

BSC 227 -122 Human Anatomy - Syllabus

Fall 2018- Department of Biological Sciences - Marshall University

Instructor: Dr. Levine

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Office Hours: by appointment. I am always available before and after class for any guidance you may require. Tutoring is also available and can easily be arranged.

Textbook: Smartbook Human Anatomy 5th edition with Connect Plus Access Card. K.S. Saladin,

To purchase the Connect Access Code Go to Blackboard Registration Page and click on any assignment. From there can buy the code online or through MU Bookstore. You can even receive a free two week trial if funds are short.

The OPTIONAL hard copy is also available at a much discounted price

Other Materials: I utilize the library computer system to distribute slides from my lectures, supplementary material or exercises, study aids, additional material you may find interesting. I will always use lecture slides from the required textbook but I will also show you other textbook slides or my personal clinical slides that I believe will assist you in learning the materials. Lecture notes or study guides for Midterm and Final examinations will be provided.

Computer Requirements: Access to, and the ability to print documents from, MUOnline is required. Access to the internet is required to allow completion of the homework assignments. I regularly send notices to your Marshall Blackboard Email account, you are expected to check it regularly. Any electronic course communication must be through the Marshall Blackboard Email system (not Gmail, yahoo, MUOnline, etc.).

Lecture/Lab: Thursday Room 164.

Laboratory: All Labs in Room 164

Course Description: This course is essentially divided into two parts. There will be a didactic lecture portion with multiple in class quizzes and a Final examination. There will also be a “laboratory” portion where will be viewing anatomical models, organ specimens to dissect, as well as beautiful anatomical illustrations and photographs. There will be separate quizzes and a Final examination for this portion. Your final grade will be an accumulation of all your examinations of both parts.

Principles of gross and microscopic anatomy of human body systems and their development. Open to candidates in BSN program. Does not count towards a major in Biological Science. 4 credit hours.

Prerequisites: ACT composite 19 or higher or 12 hrs. College credit, 100 level or above with minimum GPA of 2.3.

Human Anatomy is the study of the cells, tissues, organs and systems that make up the human body.

This course is a systematic and integrated examination of the human body at these different Organizational levels and will provide the anatomical knowledge that serves as the foundation for the study of human physiology.

General Learning Concepts:

Lectures are organized loosely around material presented in the textbook, but additional material will also be included. Certain topics will be emphasized and, on occasion, points in the textbook will be argued. Exams are based on material presented in lectures and EVERYTHING presented in lectures is examinable. The textbook readings are intended to help you learn material presented in the lectures, by presenting it in a different and often more comprehensive format. Occasional specific readings from the textbook will be examinable; these will be outlined in lectures.

Study Habits:

This course will cover a great deal of material. The exams will be comprehensive both in the scope of material covered and in the ways in which you will be asked to demonstrate how well you have learned the material. Many of you may find this somewhat difficult, as cramming and memorizing from lecture handouts just before an exam tends to result in poor exam scores. You will want to develop good study habits.

Among these are coming to class prepared, and taking good notes. This where Learnsmart will be invaluable. This will prepare you for the complex material for the upcoming class. All classes will have the preparatory Learnsmart to perform the week before class. Study often; it is best to review material at least weekly, and to rewrite your notes. Ask questions in class. Use the textbook to help fill in gaps in your understanding. The general recommendation for success is that you spend 2-3 hours studying outside of class for every hour in class; this means that you should spend 6-9 hours per week working on the lecture component of this course.

Find study habits that work for you. There are a few general rules (avoid distractions and stress, don't leave it to the last second), but aside from this different people respond very differently to different environments. Use this web page to read about different learning styles, and take the quiz to find out which ones might work best:<http://www.learning-styles-online.com/overview/> I also believe that websites such as YouTube and Khan's Academy can provide excellent didactic as well as illustrative information for you.

Goals:

Most of the students who take this course are interested in a career in public health. As such, I feel it is important to give you the opportunity to begin to develop those skills necessary for pursuing a career in this field. Therefore, in this course we will strive to do the following: Provide the material necessary for a thorough understanding of human anatomy. Provide the opportunity to develop your ability to integrate information and think about it critically, analytically, and conceptually. Provide the opportunity to integrate knowledge of anatomy in preparation for understanding of physiology. Provide the opportunity for you to study human anatomy with an emphasis on your particular interests.

Expected Learning Outcomes:

I have expectations of you in terms of the knowledge and abilities you will develop over this course. In this course we provide you with the opportunity to develop your knowledge and skills. We will go beyond simple memorization of facts, and ask that you learn the material. However, you are the one paying to take this course, you are the one who will be competing for placement in professional programs or jobs, and you are the one who knows where your interests lie and what particular knowledge you need to pursue your chosen career. It is up to you to participate, to ask questions, to study, and to come to lecture or lab prepared. In aid of this, I will open the floor at the beginning of each class to questions or comments, and I will ask questions of you.

I anticipate that as the course progresses, you will develop and refine the ability to: Describe anatomical structures at different organizational levels. Identify and describe components of human anatomy, and integrate them into a complete view of the human body. Integrate knowledge from different parts of the course and infer how anatomical systems relate to one another structurally and spatially within the context of the human body. Recognize anatomical structures discussed in lecture on models and images provided in lab. Critically evaluate information and data, and form conclusions based on your evaluations.

Personal Conduct:

I will expect everyone in the labs and lectures to act in a professional and courteous manner. Disruptive, abusive, or offensive behavior directed at anyone involved in the class will not be tolerated, and offenders may be asked to leave the classroom and forfeit any associated grades. Cell phones and other communication devices should be turned off. If you absolutely must answer a phone call, quietly leave the class before doing so. Text messaging is not allowed. Use of computers or personal electronic devices is not allowed, unless their use is directly involved with class activities and has been approved by myself. If you are late, enter quietly and avoid disturbing the class. Any disruptive behavior, including but not limited to talking, reading other material in class, texting, or cell phone use, will result in the offender being required to leave the class and forfeiture of any associated grades. Finally, I only respond to emails that are written with professionalism and courtesy.

Attendance:

Missed exams or quizzes can be made up only in the case of a University approved absence or a weather related closure. It is your responsibility to be familiar with University policy, which can be found in the academic calendar or at these web addresses:

<http://www.marshall.edu/student-affairs/absence.htm>

<http://www.marshall.edu/ucomm/weather.html>

We DO take attendance in the lectures and laboratories. Due to high use of the laboratory space, we cannot set up lab activities at times other than your scheduled period. Therefore, if you miss a lab, you miss those points. If you have a University approved absence, missed lab quizzes will not be counted.

Academic Honesty:

Students found guilty of academic dishonesty may be placed on academic probation, suspended, or dismissed from the University.

I take honesty and integrity seriously, and will not tolerate any form of dishonest conduct. You are responsible for knowing the University's policies, which can be found in the student handbook or at these web addresses:

<http://www.marshall.edu/academic-affairs/Student%20Resources/Academic%20Dishonesty%20Policy.pdf>

<http://www.marshall.edu/muonline/plagiarism.asp>

During exams, I will expect you to NOT look at the work of those sitting around you or electronic devices either on or in view. In the lab, most work will be done in groups, but we expect that all quizzes and exams will be written independently. Any incidence of dishonest conduct will result in a grade of ZERO for that test, quiz, or assignment, and possible failure or dismissal from the course. Every case will also be referred to Academic Affairs for further action

Social Justice:

Absolutely NO student will be discriminated against based on race, ethnicity, sex, age, sexual orientation, social class, health condition, or religion. Every student is an integral and essential member of this class, and their opinions and discussion will be treated with value and respect.

Students with Disabilities:

Marshall University is committed to equal opportunity in education for all students, including those with physical, learning and psychological disabilities. University policy states that it is the responsibility of students with disabilities to contact the Office of Disabled Student Services (DSS) in Prichard Hall 117, phone 304 696-2271 to provide documentation of their disability. Following this, the DSS Coordinator will send a letter to each of the student's instructors outlining the academic accommodation he/she will need to ensure equality in classroom experiences, outside assignment, testing and grading. The instructor and student will meet to discuss how the accommodation(s) requested will be provided. For more information, please visit <http://www.marshall.edu/disabled> or contact Disabled Student Services Office at Prichard Hall 11, phone 304-696-2271.

Smoke free campus:

MOVC has now become a totally smoke free campus. There is no smoking of any kind on campus grounds which includes in automobiles on campus grounds.

Assessment:

Written exams and quizzes are a necessary means of evaluating how well students have met my expectations, especially in classes like BSC 227.

There will be SEVEN (7) Online Lecture quizzes multiple choice and true/false quizzes to access your knowledge of the didactic lecture material.

There will be SIX (6) IN CLASS Practical Exams to assess your knowledge of the anatomic and virtual models. (There are HOMEWORK assignments given a week prior to each practical exam. These homework assignments will not only prepare you for the exam but the homework “grades” will be extra credit added to your exam score)

Practical exams in the laboratory will employ anatomical models and virtual models to test your knowledge. They will cover similar material as the lectures, and will emphasize your ability to integrate the course material.

There is an ATTENDANCE QUIZ. If you are present for 100% of classes you receive a 100 for the quiz and so on.

There will be FIVE (5) Metric quizzes that will be averaged into a Metric Quiz Grade. The Attendance and Metric quiz will be counted in your Laboratory grade.

There will be a Lab Practical Final Examination and a Lecture Final Examination

Grading Policy:

Your grade will be based on your scores on

Online Lecture Quizzes: 25%

Practical Exams + attendance quiz + Metric quizzes :25%

Lecture Final Examination: 25%

Laboratory Practical Final Examination: 25%

Total: 100%

I use this scale to determine final grades:

100 - 90 = A; 89 - 80 = B; 79 - 70 = C; 69 - 60 = D; <59 = F.

I round up if your score is X.5 to X.9. I do not give extra credit.

Tentative Lecture Schedule*

General Topic Readings (Saladin 5th Ed)

8/23 Course Intro. Body Organization. Anatomical Terminology-
Chapter 1

Cellular Anatomy – Chapter 2

Histology Chapter 3\

Online Quiz 1 – Ch. 1 available 8/23-8/29

8/30 Lab Practical QUIZ 1

Histology- Chapter 3

Integumentary System Chapter 5

Bone Tissue Chapter 6

Online Quiz 2 Ch. 2, 3, 5 available 8/30-9/5

9/6 Practical Quiz 2- Histology/Integumentary System w/ metric quiz 1
Axial Skeleton Chapter 7

Appendicular System Chapter 8

9/13 Skeletal Appendicular System Chapter 8/Muscular System Chapter 10/
Axial Musculature Chapter 11
Appendicular Musculature System Chapter 12
Online Lecture QUIZ 3 Ch. 6-8 available 9/13-9/19

9/20 Practical Exam 3 Axial/Appendicular Skeleton

Axial and Appendicular Musculature Chapters 11/12
Nervous system Ch. 13

9/27 Practical Exam 4 Axial/Appendicular Musculature
Spinal cord/nerves Chapter 14
Brain and cranial nerves Chapter 15
Autonomic Nervous System Chapter 16
Sense organs Chapter 17
Online Quiz 4 Ch. available 10/4-10/10
LAB Brain dissection

10/4

10/11 Lab Practical Exam 5- Nervous System
Circulatory system- Blood/ Heart Chapter 19, 20 LAB Heart dissection

10/18 Circulatory System- Blood Vessels Chapter 21
Respiratory System Chapter 23
Online Lecture Quiz 5 Available 10/18-10/24

10/25 Practical Exam 6- Heart/Blood Vessels
Digestive System Chapter 24
Online Quiz 6 Ch. 23-24 available 10/25-10/31

11/1 Urinary System Chapter 25
Lab: /Kidney Dissection

11/8 Reproductive System Chapter 26

11/15 Human Development Ch. 4
Fetal pig dissection
Online quiz 7 Available 11/15-11/21 Ch. 25,26,4

NO CLASS-Thanksgiving Break November 22

11/29 Endocrine System Ch. 18

12/6 LECTURE FINAL EXAMINATION
Lab Practical Final Examination Review

12/13 LAB PRACTICAL FINAL EXAMINATION- Heart/Vessels, Respiratory,
Digestive, Urinary, Reproductive Systems

*-Subject to change – keep in mind that we may start specific topics earlier or later than outlined here, depending on how things progress through the term.