

Biology 345&345L – Human Anatomy Lecture & Laboratory – Spring 2009

Lecture: TTh from 12:00 to 1:00 in 304 Albertson Hall
Lab: MW from 2:30 to 5:20 in 345/347 Albertson Hall
Instructor: S. Christopher Bennett, PhD
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Office Hours: 1:00-2:20 MW and by appointment.

Description: Detailed examination of the structure of the human body.

Lecture Text: *Essential Clinical Anatomy*, 2nd ed., Moore and Agur; supplemented by my *Anatomy Handbook*, available on my website.

Recommended: One of: *Grant's Atlas of Anatomy*, Agur and Lee; *McMinn's Color Atlas of Human Anatomy*, Abrahams, Marks, and Hutchings; *Color Atlas of Anatomy*, Rohen, Yokochi, and Lütjen-Drecoll; *[Thieme] Atlas of Anatomy*, Gilroy, McPherson, Lawrence, Ross, and Schuenke; *Anatomy: A Regional Atlas of the Human Body*, Clemente; and *Atlas of Human Anatomy*, Netter and Hansen.

Optional: *Essential Anatomy Dissector*, 2nd ed., Hansen.

Objectives: Upon successful completion of the course, you will be able to:

- Describe the structure of the skeletal system including its joints.
- Identify muscles of the skull, trunk, and extremities.
- Describe the structure of the heart and the pattern of blood vessels.
- Describe the pattern of nerves.
- Describe the structure of the respiratory system.
- Describe the structure of the digestive system.
- Describe the structure of the urinary system.
- Describe the structure of the reproductive system.

Grading: Lecture: There will be three exams more or less evenly spaced through the semester plus a fourth exam during final exam week. The fourth exam will not be comprehensive. Each exam is worth 100 points, and your final grade will be total points earned divided by 400.

Laboratory: There will be four practical examinations spaced more or less evenly through the semester, each on covering a major region of the body. Each practical exam is worth 100 points. There may be additional quizzes. Your final grade will be total points earned divided by the sum of 400 + any possible quiz points.

The grading scale is: A ≥ 90 > B ≥ 80 > C ≥ 70 > D ≥ 60 > U.

Attendance: Students should attend class and be on time; however, I understand that there may be illnesses or personal emergencies that may prevent you from attending class. In the event that a significant illness or emergency will cause you to miss an exam notify me before the missed exam or you may not be allowed to make up the exam. Make up exams, if allowed, must be taken promptly.

There will be an optional open lab for review in the evening shortly before each lab practical.

- Cheating: Cheating is not allowed. If I find convincing evidence that a student cheated, I will deal with the incident appropriately (i.e., sanctions may include verbal or written warning; lowering of grade for assignment/activity; failure of class assignment; lowering of term grade; and a written report to the Provost). For more info see: <http://web.fhsu.edu/universitycatalog/gen/academichonesty.asp>.
- Disabilities: Any student in this class who has a disability that may prevent them from fully demonstrating their abilities should contact me personally as soon as possible so we can discuss accommodations.
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Human Anatomy Lab Rules

1. Professional conduct is expected at all times when working in the Anatomy Lab; drinking and eating are not allowed. Treat the cadavers with respect at all times.
2. Gloves (either latex, nitrile, or vinyl) and lab coats, "scrubs", or similar protective clothes must be worn at all times when working with the cadavers. Do not wear sandals or open-toed shoes.
3. Keep the identifying ear and toe tags with the cadaver at all times.
4. Do not turn over the cadavers in the body bags. Doing so damages both the bags and the cadavers. To turn a cadaver, you should open the body bag and carefully manipulate the body. Take special care to move dissected upper extremities so that the brachial plexus and other structures are not damaged.
5. Cadavers and human bones are not allowed outside the laboratory rooms. Removal of any parts of the cadavers from the Anatomy Lab is against the law. Any student caught doing so will be dealt with appropriately.
6. Handle human bones very carefully; they are fragile and irreplaceable. Do not write on bones or models with pens or pencils, and do not touch bones or models with soiled gloves.
7. No unapproved visitors are allowed in the Anatomy Lab at any time.
8. No photographs may be taken of cadavers or anatomical specimens.
9. Clean up—at the end of each lab class:
 - Ensure that the cadavers are thoroughly sprayed with wetting solution and wrapped in moistened towels and plastic sheeting, and that the body bags are completely closed.
 - Ensure that all anatomical waste is placed in the biohazard bag at the dissecting table.
 - Clean and return all instruments.
 - Place all personal belongings in your lockers or take them with you when you leave—FHSU accepts no responsibility for personal belongings left in the Human Anatomy Lab.
10. Used scalpel blades must be disposed of in the red hazardous waste (i.e., sharps) container. Never put scalpel blades in the trash.
11. There is a first aid kit, eye wash station, fire extinguisher, and fire blanket at the sink near the door to Rm. 345. All accidents must be reported to the instructor immediately.
12. Do not touch or move any part of the cadavers, models, bones, etc. and their tags during lab practical examinations. Anyone doing so will be warned (e.g., "Do not touch anything!") and will lose (N-1) x 5 pts. for each touching incident.
13. Enjoy the music!

Biology 345 - Human Anatomy Lecture - Spring 2009 Tentative Schedule

Date	Topic	Pp. in <i>Ess. Clin. Anatomy</i>
Jan 15	Introduction; histology; osteology of hip and thigh	1-5; 314-320
20	Anterior & medial thigh; pelvic ligaments; lateral rotators	333-345
22	Gluteal Mm.; hamstrings; NAV of thigh; gluteal NAV	345-354
27	Osteology of leg and foot; plantarflexors; NAV of leg and foot	320-324; 354-371
29	Sole of foot; dorsum of foot; retinacula; cutaneous Vv	371-379
Feb 3	Osteology; arthrology; hip; knee; ankle;	10-20; 379-402
5	Osteology of shoulder and arm; superficial back; rotator cuff	406-410; 425-430
10	Deltoid region; Mm of pectoral region, Mm of arm	422-424; 431-436; 442-444
12	Exam 1	
17	Brachial plexus; NAV of arm	436-442; 444-449
19	Osteology of forearm and hand; flexors of forearm	410-414; 450-453
24	Extensors of forearm; NAV of forearm; hand	454-475
26	Carpal tunnel; joints and ligg of upper extremity	475-493
Mar 3	Integumentary system; mammary gland	5-10; 60-63
5	Exam 2	
10	Muscular system; osteology of vertebral column; ribs, sternum	20-26; 276-292; 52-55
12	Deep back; suboccipital region	294-301
16-20	Spring Break – <i>Don't go anywhere, stay home and hit the books hard!</i>	
24	Posterior triangle; spinal Nn of head and neck; skull osteology	593-604; 499-505
26	Anterior triangle; NAV of head and neck; facial Mm	605-616; 506-512
31	Orbit; tongue; temporal and masseteric regions	530-566
Apr 2	Nervous system; spinal cord	32-47; 301-310
7	Brain	524-530
9	Cranial Nn; Aa and Vv of brain; nose; ear	644-699; 572-588
14	Exam 3	
16	Thoracic & abdominal walls; cavities, and contents	64-70; 119-145
21	Respiratory system; heart	70-103
23	Great vessels of the heart; NAV of thorax	103-117
28	Lymphatic systems; NAV of abdomen	192-203
30	Digestive system; Urinary and endocrine systems	145-185
May 5	Pelvis and perineum	209-234
7	Reproductive systems	234-274
14	Final Exam - 12:00 -1:40	

Biology 345L - Human Anatomy Laboratory - Spring 2009 Tentative Schedule

Date	Topic	Pp. in <i>Ess. Anat. Dissector</i>
Jan 14	Introduction; anterior & medial thigh	xiii-xv; 91-97
19	Martin Luther King Jr. Day - no class	
21	Gluteal region	98-101
26	Back of thigh, popliteal fossa; posterior leg	102-104; 108-110
28	Anterior & lateral leg; dorsum of foot	104-108
Feb 2	Sole of foot; knee	111-119
4	Review Lower Extremity	
9	Lower Extremity Soft Structure Exam	
11	Superficial back; shoulder; posterior arm	79-84; 121-127; 131-132
16	Pectoral region; axilla	1-6; 128-131
18	Anterior arm; cubital fossa; flexors of forearm	132-137
23	Extensors of forearm & dorsum of hand	142-147
25	Palm of hand	138-142
Mar 2	Review Upper Extremity	
4	Upper Extremity Soft Structure Exam	
9	Intermediate and deep back; suboccipital region	85-87; 89-90
11	Posterior triangle of neck	151-156
16-20	Spring Break – <i>go to Florida and hang out at the beach all day; forget about school!</i>	
23	Anterior triangle of neck; root of neck	157-163
25	Face; orbit; parotid region	163-168; 175-183
30	Spinal cord; mouth & tongue; larynx	87-89; 202-208
Apr 1	Temporal region	183-188
6	Review Head and Neck	
8	Head and Neck Soft Structure Exam	
13	Intercostals; pleural cavity & lung; anterior abdominal wall	6-11; 23-31
15	Mediastinum & heart; peritoneum; celiac trunk & portal V.	12-22; 32-41
20	Sup. & Inf. mesenteric vessels; complete thorax	41-43
22	Posterior abdominal structures; iliac vessels	49-57
27	Pelvis & perineum	59-78
29	Complete previous dissections	
May 4	Review Thorax & Abdomen	
6	Thorax and Abdomen Soft Structure Exam	