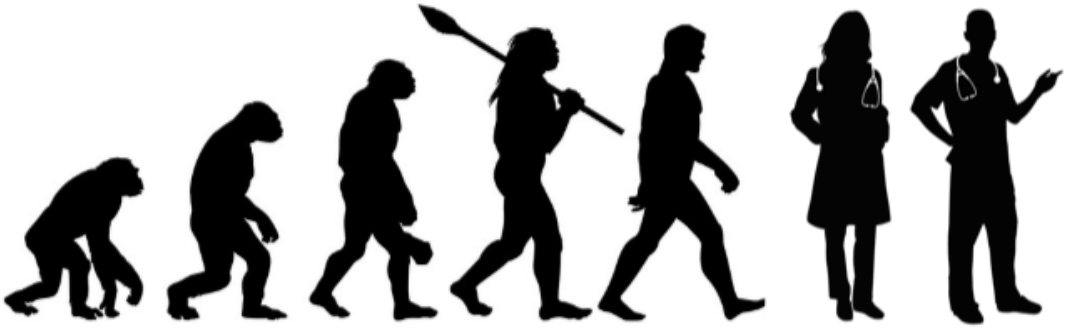
Human Evolution and Human Health (HEB 1386)

Spring 2019



Lectures: Tuesdays and Thursdays 10:30-11:45 a.m. in Haller Hall
Lab sections: (tentatively) Mondays 12:00-2:00 p.m. or Tuesdays 1:00-3:00 p.m. in MCZ 541
Instructor: Ian Wallace: Peabody 51C, email: iwallace@fas.harvard.edu
Teaching Fellow: Éamon Callison: Peabody 53F, email: wcallison@g.harvard.edu

Week 1	Jan 29 Jan 31	Introduction How evolution works	 Lieberman ch. 1; Conroy 89-93
Week 2	Feb 5 Feb 7	Evolution and health What does it mean to be an ape? ****Lab 0: Q&A (not required)**	Lieberman ch. 7 Conroy ch. 1; Boyd ch. 5 (PDF)
Week 3	Feb 12 Feb 14	Transition #1: The first hominins Bipedalism then and now ****Lab 1: Primate adaptations**	Lieberman 25-43; Conroy 204-209 Lieberman 44-47; Conroy 270-310
Week 4	Feb 19 Feb 21	Transition #2: Australopiths Hominin diets ****Lab 2: Learning from bones**	Lieberman ch. 3; Conroy ch. 6 & 7 Conroy ch. 2
Week 5	Feb 26 Feb 28	Transition #3: The human genus Evolution of hunting and gathering ****Lab 3: Locomotion and bipedalism**	Conroy 256-270 & 311-325 Lieberman ch. 4
Week 6	Mar 5 Mar 7	*Homo* and human athleticism Transition #4: Archaic humans ****Lab 4: Meet the ancestors, part 1**	Conroy ch. 9 & 10 Conroy ch. 11
Week 7	Mar 12 Mar 14	Midterm Life history and energy ****No lab**	 Lieberman ch. 5
Week 8		Spring break	
Week 9	Mar 26 Mar 28	Transition #5: Origin of modern humans No lecture ****Lab 5: Mismatch diseases**	Lieberman ch. 6
Week 10	Apr 2 Apr 4	Brains, language, and cultural evolution Hunter-gatherers and human diversity ****Lab 6: Energy 1, what goes in**	Conroy ch.12 & 13
Week 11	Apr 9 Apr 11	Transition #6: Agriculture Transition #7: Industrialization ****Lab 7: Energy 2, what comes out**	Lieberman ch. 8 Lieberman ch. 9
Week 12	Apr 16	Diseases of too much	Lieberman ch. 10

	Apr 18	Diseases of too little ****Lab 8: Energy 3, A day in the life at Harvard**	
Week 13	Apr 23 Apr 25	Heart disease and cancers Diseases of too new ****Lab 9: Meet the ancestors, part 2**	Lieberman ch. 12
Week 14	Apr 30	The future of human health ****Lab 5: Mismatch diseases DUE**	Lieberman ch. 13
Reading Week	May 2	Reading Week May 2-8	
	May 10	Final exam at 02:00 PM	

Assigned reading (all required and necessary for the course exams):
• Lieberman DE (2013) *The Story of the Human Body: Evolution, Health, and Disease*. New York: Pantheon.
• Conroy GC, Pontzer H (2012) *Reconstructing Human Origins: A Modern Synthesis*. New York: W. W. Norton.
• Any additional readings will be posted in PDF form on Canvas.
Required textbooks can be purchased at https://tinyurl.com/300-W19-HUMA-EVOL-1386-1

Requirements:
• Section participation and assignments (40%)
• Midterm (20%)
• Final (40%)

Policy on collaboration:
Discussion with your fellow students plays an integral role in the learning and processing of information presented in both lecture and lab. Students in HEB 1386 are therefore encouraged to engage in conversations and discussion with the course instructors and their classmates about their courses, their research, and even their assignments. However, after discussion, any work that you submit for evaluation must be the result of your own effort and must be submitted in your own words. To ensure the proper use of sources while at the same time recognizing and preserving the importance of the discussion and collaboration, the Faculty of Arts and Sciences adopted the following policy:

"It is expected that all homework assignments, projects, lab reports, papers, theses, and examinations and any other work submitted for academic credit will be the student's own. Students should always take great care to distinguish their own ideas and knowledge from information derived from sources. The term 'sources" includes not only primary and secondary material published in print or online, but also information and opinions gained directly from other people. Quotations must be placed properly within quotation marks and must be cited fully. In addition, all paraphrased material must be acknowledged completely. Whenever ideas or facts are derived from a student's reading and research or from a student's own writings, the sources must be indicated." (from Student Handbook)

Absences, late assignments, and missed tests:

Lab attendance is mandatory. If you cannot make your lab because of an emergency or Harvard-related event, please contact Éamon Callison (wcallison@g.harvard.edu) **before the lab you need to miss**. If you require an extension on an assignment because of an emergency or Harvard-related reason (e.g., for seniors with thesis deadlines) **you must ask for the extension in advance of the deadline**; otherwise, late assignments will be downgraded by one grade/day late. Missed tests cannot be made up unless you (a) arrange an alternative with Professor Wallace in advance, or (b) are ill and obtain proper University Health Services documentation.

Grading:
Grades are **not** determined by a strict curve, but will be evaluated in accordance with FAS policy as follows:

A: “excellent quality; full mastery of subject”
B: “good comprehension of course material; and good commandment of skills“
C: “adequate and satisfactory; basic requirements met”
D: “unsatisfactory with minimal commandment of material”