

ADVANCED HUMAN ANATOMY

BIOL 4324 - SPRING 2011

Class Dates: Tuesday, Thursday
Class Times: Section B = 11:00-12:15 AM
Classroom: Section B = WSB 118

Instructor: Dr. Dale Utt, Ph.D. Office: WSB 119D
Office hours: MW 10:00-10:50, F 1:00-2:00 others by appointment
Phone 405-878-2042 e-mail dale.utt@okbu.edu

Texts: Human Anatomy and Physiology: 8th ed. By F. Martini

Course Objectives/Description:

Gross and histological study of the human organism with particular emphasis on the neuro-muscular systems as related to physical education and health care.

In keeping with the overall goals of the "Science Division, this course is designed to provide students with the opportunity to enhance their understanding of complex biological subject matter and to develop the skills necessary for independent and critical analysis of complex phenomena, data, and observations encountered in the scientific endeavor. In this multidisciplinary approach, our academic exploration will include but will not be limited to analysis of anatomical, physiological, ecological, evolutionary, genetic, and cellular systems in plants, animals and microbes. Emphasis will be placed on developing the students' skills in inquiry-based problem solving, design and execution of experiments, interpretation of experimental data, and presentation of experimental results in both written and oral format. Moreover, it is the intent of this course to enhance the students' understanding of the interconnectedness of the sciences by relating the major concepts of chemistry, earth/space sciences, and physics, to the biological sciences; and to emphasize and apply mathematical concepts, including statistics and pre-calculus to investigations in biology and the analysis of data. Finally, it is the goal of this course to provide an environment in which the students can explore the relatedness of historical, sociological, technological, and ethical issues and developments to the study of contemporary Biology.

Prerequisites: High school biology or permission of the instructor. Laboratory is required.

Class Participation: Students are expected to have made thorough preparation for each class period. Well-prepared students will be those who have made an honest attempt to read these sections and master these concepts PRIOR to coming to class, for, unfortunately, fifty minutes is insufficient time to cover every topic in great depth. You are expected to master all the concepts regardless of whether or not we have specifically covered them in class. Therefore, be prepared to ask questions, as much of the class period will be devoted to addressing concepts with which you may be having difficulty.

Attendance: The Oklahoma Baptist University attendance policy will be followed according to guidelines published in the Student Handbook.

Exams: There will be six major exams and a comprehensive final, all of equal value.

Laboratory: Attendance at all laboratory sessions is required. I expect to be informed in advance if illness or some other emergency prevents your attendance in lab or lecture. For specific topics and laboratory requirements see lab syllabus.

Late Assignments: Arrangements for make-up exams must be made at least 24hrs in advance of the test date and will only be granted in cases of extreme illness or family emergency. Other reasons may be considered at the discretion of the instructor and the grade for that assignment will be reduced by a minimum of a full letter grade from the score achieved on the make-up exam.

Grades: Grades will be based on the standard 100 percent scale: A (100-90), B (89-80), C (79-70), D (69-60), F (59 and below). Percentages will be based on the following components:

6 exams x 100 points each	600 points
Final Exam	100 points
Research papers (2) x 50 points each	100 points
<u>Laboratory evaluations</u>	<u>400 points</u>
Total Points	1200points

Office Hours: My office hours are Monday and Friday 10-11 and Friday 1-2. You can also make an appointment to meet with me at other times. If you stop by my office at the designated times and I am not in, you will probably find me in the laboratory preparing for class or working in the museum area.

Students with Disabilities: Oklahoma Baptist University complies with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. Students with disabilities who need special accommodations must make their requests and submit documentation to the Director of Student Services at (405)-878-2416. The Student Services office is located in the Geiger Center, Room 101.

Additional Important Academic Information for OBU Students

http://www.okbu.edu/academics/forms/Syllabus_Attachment_Spring11.pdf

Lecture Schedule:

DATE	ASSIGNMENT	TOPIC
Jan 25	Chapter 1	Intro & discussion of syllabus
Jan 27	Chapter 3 pgs 66-84, 107-110	Cellular level of organization
Feb 1	Chapter 4	Tissue level of organization
Feb 3	Chapter 5	The Integument
Feb 8	Exam I	None
Feb 10	Chapter 7	The Axial Skeleton
Feb 15	Chapter 8	The Appendicular Skeleton
Feb 17	Chapter 9	Articulations
Feb 22	Chapter 9 cont'd	more articulations

Feb 24	Exam II	None
Mar 1	Chapter 10 pgs 293-303,326-334 Chapter 11	The Muscular System
Mar 3	Chapters 13 & 14	Spinal Cord, Brain, Cranial Nerves
Mar 8	Exam III	None
Mar 11	No class	Special Topics
Mar 12-20	Spring Break	***
Mar 22	Chapter 17 pgs 561-578, 585-602	Sensory Structure & Function
Mar 24	Chapter 18 pgs 614-638,644-649	Endocrine System
Mar 29	Chapter 19 pgs 650-673,677-680	Blood
Mar 31	Chapter 20 pgs 681-694,715-718	The Heart
Apr 5	Chapter 21 pgs 719-729, 749-775	Blood Vessels & Circulation
Apr 7	Exam IV	None
Apr 12	Chapter 22 pgs 776-789,820-824	Lymphatic System
Apr 14	Chapter 23 pgs 825-843,869-873	Respiratory System
Apr 19	Chapter 24 pgs 874-894,898-913	Digestive System
Apr 21	Exam V	None
Apr 26	Chapter 26 pgs 965-975, 997-1008	Urinary System
Apr 28	Chapter 28 pgs 1041-1056, 1060-1073, 1081-1085	Reproductive System
May 3	Chapter 29 pgs 1086-1111, 1120-1123	Human Development
May 5	Exam VI	None
May 12	Final Exam	10:15-12:15pm