**BIO 227: Human Anatomy**

**Marshall University**

**Fall 2014**

Faculty: Frederick W. Walker, M.D. **Lecture: Smith Hall 154 Tues. & Thurs. 12:30 pm–1:45 pm**

Office: Science Building, S201 **Lab: Science Bldg. 269 Mon. 9a, 11a, 1p, 5p or Tue. 8a, 10a**

Phone: Office 304-696-3480 **Office Hours:**  Tues. & Thurs. 2:00-3:00; & by arrangement

Email: walkerf@marshall.edu & internally through BlackBoard

**Course Description:**This course covers basic human anatomy, including primarily gross anatomy, some neuroanatomy, histology, and slight embryology. *Three lecture hours and two laboratory hours per week. Prerequisite: None.*

**Purpose of this Course:**This course focuses on the structure and functioning of the following human organ systems: integumentary, osseous, muscular, nervous, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive. This course will provide the fundamental knowledge to prepare students for a career in the health sciences. Emphasis is placed not only on basic anatomy, but also on concepts such as multifunctionality, redundancy, interconnectivity, logical arrangement, and physiologic correlation.

**Required Textbooks and Course Materials:** • Human Anatomy. Kenneth S. Saladin, 3th (or 4th) Edition. 2011. (sold in MU bookstore or online)

 • BSC 227 Lab Guide (purchased at MU bookstore)

The Saladin text website (<http://www.mhhe.com/saladinha3>) has animations, quizzes, and study tools for every chapter in the textbook.

**University Policies (additional “Course Policies” are at the end of the syllabus):**

By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to [www.marshall.edu/acdemic-affairs/policies](http://www.marshall.edu/acdemic-affairs/policies) or by going to [http://www.marshall.edu/academic-affairs/?page\_id=802](http://www.marshall.edu/academic-affairs/?page_id=802e) : Academic Dishonesty / Excused Absence Policy for Undergraduates / Computing Services Acceptable Use / Inclement Weather / Dead Week / Students With Disabilities / Academic Forgiveness / Academic Probation and Suspension / Academic Rights and Responsibilities of Students / Affirmative Action / Sexual Harassment. It is the student’s responsibility to review these policies.

**Student Learning Objectives & Academic Outcomes:**

Upon satisfactory completion of this course, the student will be able to:

1. Recall and correctly use anatomical terminology and explain anatomical concepts clearly and accurately. (Academic Outcomes: communication, critical thinking)

2. Recall, explain the function, and recognize disorders of the major human body systems, especially how they are governed by basic physiologic processes. (Academic Outcomes: communication, critical thinking)

3. Visually identify, correctly spell, and describe the gross and microscopic anatomy of the organs and structures of the human body. (Academic Outcomes: communication, critical thinking)

4. Describe and evaluate how a knowledge of basic anatomy is utilized in many healthcare areas such as medicine, dentistry, nursing, imaging (radiology, ultrasound, CT, MRI), physical and occupational therapy, and be able to apply that information in clinical examples via case studies. (Academic Outcomes: communication, critical thinking)

5. Use technology to investigate the human body via the use of computers. (Academic Outcome: science and technology)

**Assessment of Outcomes:**

Critical Thinking: Critical thinking outcomes will be assessed via laboratory assignments, quizzes and exams. Some exams will include case study questions which require students to make judgments regarding the functioning of a system, including the knowledge of normal and abnormal anatomy.

Communication: Students will be required to correctly spell anatomical structures on practical examinations. Students must accurately express themselves using proper English and correct anatomical terminology when answering essay questions on exams. Students will also complete some laboratory assignments which require written responses.

Science and Technology: Students will use computers to examine cells and tissues of the human body as well as review photographs of 3-D models. Current applications of technology in medicine will be investigated in this course.

Information Literacy: Students will gather and analyze data from multiple sources including the internet.

**Course Requirements & Assessment Methods:**

Around seventy percent (75%) of your course grade will come from the lecture component and twenty-five percent (25%) will come from the laboratory component. As you can see below, all grades and assignments are point-weighted equally. To calculate your standing in the class, take the number of points earned to date and divide that by the total points possible to date. This will give you a percentage score and its corresponding grade. The *final* grade cannot be determined until the final exam is calculated. Remember that you will count only the 10 *best* lecture quiz grades, which will not be known until later in the course. This method WILL give you a rough standing, though, going into the “drop by” date and the final exam, as a study/planning aid!

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| Unit Exams (4 @ 100 points each) | **50.0%** |
|  Possible extra credit (Professor’s discretion) | **?** |
| Laboratory Grade:  Practical Examinations (2 @ 100 points each) Lab Bonus Quizzes (±5 @ 3 pts. each) | **25% consisting of:** 200 pts (~15 pts.) |
|  Extra credit at G.A.’s discretion | (? pts.) |
| Cumulative Final Exam (100 points) | **25%** |

**Grading Scale:** A = 88% or > B = 77 – 87.5% C = 66 – 76.5% D = 55 – 65.5% F = < 55%

**Course Policies:**

A. Attendance:
 I may take attendance in lecture for Federal guidelines only, and not for grades. Lab grades ARE reduced by unexcused absences. If you miss a class you will not be able to make it up but you will still be held accountable for the material presented during that period. You are responsible for finding out the material covered and completing any assignments.

Examinations may consist of multiple choice, true/false, matching, short answer essay, and case study questions. Each format will be discussed prior to the exam. **Exams are not to be missed. You must notify me within 24 hours if you need to take a make-up exam. Make-up exams will be given within 3-5 class days of the original exam, even if your University Approved Absence is pending!**

\*\*Work missed due to absence is the student’s responsibility. All work not made up receives a grade of zero.

B. Class Handouts:

 Several subject handouts and study aids are available on BlackBoard, in the “Handout” folder. Additional material may be added as the course progresses. These are NOT correlated to exam questions!

C. Class Cancellation Procedures:

 In the event of the University’s cancellation of a class session, I will modify the course syllabus to cover the more relevant topics. Check the MU website for information regarding any school closures. Any assignments due the day of the cancelled class will be given/due at the next class meeting.

 D. Laboratory Reports:

 Any laboratory reports/assignments must be completed within one week and must be submitted at the start of the next lab session. If a lab is missed you MAY be able to attend another session that week. There will be no make-up labs allowed outside of “our” sections. The material covered in each lab may be discussed at the end of each session. Written assignments are the student’s responsibility. ***One point will be deducted from any lab report grade for each day it is submitted late.***

E. Student Responsibilities:
 • Come to class on time and take careful, but thoughtful, notes.

 • Read/skim the text PRIOR to the class in which it is being discussed/covered. SOON AFTER class,

 review (if “read” prior), or “read” (if only skimmed prior), the Chapter again!

 •Read the laboratory exercise PRIOR to the laboratory session!

 • Review (rewrite?) your notes as soon as possible after lecture. Take time to study EVERYDAY.

 You will need to spend at least 2-3 hours on each chapter. Plan to review notes/text for a minimum of

 one hour each day.

 • Ask questions if you do not understand a concept or assignment. However, make sure your questions

 are relevant to the topic. Do not monopolize class time with questions. If you are having difficulty with

 the material please see me during my office hours. Do not wait until

 • Form review (study?) groups with others in the class!

 • Complete and submit all laboratory assignments on time.

 • Do NOT leave lab early. Use any extra time at the end of lab to study models and teach one another.

Note: The federal definition of a credit hour is that you are assigned at least 2 hours of outside work for every hour you spend in the classroom. This has been done in order to assure that a college “credit” means the same thing for all students, in all classes and colleges, across the US. If you are not putting a minimum of 6 hours/week into studying and preparing for this class do NOT expect to be successful.

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| Course Component Time | Time Outside of Class | Recommended Activities |
| Lecture (“3” hours per week) | 5-6 hours per week | 1. Reading Text2. Using web-based tutorials, activities, and quizzes3. Re-writing notes4 . Study and review in a group |
| Lab (“2” hours per week) | 1-2 hours per week | 1. Preparing for laboratory sessions (reading the exercise before lab)2. Completing laboratory assignments.3. Study and review in a group |

**Academic Dishonesty:**

 Students who commit acts of academic dishonesty (e.g., cheating, fabrication, facilitating academic dishonesty, and plagiarism) will be subject to formal disciplinary action and will receive a 0 on the exam, quiz, or assignment involved and, at the discretion of the Chairman of Biological Sciences, the student may receive an F for the course. In addition, the student will be referred to the Chairman and a report will be filed with the University Administration for a Student Code Violation.

 If you happen to witness a classmate cheating, you have a responsibility to report it through the appropriate channels. Please notify the instructor of the violation so they can follow up in an effort to prevent future instances. Be as thorough as possible when describing the incident. All reported incidents will be followed up in a timely manner. ***The instructor does NOT need to witness the incident for it to be reported.*** All student reporting must be done in good faith with the goal of retaining academic integrity.

**Disability Support Services:**

 MU is committed to serving students who have documented physical, learning, psychological, or other disabilities. Students with a disability are responsible for contacting the Office of Disability Services at 304-696-2271 to discuss their need for accommodations. Information shared with O.D.S. is kept in strict confidence.

**Tutoring Support Services:**

 Tutoring support is available for all students. The Tutoring Center is in Laidley Hall. If you feel that a tutor would help with your success in this class, a request for tutoring may be made by calling 304-696-3169. ***NOTE: tutoring support must be requested by the drop deadline for the course.***

**Inclement Weather – MU Closings:**

If there is inclement weather, the college may be closed and classes cancelled. You can check the status of the college via several methods:

• Call the MU Emergency Information Number: 304-696-3170.
• Check the University website at [muwww-new.marshall.edu/academic-affairs/policies/#InclementWeather](http://www.marshall.edu/Tutoring/default.asp?FA=Academics)
• Listen to radio or television broadcasts for announcements.

If class is cancelled you are expected to keep up with all assignments and readings. All exams missed will be given at the next class meeting, without additional notification.

### *Some Important Dates for 15-Week Classes – Fall 2014*

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| August 25th  | Fall semester classes begin |
| September 1st  | MU closed for Labor Day (lab. cancelled all week) |
| October 31st  | Withdrawal deadline for full-semester course |
| November 24th – 29th | MU closed for Thanksgiving Break |
| December 1st – 6th  | Dead Week  |
| December 4th  | Last Lecture (no exam) |
| December 8th – 11th  | Final Exam Week (ours “should” be Tues. Dec. 9th ) |
| December 20th  | Fall Semester Ends – University closes |

The instructor reserves the right to modify and/or change the course syllabus

 and/or schedule with reasonable notification to students.