



## LABORATORY INFORMATION

The lab is a necessary adjunct to the lecture. It is designed to give students a practical, three-dimensional view of anatomy in a collaborative learning environment. Lab subject matter coincides as nearly as possible with lecture material. Each lab session (except the first lab) is based on the prior week's lectures. Lab sessions begin with a visual quiz. The quiz will test students primarily on the material they will study in that lab. This form of testing; that is, testing at the beginning of the lab on material that you will study in the lab encourages you to come to lab prepared. Experience shows that students who come prepared to lab, learn the anatomy and excel in the course. Therefore, the quiz serves as motivation to help you prepare for lab. **You must attend and take the quizzes in your assigned lab section.** The quizzes are an important part of your grade. Also, students who do well on the quizzes usually do well on the laboratory practical examination. Efficiently utilize your time in lab; the lab will be open for student use only at the times indicated on the schedule. ***I cannot stress enough the importance of coming to lab prepared to participate and learn. This requires that you study the prior week's lecture material in advance of the lab session. The lab manual will guide your study in preparation for the lab. Past students emphasize that the lab is one of the most critical aspects to performing well in the course. This alone could make or break your anatomy experience.***

### Textbook

*Human Anatomy Lab Manual* by Mark Nielsen. The lab manual is available as a PDF download on the courses website. It will provide you with the necessary instructions and guidelines to prepare for and make the most out of the laboratory experience. In addition the *Lecture Manual* and the *Workbook and Study Guide* will have materials that you will use as you prepare for the lab. The pelvis model that will be required as a portion of the lab grade is included in the back of the *Human Anatomy Workbook and Study Guide*. The *Human Anatomy Interactive Atlas* by Shawn Miller and Mark Nielsen, which you will download from the web, is required for the lab. Assigned pictures from this software program will be used as the basis for quiz material each week. Familiarizing yourself with these cadaver photos will help you prepare for the laboratory and they can serve as a valuable reference after the lab to review the things you studied during the lab period. In addition, the *Real Anatomy* software on WileyPlus is also a great resource for studying the lab material.

### Required Materials

In the lab you will handle cadaver parts. The cadavers are maintained in a dilute 2-phenoxyethanol solution (5 parts chemical to 95 parts water). This is an odorless wetting agent and preservative. Handling the cadavers is an extremely important aspect of the lab. It is difficult to learn anatomy if you are afraid to touch and manipulate the cadavers. Cadaver study is probably the most powerful tool for learning anatomy, so get involved and explore the cadavers. You may purchase latex gloves at the bookstore.

### Weekly Quizzes

At the beginning of each lab session you will take a five-point quiz comprised of ten questions. The quiz is primarily based on material that you will study during that day's lab, as well as some review questions from past labs. Quizzing you on material you have yet to see in the lab helps motivate you to come to lab prepared, while review questions from the past labs help to solidify your knowledge. This maximizes learning. You will be exposed to the lab material in the previous week's lectures, so it will not be completely unfamiliar to you. The quiz will consist of photographic cadaver slides being projected on a screen, while a lab teaching assistant points to selected structures and asks the students to identify them. The slides are all pictures from the *Human Anatomy Interactive Atlas Software*. The pictures to study for the quiz are listed in the lab manual. By studying the previous week's lectures and the selected pictures you will come to lab well prepared for the quiz, and more importantly you will be prepared to learn the material presented in the lab. There will be 11 quizzes worth 5 points each for a total of 55 points.

### Practical Examinations

Practical examinations are hands-on exams using the cadaver parts in the laboratory. Structures on the cadavers will be labeled with strings and probes and you will be asked to identify the labeled structures. There will be four practical exams throughout the semester. These will include two practical quizzes on the bones worth five points each, a midterm practical quiz on the cadavers worth ten points, and a final practical examination given in the final lab session worth 70 points. You will have two hours to complete the final practical examination. There will also be practice practical exams in some of the labs to help you prepare for this type of test. In addition to helping you prepare for the quizzes each week in the lab, the *Human Anatomy Interactive Atlas Software* will be a valuable tool in helping you prepare for the final practical examination in the laboratory. *Real Anatomy 2.0* in WileyPlus is outstanding study aid for the final practical exam and it is to your advantage to use it.