**BSC 227 - Human Anatomy - Syllabus**

Fall 2016 - Department of Biological Sciences - Marshall University

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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: Human Anatomy 5th edition K.S. Saladin,(OPTIONAL)

McGraw Hill Pub. ISBN: 9780073403700 (Hard copy textbook MAY be purchased at a small fee with the virtual Smartbook at a small additional fee)

Connect Access MUST be purchased separately prior to class at:

[www.//connect.mheducation.com/class/j-levine-fall-2016](http://www./connect.mheducation.com/class/j-levine-fall-2016) (REQUIRED)

Lab Manual: MU BSC 227 Laboratory Guide available only at Marshall Bookstore. (optional)

Depending on your Financial Aid status, you can purchase the digital Connect virtual text through the Marshall Bookstore or directly via McGraw Hill

Other Materials: I utilize the MOVC library computer system to distribute slides from my lectures, supplementary material or exercises, study aids, additional material you may find interesting, Bravin Hughart is available at MOVC to assist you.. I will always use lecture slides from the Saladin textbook but I will also show you powerpoints from other textbooks and from my personal clinical slides that I believe will assist you in learning the materials. Lecture notes or study guides for the 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 may send notices to your Marshall Email account, you are expected to check it regularly. Any electronic course communication to the students from myself must be through the Marshall Email system (not Gmail, yahoo, MUOnline, etc.). It is critical that I have your email address at least one week prior to class.

Lecture/Lab: Thursday Room 164.

Laboratory: All Labs in Room 164

Course Description:

This class is unique and should be very exciting for you and I. We will be utilizing the McGraw Hill Connect virtual Smartbook. I believe it will give a much more efficient system and offer you a much more precise personalized grasp what is a challenging topic- the human body. It also enables me to visualize your strengths and weaknesses prior to class.

This course is essentially divided into two parts. There will be a didactic lecture portion utilizing the McGraw Hill Connect digital “textbook”. This system does not require an actual hard copy textbook. You may purchase the text at a small fee if you wish. I encourage you to purchase the textbook This is an interactive platform that provides auto graded assessments, a customizable assignable eBook and a powerful tool for students to improve your academic performance and truly master course material. The Connect system will allow you to take pretests via Learnsmart one week prior to class. These are required and will enable you to get aquainted with these complex topics prior to the lecture.

There will also be a “laboratory” portion where we will be viewing anatomical models, organ specimens to dissect, as well as beautiful anatomical illustrations and photographs. There will be separate in class practical quizzes and a Final examination for this portion. We will be utilizing APR- ANATOMY AND PHYSIOLOGY REVEALED. This a system that allows us to digitally blend cadaver photos of the human body that lets you peel away layers of the body to reveal more than 5000 anatomical structures. We will utilize this in class. You will be able to use APR anytime and anywhere.

Your final grade will be an accumulation of all your examinations of both parts.

. 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 around material presented in the interactive SMARTBOOK as well as in the classic textbook format, but additional material will also be included . 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, and 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 Anatomy somewhat difficult. 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. 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.

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. I find it very difficult to do well in this important class and maintain a full time job. You must prioritize extremely well to achieve in the university setting.

You will find the CONNECT platform an amazing tool to assist you in learning the material not just memorizing words that will slip away quickly. This system will prepare you for each class and will allow you to concentrate on concepts that are difficult for yourself. APR will help you “see” the human body in a fresh way that a plain textbook can not do by itself.

Goals:

 Most of the students who take this course are interested in a career in health care As such, I feel it is important for me 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 know 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.

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. . Finally, I only respond to emails that are written with professionalism and courtesy.

Attendance:

Please read the newly revised Attendance policy in the MU student handbook. The Student Senate is emphasing the importance of attending class especially a class that is once per week like OURS.

 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. We cannot set up in class lab activities at times other than your scheduled period. Therefore, if you miss a lab, you miss those points.

Academic Honesty:

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

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 your opinions and discussions 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:

Smartbook is the future of education. This e-Book for our class has amazing graphics. Take the time to investigate all aspects of SMARTBOOK. There are so many tools it offers to better your education. Investigate the LIBRARY section to assist you with such topics as Medical Math etc.

 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 online PRETESTS( called Learnsmart LS)prior to every class. These quizzes will help you grasp the material prior to class. These must be completed by midnight of the day before class. They are graded and no one will be able to obtain an A, for example, unless these are accomplished. There will be 4 ON LINE multiple choice and true/false quizzes to access your knowledge of the didactic lecture material.

 There will be 5 ( five))IN CLASS Practical Exams to access your knowledge of the anatomic and virtual models. One week prior to each Practical Lab test there will be Practical Lab 1-5 HOMEWORK. These on line practice questions will not only help you do well but will be EXTRA CREDIT points added to your lab exam scores.

 Questions will be written so as to test your preparation at every level, from memorization of facts to application of conceptual knowledge. I expect that you will always be prepared to answer questions in the lecture. .

Practical exams are given in the class and will employ power points of 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. APR (Anatomy and Physiology Revealed) will be used in class. You will be able to use this amazing educational tool anywhere.

There will be an IN CLASS Lab Practical Final Examination and a Lecture Final Examination

Grading Policy:

Your grade will be based on your scores on

Lecture Quizzes (5): 400 points

Practical Exams (5) 400 points

Lecture Final Examination: 100 points

Laboratory Practical Final Examination: 100 points

Total: 1000 points

YOU CAN NOT RECEIVE BETTER THAN A ‘C’ IF YOU DO NOT PERFORM >90% OF THE LEARNSMART ASSIGNMENTS

I use this scale to determine final grades:

100 0- 900 = A; 890 - 800 = B; 790 - 700 = C; 690 - 600 = D; <590 = 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 (Saladin5th Ed)

Remember: You must perform the chapter review and assignment via LEARNSMART prior to each class..

8/25

 Course Intro. Body Organization. Anatomical Terminology

Chapter 1

Cellular Anatomy

Chapter 2

Chapter 3

Lab: Metric Mania

**Online quiz 1 Anatomical terminology 8/27-9/2**

9/1

Chapter 3 Histology

Integumentary System Chapter 5

Lab: APR session

Lab

9/8

Chapter 6 Bone tissue

Axial Skeleton Chapter 7

Appendicular System Chapter 8

Lab:

 **Practical EXAM 1**- Histology/Integumentary System

**Online quiz 2 -cells,histology,integumentary 9/10-9/17**

9/15 Skeletal Appendicular System Chapter 8/

Muscular System Chapter 10/ Axial Musculature Chapter 11

Appendicular Musculature System Chapter 12

Lab: APR session

Online quiz 3 Chapter 6-8 available 9/13-9/21

9/22 Axial and Appendicular Musculature Chapters 11/12

Lab: Exercise 7

**Practical Exam 2-**

Axial/Appendicular Skeleton

9/29 Nervous System Chapter 13

Spinal cord/nerves Chapter 14

**Practical Exam 3 Axial/Appendicular Musculatur**e

10/6

Brain/cranial nerves Chapter 15

Autonomic Nervous System Chapter 16

Exercise 10

10/13 Endocrine System Chapter 18

 Sense organs Chapter 17

Lab: Eye dissection

**Online Quiz 3 Nervous/ 10/13-19**

10/20 Circulatory system - Blood/ Heart Chapter 19,20

LAB Heart dissection

**Practical Exam 4- Nervous System Chapters 13-17**

10/27 Circulatory System- Blood Vessels Chapter 21

Lymphatic System Chapter 22

11/3 Respiratory System Chapter 23

**Practical Exam 5- Heart/Blood Vessels**

11/10

Digestive System Chapter24

11/17 Genitourinary System Chapter 25

**Online quiz** 4 Chapters 18/24/25 available 11/17-12/1

11/24 NO CLASS-Thanksgiving Break

12/1 Reproductive System Chapter 26

**Online quiz 5 Cardiovascular/Respiratory system**

12/8 **LECTURE FINAL EXAMINATION**

Lab Practical Final Examination Review

12/15 **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.