

BIOL 2325 Human Anatomy Laboratory
Fall Semester 2005 – 1 credit
Southern Utah University

Instructor: Dr. Rachel Smetanka
Office: Science Center 117
Email / Voicemail: smetanka@suu.edu /586-7926 (email preferred mode of communication)
Office Hours: Monday/Wednesday 2:30-4:30, Thursday 12:30-2, or by appointment

Meetings: Section 03: Thursday 5:30 – 6:50 pm; SC 125
Section 04: Thursday 4:00 – 5:20 pm; SC 125
Section 05: Monday 6:30 – 7:50 pm; SC 125
Section 06: Wednesday 6:30 – 7:50 pm, SC 124
Section 07: Wednesday 6:30 – 7:50 pm SC 125

Required Readings: All Lab activities will be posted in advance on WebCT. Please print them and read them before you come to lab so you will be prepared for the week's activity. You are responsible for bring the week's posted activity with you to lab. Lab is only one hour and twenty minutes per week, so you will need to use your lab time as efficiently as possible. Part of that efficiency means coming to lab prepared. These are not novels, so please take the time to read them before you come to class.

Optional Material: *Anatomy Coloring Workbook*; Alcamo (Princeton Review Series)

Course Description: This laboratory course accompanies BIOL2320 (Anatomy lecture) and is designed to reinforce material that you learn in lecture. You are expected to learn anatomical relationships and identify structures using figures, models, microscope slides, cadaver observation, selected organ dissection, and anatomy computer software. These resources will allow you to view structures and relationships in several dimensions. These same resources will be used for laboratory exams, so please be sure to observe assigned structures on all available resources.

On-Line Information: Via WebCT. WebCT will be used extensively in this course. Exam practical dates, homework assignments, pre-lab activities and quizzes, and grades can be found by checking WebCT on a regular basis. Announcements about readings and schedule changes will be posted regularly.

General Course Policies: Students are expected to attend all laboratory meetings. In extremem cases, students will be allowed to make up laboratory activities during another lab section. This needs to be improved by both lab instructors and arranged in advance. Instructor is available during posted office hours and by appointment. A certificate signed by a certified medical doctor or a documented family emergency are the ONLY acceptable excuses for missing an exam, unless prior arrangements are made.

Your Responsibilities as a Student:

- *Be courteous! Show up to class on time and turn off cell phones, pagers etc. during class.*
- *Academic dishonesty will not be tolerated.* You are expected to have read and understood the current student handbook (published by Student Services) regarding student responsibilities for information about what constitutes acceptable on-campus behavior. All exams and assignment requirements must be completed independently. Any plagiarism of materials used to complete assignments will not be tolerated. If you have been determined to be dishonest in your completion of any of the course requirements, you will receive a zero for that work and depending on the extent of the dishonesty, may fail the course and may receive further action from the university.

Grading:	Lab Exams:	(2 x 100 pt)	200 points
	Quizzes (in class and online):	(10 x 15 pt)	150 points
	Other Assignments:	(5 x 30 pt)	150 points
			~ 500 points

There will be 2 practical lab exams each worth 100 points each. There will also be a weekly quiz either taken in lecture or assigned on WebCT except during those weeks which contain a lecture exam or Thanksgiving Break. The 1 lowest quiz score can be dropped or a student can elect not to take one quiz and have all completed quizzes count toward total points possible for the course. The remainder of your grade will be determined by various other assignments and activities. You will not have an assignment each week, you are expected to use the lab time to identify structures, reinforce material covered in lecture, and prepare for quizzes and exams. Because you will not have weekly assignments or lab reports, **you will have to be responsible** for covering all information and identifying all structures that are expected of each system.

Grades will be assigned based on the following scale:

A= 93.34-100%	C= 73.34-76.66%
A-= 90-93.33%	C-= 70-73.33%
B+= 86.67-89.99%	D+= 66.67-69.9%
B= 83.34-86.66%	D= 63.34-66.66%
B-= 80-83.33%	D-= 60-63.3%
C+= 76.67-79.99%	F= less than 60%

Exam Schedule: (put these on your calendars NOW!!):

All Lab Exams Given at regular lab meeting time.

Lab Exam 1: Your lab meeting time during the week beginning October 17th.

Lab Exam 2: Your lab meeting time during Finals Week. This exam will be cumulative.

American Disabilities Act Statement: Students with medical, psychological, learning, or other disabilities desiring academic adjustments, accommodations, or auxiliary aids will need to contact the Southern Utah University Coordinator of Services for Students with Disabilities (SSD) in Room 206F of the Sharwan Smith Center, phone (435) 865-8022. SSD determines eligibility for and authorizes the provision of services.

It is the student's responsibility to provide documentation from the Office of Disability Services to the lecture instructor to ensure that appropriate arrangements are made.

GOALS AND OBJECTIVES FOR THE COURSE:

GOAL 1: Provide a conceptual background in the organismal biology of vertebrates with specialization in the anatomy of humans.

Objectives: By providing instruction in human anatomy, students will:

A. develop an understanding of the relation between structure and function in organismal vertebrate biology. These principles will be applied to an understanding of the regions and systems of the human body.

B. understand the regional variation present within the human body by examining the organization of the skeletal, muscular, nervous, gut, urogenital, circulatory, and integumentary systems in each region (abdomen, thorax, pelvis, perineum, head, neck, and limbs).

Goal 2: Foster the development of problem-solving skills and critical thinking in the study of human form and function.

Objectives: By providing lecture and laboratory instruction in human anatomy, students will:

- A. gain proficiency in the analysis and interpretation of two and three-dimensional images of the human body from various planes of view. Skills include regional and structural identification, comparison, and interpretation using prosected cadavers and cross-sectional images.
- B. be able to interpret variable or anomalous structural patterns. Since these patterns are quite common, analytical skills must include an awareness of the degree of variation in human morphology and its relevance to understanding human structure and function.

Goal 3: Provide an appropriate foundation in human structure and function for future activities.

Objectives: This course will provide:

- A. introductory level background for those students interested in pre-professional and health science programs.
- B. basic information necessary for those students interested in teaching at the pre-college level.
- C. basic information important for informed decision making as a citizen and/or employee in biologically related programs that impact on human health and human biology.

Goal 4: Present human anatomy as a dynamic science that involves divergent conceptual and theoretical interpretations.

Objective: This course will provide a historical perspective of the explanation of human structure and function in science and medicine.

Goal 5: Develop an integrated understanding and appreciation of human form as a reflection of our own biology and interaction in the environment.

Objective: Lectures and Laboratory experiences in this course will foster awareness of human anatomy as a study of “self”. In addition to being a source of individual expression, human anatomy is an ongoing scientific endeavor with many developmental, evolutionary, and functional questions that are still unresolved and poorly understood.

Goal 6: Develop communication skills.

Objectives: Student participation in lecture and laboratory will enhance skills by:

- A. having students self-organize small learning and discussion group activities in each laboratory.
- B. expecting students to respond to short essay questions on examinations.

Goal 7: Develop an integrated understanding and appreciation of human anatomy and its relevance to science, society, and technology.

Objective: This course will provide an active awareness and experience of human anatomy as a cornerstone to health care, basic science research, and medical technology. For example, an understanding of cross-sectional anatomy forms the basis of modern diagnostic methodology and practice (CT and MRI scanning technology).

Tentative Laboratory Schedule Fall 2005:

WEEK# - Monday	TOPIC
1 – Aug 29	Introduction and Body Orientation
2 – Sept 5	Microscopy and Histology
3 – Sept 12	Axial Skeleton and Appendicular Skeleton
4 – Sept 19	Finish Bones, Joints, Start Muscles
5 – Sept 26	Muscles
6 – Oct 3	Finish Muscles, Nervous System
7 – Oct 10	Special Senses
8 – Oct 17	Laboratory Exam 1
9 – Oct 24	Blood and Heart
10 – Oct 31	Blood Vessels, Lymphatics
11 – Nov 7	Respiratory System
12 – Nov 14	GI System
13 – Nov 21	Urinary System
14 – Nov 28	Reproductive System
15 – Dec 5	Lab Make-up Day, to account for labs missed due to Harvest Holiday and Thanksgiving, activity dependent on section, check with your instructor.

** Cumulative Laboratory Exam taken at assigned meeting time during finals week. Check with instructor for your section's meeting time**