCT**

- Students should behave in accordance to the University of Florida's policy on student conduct
- NO PHOTOGRAPHY/RECORDING OF ANY KIND DURING LECTURE (without permission) – This includes taking pictures of individual slides in lecture.
- PLEASE TURN OFF CELL PHONES IN CLASS (i.e., no texting). (Smart phones should only be used when it is 'clicker time')
- LAPTOPS ARE FOR NOTETAKING ONLY. PLEASE DO NOT FACEBOOK/EMAIL (TAs will enforce this).

## **ACADEMIC HONESTY & INTEGRITY**

UF students are bound by The Honor Pledge:

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 (<http://www.dso.ufl.edu/sccr/process/student-conduct-honor-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.

## **ONLINE COURSE EVALUATION**

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

## **MATERIALS & SUPPLY FEES**

There is a \$19.28 fee for enrollment in this course to cover consumable costs/expenses.



Date	Lecture	Reading	Lab
		Readings and on-line resources will be made available via Sakai on a weekly basis.	Please access and print out labs placed in Sakai 'Resources' folder. Labs will be uploaded the weekend before that week's lab.
<b>I. Introduction</b>			
T 26-Aug	Introduction	1:3-18	<b>** NO LABS **</b>
R 28-Aug	Scientific Inquiry	1:19-23; 2:25-29	
<b>II. Evolutionary Basics</b>			
T 2-Sep	Darwin & Company	2:29-47	<b>LAB 1</b> Natural Selection
R 4-Sep	Mechanisms of Inheritance <b>on-line Quiz 1</b>	3:49-75	
<b>III. Genetics</b>			
T 9-Sep	The Modern Synthesis	4:77-93	<b>LAB 2</b> Mendelian Genetics
R 11-Sep	Forces of Evolution	4:93-105	
<b>IV. Macroevolution</b>			
T 16-Sep	Processes of Evolution	5:107-122; 14:402-407	<b>LAB 3</b> The Human Skeleton
R 18-Sep	Humans and the Tree of Life <b>on-line Quiz 2</b>	5:128-133; 14:389-402	
<b>V. EXAM I / The Primates</b>			
T 23-Sep	<b>EXAM I</b>		<b>LAB 4</b> Primate Traits and Taxonomy
R 25-Sep	The Primate Order	6:135-148	
<b>VI. More Primates</b>			
T 30-Sep	Primate Diversity	6:148-173	<b>LAB 5</b> Comparative Primate Anatomy
R 2-Oct	Primate Behavior <b>on-line Quiz 3</b>	7:175-215	
<b>VII. Paleontology</b>			
T 7-Oct	Fossils & Geological Context	5:122-127; 9:259-267	<b>LAB</b>

Date		Lecture	Reading	Lab
			Readings and on-line resources will be made available via Sakai on a weekly basis.	Please access and print out labs placed in Sakai 'Resources' folder. Labs will be uploaded the weekend before that week's lab.
R	9-Oct	A Brief History of Life & Primate Origins	5:128-133; 8:217-236	LAB Practical Exam I
<b>VIII. Primate Evolution</b>				
T	14-Oct	Primates of Modern Aspect		<b>LAB 6</b>
R	16-Oct	Miocene Apes		Primate Behavior & Evolution
<b>IX. Hominoids &amp; Hominids</b>				
T	21-Oct	Miocene Apes & Earliest Hominins	8:237-253; 10:277-288	<b>LAB 7</b>
R	23-Oct	Bipedalism	9:255-258; 271-275	Hominoid Evolution & Bipedalism
<b>on-line Quiz 4</b>				
<b>X. EXAM II / Hominin Origins</b>				
T	28-Oct	<b>EXAM II</b>		<b>LAB 8</b>
R	30-Oct	Australopiths	10:288-299	Australopiths and Early <i>Homo</i>
<b>XI. Australopiths and early <i>Homo</i></b>				
T	4-Nov	Early <i>Homo</i>	9:268-270; 10:299-305; 11:333-339	<b>LAB 9</b>
R	6-Nov	<i>Homo erectus</i> & Contemporaries	11:307-329	Transitional Hominins
<b>on-line Quiz 5</b>				
<b>XII. Out of Africa</b>				
T	11-Nov	NO CLASS - Veteran's Day		<b>** NO LABS **</b>
R	13-Nov	Genetics of Archaic & Modern Humans	12:354-361; 13:363-367	

**Date****Lecture****Reading****Lab**

Readings and on-line resources will be made available via Sakai on a weekly basis.

Please access and print out labs placed in Sakai 'Resources' folder. Labs will be uploaded the weekend before that week's lab.

**XIII. *Homo sapiens***

T 18-Nov

Transitional Hominins

12:341-354; 13:367-401

**LAB 10**

R 20-Nov

Modern Human Dispersals

14:403-431; 15:433-439

Modern Humans

**XIV. Human Adaptations**

T 25-Nov

Modern Human Adaptations

15:413-433

**\*\* NO LABS \*\***

R 27-Nov

NO CLASS - Thanksgiving

**on-line Quiz 6****XIV. The Human Condition**

T 2-Dec

Human Growth &amp; Development

16:441-467

**LAB**

R 4-Dec

The Human Condition

17:469-483

LAB Practical Exam II

**XV. EXAM III**

T 9-Dec

**EXAM III**