

**Course Schedule (\*\*\*This schedule is subject to change throughout the semester\*\*\*):**

<b>PART I: The Mechanics of Evolution and Basics of Human Diversity</b>			
<b>Module</b>	<b>Lecture Topics</b>	<b>Materials</b>	<b>Assignments</b>
I.1 T 1/12	<b>Syllabus Day!!</b>	Introductions, review of new Covid protocol, class expectations	* Zoo availability survey
R 1/14	<ul style="list-style-type: none"> <li>• Introduction to the course—What is biological anthropology?</li> <li>• Thinking about the past—how we understand “deep time,” the origins of evolutionary thought.</li> </ul>	<p><b><u>Read:</u></b></p> <ul style="list-style-type: none"> <li>• Introduction to Evolution</li> <li>• Macroevolution</li> <li>• Darwin’s Influence on Modern Thought</li> </ul>	<ul style="list-style-type: none"> <li>• Lab 1: The Scientific Method and Laboratory Techniques</li> <li>• Weekly comprehension Quiz</li> </ul>
I.2 T 1/19	<ul style="list-style-type: none"> <li>• Charles Darwin and Natural Selection</li> </ul>	<p><b><u>Read</u></b></p> <ul style="list-style-type: none"> <li>• Mendelian genetics</li> <li>• Importance of mutation</li> </ul>	<ul style="list-style-type: none"> <li>• HW 1: Video 1 questions</li> </ul>
R 1/21	<ul style="list-style-type: none"> <li>• Introduction to Mendelian genetics and Cell Biology</li> <li>• Mendelian genetics cont. and Population Genetics</li> </ul>	<p><b><u>Watch</u></b></p> <ul style="list-style-type: none"> <li>• Darwin’s Revolution (44:57)</li> <li>• DNA Structure and Replication (12:58)</li> </ul>	<ul style="list-style-type: none"> <li>• Lab 2: Mendelian Genetics</li> <li>• Weekly comprehension Quiz</li> </ul>
I.3 T 1/26	<ul style="list-style-type: none"> <li>• <b>Guest Speaker Father Paul Sterne</b>—A conversation on the intersections of church and science</li> </ul>	<p><b><u>Read:</u></b></p> <ul style="list-style-type: none"> <li>• Evolution is Change in Traits Over Time</li> <li>• Sexual Selection</li> <li>• TBD (assigned by Father Paul)</li> </ul>	<ul style="list-style-type: none"> <li>• HW 2: Discussion prep questions</li> </ul>
R 1/28	<ul style="list-style-type: none"> <li>• Macro-Evolutionary Forces and the Heterozygote Advantage</li> </ul>	<p><b><u>Watch:</u></b></p> <ul style="list-style-type: none"> <li>• DNA Structure and Replication (12:58)</li> <li>• Population Genetics: When Darwin Met Mendel (11:03)</li> </ul>	<ul style="list-style-type: none"> <li>• HW 3: Group project check</li> <li>• Weekly comprehension Quiz</li> </ul>

Module	Lecture Topics	Materials	Assignments
I.4 T 2/2  R 2/4	<ul style="list-style-type: none"> <li>• Modern Human Variation</li> <li>• Race, Biology, and Culture</li> </ul>	<p><b><u>Read:</u></b></p> <ul style="list-style-type: none"> <li>• Sexual Selection</li> <li>• What Genes Can't Do</li> <li>• Race is a Social Construct, Scientists Argue</li> </ul> <p><b><u>Watch:</u></b></p> <ul style="list-style-type: none"> <li>• Myth of the “Supermale” and the extra Y chromosome (4:14)</li> <li>• The biology of race in the absence of biological races (16:54)</li> <li>• NPR Podcast—Race and Opioids (5:48)</li> </ul>	<ul style="list-style-type: none"> <li>• Lab 3: The Human Skeleton</li> <li>• Weekly comprehension Quiz</li> </ul>
I.5 T 2/9  R 2/11	<ul style="list-style-type: none"> <li>• Systematics and Classification</li> <li>• Introduction to Primates</li> <li>• <b>GROUP PRESENTATIONS</b></li> </ul>	<p><b><u>Read</u></b></p> <ul style="list-style-type: none"> <li>• Reading a Phylogenetic Tree</li> <li>• Primate characteristics</li> </ul>	<ul style="list-style-type: none"> <li>• Lab 4: Primate Observation Techniques</li> <li>• Weekly comprehension Quiz</li> </ul>
<b>PART II: Primates, Our Closest Living Relatives</b>			
II.6 T 2/16  R 2/18	<ul style="list-style-type: none"> <li>• Primate taxonomy and characteristics</li> <li>• Primate Communication and Social Systems</li> <li>• Living Primates and Primate Behavior</li> <li>• Leakey's Angels: Famous Female Primatologists</li> </ul>	<p><b><u>Read:</u></b></p> <ul style="list-style-type: none"> <li>• Primate locomotion</li> <li>• Planet Without Apes</li> </ul> <p><b><u>Watch:</u></b></p> <ul style="list-style-type: none"> <li>• Jane Goodall Interview on 60 Minutes (13:08)</li> <li>• Jane Goodall Interview with John Oliver (5:58)</li> <li>• The Demon Primate (1:57)</li> </ul>	<ul style="list-style-type: none"> <li>• Lab 5: Primate Taxonomy</li> <li>• Zoo Tours**</li> <li>• Weekly comprehension Quiz</li> <li>• <b>EXAM 1 (in class on 2/16)</b></li> </ul>

Module	Lecture Topics	Materials	Assignments
II.7 T 2/23  R 2/25 (No class Wellness Day)	<ul style="list-style-type: none"> <li>• Primate biogeography and conservation</li> <li>• Primates as Pets? Zoos, research, and ethical considerations</li> <li>• A BRIEF Summary of Archaeological Methods</li> </ul>	<p><b><u>Read:</u></b></p> <ul style="list-style-type: none"> <li>• Primate speciation</li> <li>• Primate communication</li> </ul> <p><b><u>Watch:</u></b></p> <ul style="list-style-type: none"> <li>• Clever Monkeys (49:01)</li> <li>• True Facts: The Lemur (5:54)</li> <li>• True Facts: The Tarsier (2:14)</li> </ul>	<ul style="list-style-type: none"> <li>• Lab 6: Archaeological Techniques</li> <li>• HW 4: Video Questions</li> <li>• Weekly comprehension Quiz</li> </ul>
II.8 T 3/2  R 3/4	<ul style="list-style-type: none"> <li>• <b>*Possible* Skype with a primatologist</b></li> <li>• Fossil Primates</li> <li>• Geologic Time Scale</li> <li>• Relative and Absolute Dating</li> </ul>	<p><b><u>Read:</u></b></p> <ul style="list-style-type: none"> <li>• John Hawks—Fossil Apes</li> <li>• Dating Rocks and Fossils Using Geological Methods</li> </ul> <p><b><u>Watch:</u></b></p> <ul style="list-style-type: none"> <li>• A Brief History of Geologic Time (12:07)</li> <li>• From the Fall of Dinos to the Rise of Humans (13:00)</li> </ul>	<ul style="list-style-type: none"> <li>• Lab 7: Primate Evolution</li> <li>• HW 5: Skype prep questions</li> <li>• Weekly comprehension Quiz</li> </ul>
<b>PART III: Hominid Phylogenies—The Real Ancestry.com</b>			
III.9 T 3/9  R 3/11	<ul style="list-style-type: none"> <li>• Emergence of the Human Lineage</li> <li>• Bipedality and Early Human Morphology</li> <li>• The earliest human genera</li> </ul>	<p><b><u>Read:</u></b></p> <ul style="list-style-type: none"> <li>• Overview of Human Evolution</li> <li>• Evidence of Meat Eating by Early Humans</li> <li>• Becoming Human: The Evolution of Walking Upright</li> </ul> <p><b><u>Watch:</u></b></p> <ul style="list-style-type: none"> <li>• 7 Million Years of Human Evolution [Smithsonian Exhibit] (6:22)</li> <li>• When We First Walked (12:15)</li> <li>• Human Evolution: C. Course Big History (16:13)</li> </ul>	<ul style="list-style-type: none"> <li>• Lab 8: Hominid Locomotion</li> <li>• HW 6: Human Origins Website Research</li> <li>• <b>Project 2 (Primate Observations) Due</b></li> <li>• Weekly comprehension Quiz</li> </ul>

Module	Lecture Topics	Materials	Assignments
III.10 T 3/16  R 3/18	<ul style="list-style-type: none"> <li>• The earliest Hominins</li> <li>• Sahelanthropus tchadensis</li> <li>• Orrorin tugenensis</li> </ul>	<p><b><u>Read:</u></b></p> <ul style="list-style-type: none"> <li>• The Earliest Hominins: Sahelanthropus, Orrorin, and Ardipithecus</li> <li>• Sahelanthropus <i>tchadensis</i> (Smithsonian)</li> <li>• Orrorin <i>tugenensis</i> (Smithsonian)</li> </ul> <p><b><u>Watch:</u></b></p> <ul style="list-style-type: none"> <li>• The First Human (Evolution Documentary); Timeline—World History Documentaries (48:45)</li> </ul>	<ul style="list-style-type: none"> <li>• Lab 9: Ardipithecus <i>ramidus</i></li> <li>• HW 7 Video Questions</li> <li>• <b>EXAM 2 (in class)</b></li> <li>• Weekly comprehension Quiz</li> </ul>
III.11 T 3/23  R 3/25	<ul style="list-style-type: none"> <li>• Genus Australopithecus</li> <li>• Australopithecus vs. Paranthropus debate</li> <li>• Famous Fossils</li> </ul>	<p><b><u>Read:</u></b></p> <ul style="list-style-type: none"> <li>• Australopithecus and Kin</li> <li>• Lucy: A Marvelous Specimen</li> </ul> <p><b><u>Watch:</u></b></p> <ul style="list-style-type: none"> <li>• Banding Together to Survive (2:12)</li> <li>• Walking with Beasts (3:59)</li> <li>• When Humans Were Prey (9:51)</li> <li>• Walking with Lucy (1:58)</li> <li>• The Missing Link that Wasn't (10:16)</li> </ul>	<ul style="list-style-type: none"> <li>• Weekly comprehension Quiz</li> </ul>
III.12 T 3/30 (No class Wellness Day)  R 4/1	<ul style="list-style-type: none"> <li>• Characteristics of The Genus Homo</li> <li>• Homo erectus: One Species or Many?</li> <li>• Homo Floresiensis and island dwarfism</li> </ul>	<p><b><u>Read:</u></b></p> <ul style="list-style-type: none"> <li>• Homo erectus, our ancient ancestor</li> <li>• Who was Homo floresiensis? Facts about the Hobbit.</li> </ul> <p><b><u>Watch:</u></b></p> <ul style="list-style-type: none"> <li>• The Humans that Lived Before Us (12:21)</li> <li>• When we Tamed Fire (12:56)</li> <li>• Dawn of the Stone Age” (3:05)</li> <li>• The Hunting Man: Out of the Cradle” (3:13)</li> <li>• Homo naledi: Mysterious extinct human species” (5:10)</li> </ul>	<ul style="list-style-type: none"> <li>• Lab 10: The Genus Homo</li> <li>• HW 8: Final Project check-ins</li> <li>• Weekly comprehension Quiz</li> </ul>

Module	Lecture Topics	Materials	Assignments
III.13 T 4/6  R 4/8	<ul style="list-style-type: none"> <li>• Pleistocene Hominin Diversity</li> <li>• What About Neanderthals?</li> <li>• Recent Discoveries: The Denisovans</li> <li>• *Possible* Skype with Smithsonian researcher</li> </ul>	<p><b><u>Read:</u></b></p> <ul style="list-style-type: none"> <li>• Homo naledi: your most recently discovered human relative</li> <li>• Archaic Homo sapiens</li> <li>• Why Am I Denisovan?</li> </ul> <p><b><u>Watch:</u></b></p> <ul style="list-style-type: none"> <li>• What Neanderthal DNA is Doing to Your Genome (4:17)</li> <li>• Denisovans: Our Mysterious Cousins that Made Us Better” (7:00)</li> <li>• Neanderthals High Pitch Voice Theory</li> </ul>	<ul style="list-style-type: none"> <li>• Lab 11: The later Genus Homo</li> <li>• Weekly comprehension Quiz</li> </ul>
III.14 T 4/13  R 4/15	<ul style="list-style-type: none"> <li>• Behaviorally and Anatomically Modern Homo <i>sapiens</i></li> <li>• Peopling the Americas</li> <li>• Origins of Agriculture and Domestication</li> <li>• Rise of Civilizations</li> <li>• Final project presentations</li> </ul>	<p><b><u>Read:</u></b></p> <ul style="list-style-type: none"> <li>• The Extremely Fast Peopling of the Americas</li> <li>• The Knotty Question of When Humans Made the Americas.</li> </ul> <p><b><u>Watch:</u></b></p> <ul style="list-style-type: none"> <li>• When We Met Other Human Species</li> <li>• When We Took Over the World</li> <li>• Mankind: The Birth of All of Us, Story of Farming History</li> <li>• Mankind: The Story of Us All, Domesticating the Dog.</li> </ul>	<ul style="list-style-type: none"> <li>• Final Project: Hominin Fossil Digital Museum Exhibit</li> <li>• Weekly comprehension Quiz</li> </ul>
III.15 T 4/20  R 4/22	<b><u>CATCH UP</u></b>		
<p>Final exam is currently scheduled for Thursday, April 29 at 9:00 am for section H01, and at 12:30 pm for section H02 in Gambrell 412. You will have up to 2.5 hours to complete the exam. If the situation should change and online exams are required to be virtual, you will be able to take the exam at any time on April 29<sup>th</sup>.</p>			