

**BIOL 2320 Human Anatomy  
Fall Semester 2005  
Southern Utah University**

**Instructor:** Dr. Rachel Smetanka  
**Office:** Science Center 117  
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**Office Hours:** Monday/Wednesday 2:30-4:30, Thursday 12:30-2, or by appointment

**Meetings:** Lecture: Monday and Wednesday 5-6:20 pm, SC 114

**Required Text:** Human Anatomy and Physiology; Elaine Marieb, 6<sup>th</sup> Edition

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

**On-Line Information:** Via WebCT. WebCT will be used extensively in this course. Exam dates, homework assignments, supplemental study materials, and grades can be found by checking WebCT on a regular basis. Announcements about readings and schedule changes will be posted regularly. Occasionally, quizzes will be administered through WebCT.

**General Course Policies:** Considerable material will be covered by both the text, other assigned supplemental materials, and in lecture. 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.

<b>Grading:</b>	Lecture Exams:	(4 x 100 pt)	400 points
	Final Exam (cumulative):	(1 x 150 pt)	150 points
	Quizzes (in class and online):	(10 x 15 pt)	150 points
	Other Assignments:	TBA	100 points
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			650 points

There will be 4 in class lecture exams and one final exam. Lecture exams will be worth 100 points each toward total points possible for the course (except Final exam worth 150 points). Students are allowed to replace the lowest exam score with the final exam score if final exam score (based out of 100 points) is higher than one previous exam score. 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. Review questions, practice quizzes, and objectives will be posted on WebCT to be used as supplemental study materials. Use and completion is optional but encouraged. Anatomy is best learned through repetition, repetition, repetition.

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 Lecture Exams Given in SC 114 at 5:00 pm**

Lecture Exam 1: Monday, September 19

Lecture Exam 2: Monday, October 10

Lecture Exam 3: Monday November 7

Lecture Exam 4: Monday, December 5

**\*\*Final Exam: Wednesday, December 14, 5-7 pm\*\***

**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 Lecture Schedule Fall 2005:

WEEK# - Monday	LECTURE TOPIC All readings from Marieb 6 <sup>th</sup> Edition: Human Anatomy and Physiology
1 – Aug 29	<b>Introduction and Body Orientation, Body Tissues Ch 1 (please review Chs 2 and 3 on your own), 4</b>
2 – Sept 5	<b>Tissues and Integumentary System Ch 4, 5</b>
3 – Sept 12	<b>Integumentary System, Axial Skeleton Ch 5, 7</b>
4 – Sept 19	<b>Lecture Exam 1 (Monday), Axial and Appendicular Skeleton Ch 7</b>
5 – Sept 26	<b>Joints, Muscles Ch 8, 10</b>
6 – Oct 3	<b>Finish Muscles, Central and Peripheral Nervous Systems Ch 10, 12, 13</b>
7 – Oct 10	<b>Lecture Exam 2 (Monday), Peripheral Nervous System Ch 13</b>
8 – Oct 17	<b>Special Senses Ch 15</b>
9 – Oct 24	<b>(Monday Harvest Holiday), Blood, Heart Ch 17, 18</b>
10 – Oct 31	<b>Heart, Blood Vessels and Lymph Ch 18, 19, 20</b>
11 – Nov 7	<b>Lecture Exam 3 (Monday) and Respiratory System Ch 22</b>
12 – Nov 14	<b>GI System Ch 23</b>
13 – Nov 21	<b>Urinary System, Reproductive System Ch 25, 27</b>
14 – Nov 28	<b>Reproductive System Ch 27</b>
15 – Dec 5	<b>Lecture Exam 4 (Monday) and Final Exam Review</b>