

SUMMER 2014

Regional Human Anatomy HBA 561/540/461

Course instructors:

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Books:

Grant's Dissector 15th edition, by P.W. Tank: Lippincott Williams & Wilkins, 2012(*required*). Electronic version: <https://www.inkling.com/store/book/grants-dissector-patrick-tank-15th/>
In the lab, each table will be given a free copy of the dissector.

Netter's Atlas of Human Anatomy 6th edition, by F.H. Netter. Saunders, 2014. Also available as IpadApp.
or

Grant's Atlas of Human Anatomy 13th edition, by K.L. Moore, A.M. Agur & A.F. Dalley. Lippincott Williams & Wilkins, 2012. Electronic version: <https://www.inkling.com/store/book/grants-atlas-anatomy-anne-agur-arthur-dalley-13th/>

Older editions and other atlases (e.g., Clemente, Thieme) can be used instead. Students in the past have preferred Netter's over Grant's. Netter's has better illustrations, Grant's has fewer errors and pays more attention to variation (*an atlas is required!*). In the lab, each table will be given a free atlas copy.

Textbook recommendations: Depending on whether you like to learn from a comprehensive text or prefer a short, concise one, the following two are good choices:

Essential Clinical Anatomy 5th edition, by K.L. Moore, A.M. Agur & A.F. Dalley. Lippincott Williams & Wilkins, 2014. 712 pp (believe it or not – this is one of the shorter comprehensive anatomy texts ...).
Electronic version: <https://www.inkling.com/store/book/essential-clinical-anatomy-keith-moore-4th/>

Core Concepts in Anatomy 3rd edition, by J.T. Stern, Jr. © J.T. Stern (short and concise synopsis and review book). 272 pp. This book can be purchased (\$20.00) from the Department of Anatomical Sciences (Main office in HSC L8, room 40) during office hours or in the Anatomy Lab Office (HSC L2, room 132) during orientation. The book is also available in electronic format (\$9.95) at <http://www.scribd.com/doc/100441727/Core-Concepts-in-Anatomy-3rd-Edition>

Note: If you buy the printed copy, you will get free access to the electronic version. The electronic version has color figures.

Lab Supplies: We will provide used dissection tools at the beginning of class and scalpel blades throughout the course w/o charge.

The Atlas, Textbook (Essential) and Dissector, can be purchased in the Health Sciences Center Bookstore (HSC L2).

Lab coat, scrubs, gloves:

A limited supply of used scrubs and lab coats will be made available w/o charge during orientation in the Anatomy Lab Office, (HSC L2, room 132). Gloves can be purchased in the Anatomy Lab Office throughout the course at \$10.00 per box of 100. These protective items are strongly recommended!

Web page:

Additional resources (e.g., powerpoint presentations with all lecture slides, radiology images, brain atlas, handouts, old tests) can be accessed on the class webpage: <http://www.anat.stonybrook.edu/SHTM/index.html>
This page also has links to a number of other useful electronic resources, e.g.:

Body Online: Two second-year medical students here at Stony Brook University constructed this web site of excellent projection photographs and videos that may help you in previewing or reviewing your own dissections: <http://www.thebodyonline.net/>

Dissection videos: The University of Wisconsin Anatomy Dept. has posted streaming videos of dissections on a web site at <https://videos.med.wisc.edu/events/65/videos/> Note that these dissections are not always identical to the approaches we take in the lab.

You can contact your program or the course director (brigitte.demes@stonybrook.edu) for obtaining the *password* to access protected files on the class page prior to the start of class.

Bone boxes:

Each pair of students can check out a bone box containing a skull or hemi-skull and one-half of a postcranial skeleton at the beginning of the course in the Anatomy Lab Office. The bone boxes may be taken home for the purpose of study. Bone boxes must be returned at the end of the course. Please treat these bones, in particular the delicate skull bones, with the utmost care so that they remain valuable study materials for students in the future. This material is very costly to replace. Do not mark the bones with chalk, ink, pencil or anything else. Use pipe-cleaners (provided), *not probes or pencils*, to explore openings in the skull.

How to study:

Read the assigned pages in the dissector (most important!) and the relevant chapters in the textbook(s) prior to coming to class. The Essential Clinical Anatomy textbook offers extensive clinical information (blue boxes). These are interesting to read, nicely supplement and reinforce the anatomical information, and help you understand why it is so important for health care professionals to know the anatomy of the human body. Clinical Sidelights to Core Concepts are available (free) on the internet:

<http://www.anat.stonybrook.edu/HBA531/ClinicalSidelights.html>

However, *unless covered in lecture*, the examinations will not have clinical questions.

Class hours:

The class will meet Monday through Thursday from 1 p.m. to 5 p.m. and Friday from 8 a.m. to 12 noon. The first class will be on Tuesday, June 24th, at 1 p.m., Lecture Hall 2. The final exam will take place at 1 pm on Tues August 19th. There will be three practice quizzes at 10am on Wed 7/2 (module 1), Tues 7/22 (module 2), and Tues 8/12 (module 3).

PLEASE BRING ALL LABORATORY EQUIPMENT ON THE FIRST DAY AND BE PREPARED TO BEGIN DISSECTION. NOTE THAT READINGS FOR June 24th SHOULD BE DONE BEFORE COMING TO CLASS (Dissector pages 1 –14, Textbook introductory chapters and “back”).

How you will be tested:

Quizzes:

There will be a short quiz midway through each module (note the am dates in the syllabus below!). Quizzes consist of a written part, with 15 multiple choice questions. The second part will be a laboratory examination and will consist of identifying approximately 25 structures pinned or tagged on various cadavers and radiographic images. We will provide you with a key for the written part. The practical part will be graded by us and returned to you the next day. The questions on the quizzes will be of the same nature and degree of difficulty as those given on the examination at the end of each module. The laboratory exam will cover all dissections which should have been completed by the time it is administered.

Quizzes are important because they give you an idea of the nature and degree of difficulty of the questions on the examination for each module. They are also designed to encourage you to pace your learning properly instead of waiting until the end of the module before beginning to study in earnest -- a tactic which experience indicates can seriously imperil a student's chances of successfully completing the course.

Examinations:

There will be an examination at the end of each module. It will be in two parts -- a written one consisting of 50 multiple choice questions and a practical one consisting of the identification of approximately 70 structures pinned or tagged on cadavers and radiographic images. The final examination is cumulative and will contain questions pertaining to all material covered throughout the entire course. Approximately 75% of all final exam questions will pertain to material of the third module; 25% of the final exam will cover material in modules I and II. Faculty and TAs will offer review sessions prior to each exam.

How your final grades will be computed:

Your final grades will be determined by the scores on the three examinations. The quizzes are practice exams and do not count in the grades. We will give you numerical grades after each examination and letter grades for the course. The cut-offs for the letter grades will be different for graduate students (HBA 561/540) and undergraduate students (HBA 461).

HBA 561/540: A = 90 %, B = 80 %, C = 70 %, D = 60 %

HBA 461: A = 85 %, B = 75 %, C = 65 %, D = 55 %

If we curve, we'll only do it to your advantage; i.e., we do *not* raise the standards for grades, but we *may* consider lowering them.

Academic dishonesty:

Outside of examinations and quizzes you are encouraged to collaborate in dissection and study of the course material. However, *during quizzes and exams* you may not look at answers written or chosen by another student, communicate with another student with information that might help in answering an examination question, refer to notes or texts related to the examination subject material, use any other aid not explicitly permitted by the instructors, communicate specific information regarding an examination to a classmate who has not yet completed that examination. You are not allowed to touch structures pinned in the lab exams.

Cadaver policy:

Out of respect for the generous body donations that are bestowed upon the anatomy department in furtherance of your professional and educational development, professional behavior is required at all times in the anatomy laboratory. Departmental policy is as follows:

“Individuals who donate their bodies to the Department of Anatomical Sciences at Stony Brook University do so with the desire and understanding that their remains will be used for educational or scientific purposes. Such donations deserve our admiration and deepest gratitude. To treat a cadaver in any way that does not serve educational or scientific purposes constitutes unprofessional behavior. One example is taking photographs (on film or electronically) that serve no educational or scientific purpose. Any student known to have taken such a photograph will be referred to the Committee on Academic Standing as having engaged in unprofessional behavior.”

Anatomy laboratory rules of conduct:

You are part of a team! You benefit from the dissections and knowledge of your classmates, but YOU also must contribute to the learning experience of others in the class. One important aspect of dissection-centered study is gaining an appreciation for the breadth of anatomical variation. As you walk around towards the end of the class (AFTER finishing your own dissections so that others will be able to learn from your work), you must treat the dissections done by your class mates with consideration and respect. Do not move body parts away from their respective tables! Do not dissect their cadavers! Do not allow their dissections to dry out! Finally, do not disrupt other groups while they are engaged in their study sessions! Observe, but do not interfere! Return bones and models to the tables in the front of the lab so that they are available to everyone! You are encouraged to come to the lab outside official class hours for review. The same rules apply then.

**HBA 561/540/461
HUMAN ANATOMY 2014**

MODULE 1: THORAX, ABDOMEN, PELVIS, PERINEUM

Day	Date	Topic	Lab Assignment Dissector (15th ed.)
Tues	6/24	Introduction, Back	1-14; skip suboccipital region
Wed	6/25	Spinal Cord, Peripheral Nervous System	15-19
Thur	6/26	Pectoral Region, Thoracic Wall	21 -22; skip skinning of arm and forearm; 26-30, 63-66;
*Fri	6/27	Pleural Cavities, Lungs	66 – 72; skip ID of bronchopulmonary segments
Mon	6/30	Middle Mediastinum, Heart	72 - 82
Tues	7/1	Superior and Posterior Mediastinum	82 - 87
Wed	7/2	QUIZ I at 10 am Abdominal Wall, Inguinal Region	all: 89 – 98; males: scrotum 129 - 131
Thur	7/3	Abdomen I	98 - 107
*Fri	7/4	No class	
Mon	7/7	Abdomen II	107 - 116; skip opening of gut tube with the exception of the duodenum
Tues	7/8	Posterior Abdominal Viscera and Wall; Diaphragm	116 - 124
Wed	7/9	Perineum and Pelvis I	all:125 – 127; skip anal triangle; male: 132 - 137; female: 148 - 152; all: split pelvis in preparation for tomorrow's dissection; follow handout on how to split the pelvis (don't follow dissector here!)
Thur	7/10	Pelvis II	male: 137 - 147; female: 152 - 163
*Fri	7/11	REVIEW	
Mon	7/14	EXAM I	

*AM Class

**HBA 561/540/461
HUMAN ANATOMY**

MODULE 2: HEAD AND NECK

Day	Date	Topic	Lab Assignment Dissector (15th ed.)
Tues	7/15	Superficial Face, Scalp	219 – 229; prepare for craniotomies: reflect scalp
Wed	7/16	Cranial Cavity	235 - 245; skip occipital wedge; skip gross anatomy and blood vessels of brain; place brains into buckets with alcohol (provided)
Thur	7/17	CNS I	240 – 241 and Handout
*Fri	7/18	CNS II	Handout
Mon	7/21	Orbit/Ear	245 – 252; skip removal of eyeball; ear dissection optional: 274 - 278
Tues	7/22	QUIZ II at 10 am Neck – Posterior Triangle, Muscular Triangle	205 – 210; start anterior triangle: muscular triangle
Wed	7/23	Neck – Anterior Triangle	210 - 218
Thur	7/24	Deep Face, Temporal Region	230 - 235
*Fri	7/25	Disarticulation of Head, Pharynx, Deep Neck	252 – 257; skip cutting occipital wedge; we'll get you started differently
Mon	7/28	Bisection of Head, Nasal Cavity, Inside of Pharynx, Palate	257 - 268
Tues	7/29	Oral Cavity, Larynx	268 - 274
Wed	7/30	Review	
Thur	7/31	EXAM II	

* AM class

**HBA 561/540/461
HUMAN ANATOMY**

MODULE 3: LIMBS

Day	Date	Topic	Lab Assignment Dissector (15th ed.)
*Fri	8/1	No class (prepare for limbs ...)	
Mon	8/4	Upper Limb Intro, Movements and Muscle Function, Scapular Region,	21 – 26; review Pectoral Region
Tues	8/5	Axilla, Brachial Plexus	30 - 34
Wed	8/6	Arm, Cubital Fossa	34 - 40
Thur	8/7	Forearm, Dorsum of Hand	40 – 46; 53 - 57
*Fri	8/8	Palm of Hand	46 - 53
Mon	8/11	Lower Limb Intro, Anterior/Medial Thigh	165 – 176; don't skin foot
Tues	8/12	Quiz III at 10 am Gluteal Region, Posterior Thigh, Popliteal Fossa	176 - 184
Wed	8/13	Leg, Dorsum of Foot	skin foot; 184 - 193
Thur	8/14	Sole of Foot	193 - 198
*Fri	8/15	Joints	57 – 62; 198 – 203; we only dissect shoulder, elbow, knee and ankle joints
Mon	8/18	Review	
Tues	8/19	EXAM III	

*AM class