

Course Information Packet

Biology 455 — Cadaver Dissection

Fall Term 2003—2004 Academic Year

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Required Texts: None required for this course. However, an excellent atlas is highly recommended. The atlas listed below may be obtained in the Runestone Bookstore:

“Atlas of Human Anatomy” (2nd edition) by Frank H. Netter.
(1997) East Hanover, N.J.: Novartis Publishing.

Course Objectives: For each region of the body studied the student will develop:

- An advanced 3-dimensional understanding of anatomical relationships
- An understanding of anatomical variations
- An advanced understanding of anatomical material
- Significantly improved dissection skills

Course Assumptions: This course is conducted with several key assumptions:

1. It is assumed that you enter this course with an excellent understanding of human anatomy. Because of this assumption, and because of the teaching style that will be employed in this course no questions will be answered that a student with a fundamental understanding of human anatomy should know. Therefore, it is highly recommended that you review your human anatomy for the region of the body you will be responsible for.
2. The class will be divided into working pairs of students. Both of you are expected to work simultaneously on the cadaver, and to do an equal amount of work on the dissection. Since you will both be graded on the quality of your dissection (see grading below) it is important for both of you to work on the cadaver together at all times.
3. In order to facilitate one-on-one help with dissection and the learning of the material you will be expected to come to your assigned class time. You may want to (or need to) come in for additional work. However, you may not

work on the cadaver without notifying me, and without me being present in the building. Should you need to come in for additional work check with me regarding my availability.

4. There is no required text for this class. However, you will need to do a large amount of reading from one or more high quality anatomy texts, and you need to start doing this reading prior to any significant dissection. In addition, it is assumed that you will have access to a high quality anatomy atlas to facilitate your work. Should you decide to bring this text into the dissection lab be aware of the fact that the text will probably have to be discarded at the conclusion of the course.

Grades: Your grading will be based upon the following factors:

1. Quality of dissection. This is worth 50% of your final grade.
2. Oral exam on dissected area. This is worth 50% of your final grade. You will be responsible for all anatomical structures in your area of dissection. This includes skeletal anatomy, (so it would be wise to review the appropriate skeletal elements found in the anatomy lab); muscular origin, insertion, action and innervation; vasculature; nervous tissue; anatomical relationships.

Access to the Cadaver Room and General Safety Instructions:

1. Anatomy labs and cadaver labs will be running simultaneously fall term. Therefore, if you know you will be needing specific help, (a) notify me a day in advance and (b) get down to the cadaver lab early, and we can work prior to the start of the anatomy lab.
2. Cadaver lab works just like any other lab, so all laboratory safety rules will be in affect.
3. A lab coat is required. Wearing of scrubs or old clothes under the lab coat is also recommended.
4. Gloves are required, and they will be provided.
5. All necessary dissection equipment will be provided.
6. Body parts: All body parts (skin, adipose tissue, connective tissue etc.) that is removed from the cadavers must be placed in plastic zip-lock "bits bags" and stored with the cadaver in the body bag. No body parts are to be discarded into the garbage.

References available in my office: The following texts are available in my office. However, they must be signed out and returned within 24 hours, unless prior arrangements are made.

Abrahams, Ph.D., R.T. Hutchings & S.C. Marks, Jr.. *McMinn's Colour Atlas of Human Anatomy* (4'th ed.). Philadelphia: Mosby Publishing, 1998.

Bannister, L.H. et al. (eds). *Gray's Anatomy. The Anatomical Basis of Medicine and Surgery.* (38'th ed.). New York: Churchill Livingstone, 1995.

Clemente, C.D. *Anatomy. A Regional Atlas of the Human Body* (3'rd ed.). Baltimore: Urban & Schwarzenberg; 1987.

Jenkins, D.B. *Hollinshead's Functional Anatomy of the Limbs and Back.* (8'th ed.) Philadelphia: W.B. Saunders; 2002.

McMinn, R.M.H. & R.T. Hutchings. *Color Atlas of Human Anatomy.* (2'nd ed.). Chicago: Year Book Medical Publishers; 1988.

Moore, K.L. & A.F. Dalley. *Clinically Oriented Anatomy* (4'th ed.). Philadelphia: Lippincott, Williams & Wilkins; 1999.

Pratt, N.E. *Clinical Musculoskeletal Anatomy.* Philadelphia: Lippincott; 1991.

Putz, R. & R. Pabst (eds). *Sobotta's Atlas of Human Anatomy. Vol. 1: Head, Neck, Upper Limb* (13'th ed.). Philadelphia: Lippincott, Williams & Wilkins; 2000

Putz, R. & R. Pabst (eds). *Sobotta's Atlas of Human Anatomy. Vol. 2: Head, Neck, Upper Limb* (13'th ed.). Philadelphia: Lippincott, Williams & Wilkins; 2000

Rohen, J.W. & C. Yokochi. *Color Atlas of Anatomy. A Photographic Study of the Human Body.* New York: Igaku-Shoin, 1993.

Rosse, C. & P. Gaddum-Rosse. *Hollinshead's Textbook of Anatomy* (5'th ed.). Philadelphia: Lippincott-Raven Publishers; 1997

Slaby, F.J., S.K. McCune & R.W. Summers. *Gross Anatomy in the Practice of Medicine.* Philadelphia: Lea & Febiger; 1994.

Snell, R.S. *Clinical Anatomy for Medical Students.* Philadelphia: Lippincott, Williams & Wilkins; 2000.