

Anthropology 3515 section 4C31

Human Evolutionary Anatomy

Fall 2019

TIME: MWF, period 3 (9:35 AM – 10:25 AM)

PLACE: TUR L005

INSTRUCTOR: David Daegling, B376 Turlington Hall 294-7603
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Office Hours: WF 10:30 – 11:30; W 1:00-2:00.

TEXTS: Cartmill, Shafland & Hylander, *Human Structure (HS)*, 1987, Harvard University Press, is required. Kapit & Elson's *The Anatomy Coloring Book (ACB)*, 2002 (4th ed., Harper & Row) is recommended. These books are available at the UF Bookstore. Supplements (*HEA*) are accessible through the course page on Canvas.

Course materials are accessed through Canvas: <http://lss.at.ufl.edu/>

COURSE OBJECTIVES: 1) survey regional and systemic human anatomy; 2) explore the embryological and historical basis for human structure; 3) evaluate the evolutionary significance of anatomical relationships and variations. In this course, you will learn how to use the facts of anatomy to understand human adaptation as well as how evolutionary and developmental processes have shaped the human body.

COURSE REQUIREMENTS: The sole grading criterion for the course is your performance on five closed-book midterm examinations (60% of the course grade), on-line quizzes (10%) and an open-book final examination (30% of the course grade). There are 1000 possible points in the course. Your point total (rounded to the next whole point) determines your final grade *without exception*. Breakdown of final grades is based on points as follows:

A 920 and above	B+ 840-879	C+ 720-759	D+ 600-639	E < 500
A- 880-919	B 800-839	C 680-719	D 550-599	
	B- 760-799	C- 640-679	D- 500-549	

Information on current UF policies for assigning grade points may be found at <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

OTHER POLICIES:

Cell phones and pagers must be turned off during class.

Attendance is not taken; however, lecture periods are the only time the material is formally covered and the instructor does not review lecture material outside of class.

Midterm examinations are administered during scheduled class times as outlined in the syllabus. All midterms are closed book format; no printed, written, verbal or electronic sources may be consulted during an examination. Exams missed for reasons other than illness or family emergency must be approved prior to the scheduled examination. Documentation for missed exams is required. Missed examinations are to be made up the final day of class (12/4) by arrangement with the instructor. Examinations may not be retaken. Online quizzes must be taken at specified times and may not be made up. The final examination is administered online during the final examination period; the final is an open-resource exam, but you may not communicate with any other individual during the exam with the exception of IT personnel in the case of technological issues. Failure to take the final will result in a score of zero.

Audio recording of lectures is permitted; visual recording in any form is not allowed.

Academic dishonesty in any form will not be tolerated and is subject to university policy (University of Florida Rules - 6C1-4 Student Affairs). 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 (<https://sccr.dso.ufl.edu/policies/student-honor-code-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 concerns, please consult with the instructor.

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, 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.

Students experiencing personal problems that are interfering with their academic performance are encouraged to contact the University Counseling Center at 301 Peabody Hall, 392-1575. <https://counseling.ufl.edu/services/>.

Students are expected to provide feedback on the quality of instruction in this course based on 10 criteria. These evaluations are conducted online at <https://evaluations.ufl.edu>. Students will be advised when evaluations are open toward the end of the semester. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results>

COURSE SCHEDULE

Date	Topic and Reading
8/21	Course mechanics, Approaches to anatomy (<i>HEA</i> : 1; <i>HS</i> : preface)
8/23	Anatomical terminology (<i>HEA</i> 2; <i>HS</i> : 215-218; <i>ACB</i> : 1-5; 21)
8/26	The vertebrate blueprint (<i>HEA</i> 3; <i>HS</i> : 3-15)
8/28	Axial skeleton (<i>HEA</i> 4; <i>HS</i> : 33-46; <i>ACB</i> : 19; 25-28)
8/30	Basic wiring: spinal nerves (<i>HEA</i> 5; <i>HS</i> : 15-17, 22-23, 30-31, 47-56; <i>ACB</i> : 13; 68-69; 77; 81; 84-86)
9/2	Labor Day: No Class
9/4	Evolution of the no-brainer (<i>HEA</i> 6; <i>HS</i> : 19, 24-26)
9/6	Autonomic innervation (<i>HEA</i> 6; <i>HS</i> : 48-50, 127-128, 155-159, 203-205, 427-428; <i>ACB</i> : 91-93)
9/9	Cranial nerves (<i>HEA</i> 7; <i>HS</i> : 345-353; <i>ACB</i> : 83)
9/11	Examination I (140 points)
9/13	Components of the body wall (<i>HEA</i> 8; <i>HS</i> : 31-32, 57-61, 63-66; <i>ACB</i> : 9-11; 15-16, 42-43)
9/16	Body wall of the trunk (<i>HEA</i> 8; <i>HS</i> : 67-78; <i>ACB</i> : 47-51)
9/18	Aortic arches and cardinal veins (<i>HEA</i> 9; <i>HS</i> : 81-93, 140-151; <i>ACB</i> : 101-102)
9/20	Breathing air (<i>HEA</i> 10; <i>HS</i> : 115-126; <i>ACB</i> : 131-133)
9/23	Arterial circulation (<i>HEA</i> 11; <i>HS</i> : 75-76, 106-109, 176-177, 199-202, 241-245, 273-275, 295-298, 319-321, 369-370, 418-420, 425-427; <i>ACB</i> : 104, 106-114)
9/25	Venous drainage and lymphatics (<i>HEA</i> 12; <i>HS</i> : 110-114, 152-153, 177-179, 202-203, 245-246, 370-371; <i>ACB</i> : 115-120)
9/27	Embryology of the coelom (<i>HEA</i> 13; <i>HS</i> : 18-20)
9/30	The gut and mesenteries (<i>HEA</i> 13; <i>HS</i> : 133-140, 151-152; <i>ACB</i> : 134-143)

- 10/2 Pelvis and perineum (*HEA* 15; *HS*: 180-205; *ACB*: 51)
- 10/4 Homecoming: No class
- 10/7 Urogenital embryology (*HEA* 14; *HS*: 160-179; *ACB*: 144-148; 155-160)
- 10/9 **Examination II** (150 points)
- 10/11 Head and neck embryology (*HEA* 16; *HS*: 341-345)
- 10/14 The skull (*HEA* 17; *HS*: 356-369; *ACB*: 22-23, 129)
- 10/16 Branchial muscles (*HEA* 18; *HS*: 402-412; *ACB*: 44-45)
- 10/18 Special senses (*HEA* 19; *HS*: 374-386; *ACB*: 94-99)
- 10/21 Functional anatomy of the neck (*HEA* 20; *HS*: 421-433; *ACB*: 46)
- 10/23 Pharyngeal gut; anatomy of speech (*HEA* 20; *HS*: 387-418; *ACB*: 135, 137)
- 10/25 **Examination III** (110 points)
- 10/28 Pectoral limb: embryology and evolution (*HEA* 21; *HS*: 209-218; *ACB*: 87)
- 10/30 Shoulder (*HEA* 22; *HS*: 219-236; *ACB*: 52-54)
- 11/1 Arm (*HEA* 22; *HS*: 236-241; *ACB*: 55)
- 11/4 Forearm (*HEA* 22; *HS*: 256-271; *ACB*: 56)
- 11/6 Hand (*HEA* 22; *HS*: 248-256; *ACB*: 57)
- 11/8 **Examination IV** (100 points)
- 11/11 Veteran's Day: No Class
- 11/13 Pelvic limb: embryology and evolution (*HEA* 23; *HS*: 276-280; *ACB*: 88)
- 11/15 Hip (*HEA* 24; *HS*: 280-289; *ACB*: 59)
- 11/18 Thigh (*HEA* 24; *HS*: 289-295; *ACB*: 60-62)
- 11/20 Leg and foot (*HEA* 24; *HS*: 299-319; *ACB*: 63-65)
- 11/22 Evolution of bipedalism (*HEA* 25; *HS*: 322-338)

11/25 **Examination V** (100 points)
11/27 Thanksgiving recess: no class
11/29 Thanksgiving recess: no class
12/2 Evolution and Comparative anatomy
12/4 Make-up examinations

Final Examination is administered online during examination week and must be completed before 5PM on Friday, 12/13/2019.