

Anthropology 3515 section 05B4

Human Evolutionary Anatomy

Fall 2011

TIME: MWF, period 2 (8:30 – 9:20 AM)

PLACE: FLG 0210

INSTRUCTOR: David Daegling, B376 Turlington Hall 392-2253 x 245
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Office Hours: MW 10:00 – 11:00 AM; W 2:00 – 3:00 PM.

TEXTS: Cartmill, Shafland & Hylander, *Human Structure (HS)*, 1987, Harvard University Press, is required. Kapit & Elson's *The Anatomy Coloring Book (ACB)*, 2002 (3rd ed., Harper & Row) is recommended. These books and a packet of lecture supplements (*HEA*) are available at Orange and Blue Textbooks (309 NW 13th St., 375-2707). Supplements are also accessible through e-learning.

COURSE MATERIALS ARE ACCESSED THROUGH e-learning in Sakai:

<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 four closed-book midterm examinations (60% of the course grade), on-line quizzes (10%) and an open-book final examination (30% of the course grade). Your total score on these exams, exercises and quizzes determines your final grade without exception. Breakdown of final grades is as follows: A 92-100%; A- 88-91%; B+ 84-87%; B 80-83%; B- 76-79%; C+ 72-75%; C 68-71%; C- 64-67%; D+ 60-63%; D 55-59%; D- 50-54%; E < 50%.

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 supply or post notes 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 absence from exams may be required. Missed examinations are to be made up the final day of class (12/7) by arrangement with the instructor. Examinations may not be retaken. The final examination must be taken during the final examination period; failure to take the final during this time will result in a score of zero. Tape recording of lectures is permitted; videotaping is forbidden. Academic dishonesty in any form will not be tolerated and is subject to university policy (University of Florida Rules - 6C1-4 Student Affairs), which includes provisions for expulsion from the university. Students requesting classroom accommodation must first register with the Dean of Students Office (DSO). The DSO will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation. Students experiencing personal problems that are interfering with their academic performance are encouraged to contact the University Counseling Center (301 Peabody Hall, 392-1575), Student Mental Health (Student Health Care Center, 392-1171), or Sexual Assault Recovery Services (Student Health Care Center, 392-1161).

COURSE SCHEDULE

Date	Topic and Reading
8/22	Anatomy as a science (HEA 1; HS : preface)
8/24	Anatomical terminology (HEA 2; HS : 215-218; ACB : 1-4; 23)
8/26	The vertebrate blueprint (HEA 3; HS : 3-15)
8/29	Axial skeleton (HEA 4; HS : 33-46; ACB : 21, 27-30)
8/31	Basic wiring: spinal nerves (HEA 5; HS : 15-17, 22-23, 30-31, 47-56; ACB : 70-71, 84-85, 90)
9/2	Evolution of the no-brainer (HEA 6; HS : 19, 24-26)
9/5	Labor Day: No Class
9/7	Autonomic innervation (HEA 6; HS : 48-50, 127-128, 155-159, 203-205, 427-428; ACB : 92-94)
9/9	Cranial nerves (HEA 7; HS : 345-353; ACB : 83)

9/12 **Examination I**

9/14 Components of the body wall (*HEA* 8; *HS*: 31-32, 57-61, 63-66; *ACB*: 17-19; 22, 44)

9/16 Body wall of the trunk (*HEA* 8; *HS*: 67-78; *ACB*: 49-52)

9/19 No Class

9/21 Aortic arches and cardinal veins (*HEA* 9; *HS*: 81-93, 140-151; *ACB*: 103, 170)

9/23 Breathing air (*HEA* 10; *HS*: 115-126; *ACB*: 105, 129, 135)

9/26 Arterial circulation (*HEA* 11; *HS*: 75-76, 106-109, 176-177, 199-202, 241-245, 273-275, 295-298, 319-321, 369-370, 418-420, 425-427; *ACB*: 102, 108-115)

9/28 Venous drainage and lymphatics (*HEA* 12; *HS*: 110-114, 152-153, 177-179, 202-203, 245-246, 370-371; *ACB*: 116-121)

9/30 Embryology of the coelom (*HEA* 13; *HS*: 18-20)

10/3 The gut and mesenteries (*HEA* 13; *HS*: 133-140, 151-152; *ACB*: 136, 140-145)

10/5 **Examination II**

10/7 Pelvis and perineum (*HEA* 15; *HS*: 180-205; *ACB*: 53)

10/10 Urogenital embryology (*HEA* 14; *HS*: 160-179; *ACB*: 146, 157, 160)

10/12 Head and neck embryology (*HEA* 16; *HS*: 341-345)

10/14 The skull (*HEA* 17; *HS*: 356-369; *ACB*: 24-25, 131)

10/17 Branchial muscles (*HEA* 18; *HS*: 402-412; *ACB*: 46-47)

10/19 Special senses (*HEA* 19; *HS*: 374-386; *ACB*: 95-98, 100)

10/21 Functional anatomy of the neck (*HEA* 20; *HS*: 421-433; *ACB*: 48)

10/24 Pharyngeal gut; anatomy of speech (*HEA* 20; *HS*: 387-418; *ACB*: 132, 139)

10/26 **Examination III**

10/28 Pectoral limb: embryology and evolution (*HEA* 21; *HS*: 209-218; *ACB*: 88)

10/31 Shoulder (*HEA* 22; *HS*: 219-236; *ACB*: 54-56)

11/2	Arm (<i>HEA</i> 22; <i>HS</i> : 236-241; <i>ACB</i> : 57)
11/4	Homecoming: No Class
11/7	Forearm (<i>HEA</i> 22; <i>HS</i> : 256-271; <i>ACB</i> : 57-58)
11/9	Hand (<i>HEA</i> 22; <i>HS</i> : 248-256; <i>ACB</i> : 59)
11/11	Veteran's Day: No Class
11/14	Pelvic limb: embryology and evolution (<i>HEA</i> 23; <i>HS</i> : 276-280; <i>ACB</i> : 89)
11/16	Hip (<i>HEA</i> 24; <i>HS</i> : 280-289; <i>ACB</i> : 61)
11/18	Thigh (<i>HEA</i> 24; <i>HS</i> : 289-295; <i>ACB</i> : 62-64)
11/21	Leg (<i>HEA</i> 24; <i>HS</i> : 299-311; <i>ACB</i> : 65-66)
11/23	History of anatomy (<i>HEA</i> 25)
11/25	Thanksgiving recess: no class
11/28	Foot (<i>HEA</i> 24; <i>HS</i> : 311-317; <i>ACB</i> : 67)
11/30	Evolution of bipedalism (<i>HEA</i> 26; <i>HS</i> : 322-338)
12/2	Examination IV
12/5	Evolution of anatomical novelties; Comparative anatomy
12/7	Make-up examinations

Final Examination is administered online during examination week (12/10 – 12/16).