**BIO 227: Human Anatomy (T)**

**Marshall University**

**Spring 2017**

Faculty: Frederick W. Walker, M.D. **Lecture: Science Bldg. 376 T 5:30 pm - 8:20 pm**

Office: Science Building, Rm. 201 **Labs: Sci. Bldg. 269 W 2-3:50 & 5:30-7:20 p, R 5:30p-7:20 p**

Phone: Office 304-696-3480 **Office Hours:** Mon. 10 am–1 pm & Tue. 3:30-5:15 pm & by appt.

Email: walkerf@marshall.edu **Dept. Office:** Sci. Bldg. 350; 304-696-3148

**Course Description:**This course covers basic human anatomy, including primarily gross anatomy, with some neuroanatomy, histology, and 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: cutaneous, osseous, muscular, nervous, cardiovascular, lymphatic, respiratory, digestive, urinary, & reproductive. This course will provide the fundamental knowledge to prepare students for many careers in the health sciences. Emphasis is placed not only on basic anatomy, but also on concepts such as multifunctionality, redundancy and inter-connectivity. Study habits, “exam-taking” skills, following directions, and scheduling/reminder skills for “time-due” assignments and “time-dependent” quizzes are also taught & evaluated for understanding.

**Required Textbooks and Course Materials:**

• McGraw-Hill “Connect” Code w/ full eBook, Human Anatomy, Saladin, 5th Ed. (at MU bookstore & online); “Connect” includes a text specific content management system, LearnSmart modules, “Readiness Assessment Tools”, and a virtual cadaver dissection.

 • BIO 227 Lab Guide (purchased only at MU bookstore)

 • Turning Point NXT Response Card (Clicker) (sold/rented at MU bookstore (can resell) or online.

The Saladin text website (http://www.mhhe.com/saladinha5) has animations, quizzes, and study tools for chapters in the textbook. Other online aids, such as “www.showme.com” are useful adjuncts to learning.

**Required Technology Capabilities:**

To successfully complete this course, you must have access to and be proficient in the use of a computer, the internet, Google Chrome and/or Mozilla Firefox browsers, and the following websites:

 Marshall University ([www.marshall.edu](http://www.marshall.edu)) MU Online ([www.marshall.edu/muonline/](http://www.marshall.edu/muonline/)) {BlackBoard} MyMU (mymu.marshall.edu) McGraw-Hill Connect (<http://connect.mcgraw-hill.com>)

The computer must have updated Java and Adobe Flash support software. You will be completing weekly assignments, quizzes and other related work by accessing the above online resources. In addition, they offer a variety of interactive learning resources.

Adequate, updated virus software is strongly recommended. Because time-sensitive activities are important to success in this course, back-up computer availability should be assured. Computer “freezes” and “lock ups” need to be documented with a “screen shot” to permit possible re-opening of a timed assignment.

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

By enrolling in this course, you agree to the University Policies listed herein. 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 [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 basic anatomic concepts clearly and accurately. (Academic Outcomes: communication, critical thinking)

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

 3. Visually identify, correctly spell, and describe the microscopic anatomy of tissues and the gross anatomy of 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, medical imaging, physical & 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-five percent of your course grade will come from the lecture component and twenty-five % will come from the laboratory component. As you can see below, lecture and lecture points are 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. This will give you a percentage score and its corresponding grade. The *final* grade cannot be determined until the final exam is calculated. You will count only the 20 *best* lecture quiz grades, which cannot be known until later in the course. This method WILL give you a rough standing, though, going into the final exam, as a study/planning aid. Bonus points may NOT be used to raise your grade above 55%.

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| Unit Exams: (4 @ 100 points each) | **50%** |
| Connect} LearnSmart/RAT/quiz activities (100 points) | **12.5%** |
| Laboratory Evaluations: Practical Examinations (2 @ 100 points each) (Extra credit quizzes (?# @ 3-5 pts. each) | **25% consisting of:** 200 pts (max 20 pts.) |
| {*Some* lecture bonus points *will be* offered/awarded} | **?** |
| Cumulative Final Exam (100 points) | **12.5%** |

**Grade Scale:** A = 88% (704 pts.) or > B = 77% (616 pts.) – 87.5% C = 66% (528 pts.) – 76.5%

 D = 55% (440 pts.) – 65.5% F = < 55%. Grades are rounded up or down to the

 nearest whole percent.

**Course Policies:**

A. Attendance:
 I take attendance in lecture for Federal guidelines, and, occasionally, for lecture bonus points. Course grades ARE reduced 1% for each unexcused LAB absence. 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 laboratory assignments. All work not made up receives a grade of zero.

Examinations may consist of multiple choice, true/false, & short answer case study questions. Exam scores (exempting the first) ARE reduced by four (4) points (1%) for failure to be prepared by not having a functioning Response Card (clicker device) for each lecture exam, necessitating “hand-grading”.

 **Exams are not to be missed. You must notify me within 24 hours if you plan to take the make-up exam. Make-up exams will be given/taken within 2-6 days of the original exam date, even if your University Approved Absence is pending!**

B. Lecture Handouts:

 A few subject handouts will be made available on BlackBoard. We usually make them available at the time that that Unit’s material is made available, but we sometimes do so closer to that subject’s lecture time.

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 lab meeting.

 D. Laboratory Reports:

 Any laboratory assignments must be completed and submitted at the G.A. designated time. If a lab is missed you MAY be able to attend another of our “class’s” sessions 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. ***Points may be deducted from any lab report score for each day it is submitted late.***

E. Student Responsibilities:
 • Come to class on time, with your clicker, and take careful notes.

 • Read the LearnSmart highlighted portions of the text PRIOR to the class in which it is being

 discussed. The LearnSmart questions accompany the reading. Use the “Readiness Assessment Tool”

 long enough before the due date so that you can brush up on unclear items prior to taking your quiz.

 **Missed quizzes cannot be made up.**

 •Read the laboratory exercise PRIOR to the laboratory session!

 • Re-write your notes as soon as possible after lecture. Take time to study a little EACH day.

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

 thirty minutes 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.

 • Form small study groups with others in the class! Have a single “study buddy” with whom you converse

 frequently, at least twice a week.

 • 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(s) (3 hours per wk.) | 5-6 hours per week | 1. Connect “LearnSmart” activity (< 2 hrs.)2. Connect “RAT”s (< 2 hrs).3. Connect Quizzes (30 minutes)4. Re-writing lecture notes (20 min.)5 . Review w/ study buddy (20 min.) |
| 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 your group |

**Tentative Dates for Exams**

Unit Exam1: **09/06** UE2: **10/04** UE3: **10/25** UE4: **11/29** Final Exam: **12/13**

 Lab Practical Mid-Term: **Week VII** Lab Practical Final: **Week XVI**

**Academic Dishonesty:**

 Honesty is paramount and expected. 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 – Spring 2017*

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| January 9th  | Spring Semester classes begin; Our first class – 1/10 |
| January 13th  | Add / Drop (full refund) Deadline |
| January 16th  | MU closed for Martin Luther King Holiday |
| February 27th  | Fresh./Soph. Mid-Term D & F grades reported |
| March 17th  | Withdrawal deadline for full-semester course |
| March 20th – 25th  | Spring Break  |
| May 1st – 5th  | Final Exam Week; Our Final is Tue., time TBD |
| May 6th  | Spring Semester Ends – Summer Break begins |

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

 (and/or Schedule) with reasonable notification to students.