BIO 2423.020 HUMAN ANATOMY
SYLLABUS FALL 2017

Instructor
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Information
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Office Hours: MWF 10-11; TR 9:30-11:00

OVERVIEW and LEARNING OUTCOMES: Welcome to Human Anatomy and your first “mega” syllabus! It is chock full of valuable information, so please take the time to read it thoroughly. This is a science course about the study of the structure of cells, tissues, organs, and organ systems of the human body (see schedule). It serves a variety of academic majors. While the specifics of content will vary depending on the needs of the participants, we will be aiming at the following goals to help prepare you for a career in your field.

A successful student in human anatomy should be able to achieve the following course and state core related learning outcomes:

- locate, identify, and functionally describe the structures of the human body at all levels of organization (i.e. recall content) = CT1, EQS1, EQS2 – Assessment = In class activities, lecture exams, embedded test questions, lab practical exams, and lab activities/reports
- determine/visualize the physical relationships of structures to one another at all levels of organization (i.e. comprehend the material). CS1 – Assessment = In class activities, lecture exams, embedded test questions, lab practical exams, and lab activities/reports
- collect and apply anatomical information to evaluate relevant clinical scenarios/problems (i.e. apply information you have learned). EQS1 – Assessment = In class activities, lecture exams, embedded test questions, lab practical exams, and lab activities/reports
- work effectively with others to support and accomplish a shared goal = CS1, TW2 – Assessment = In class activities, lecture exams, embedded test questions, lab practical exams, and lab activities/reports
- connect what she/he is learning to her/his own field (i.e. to make anatomy relevant to your own academic endeavors). Assessment = In class activities, lecture exams, embedded test questions, lab practical exams, and lab activities/reports

COURSE MATERIALS -Fund of Anatomy Package for Angelo State University:
**Use the text book as a reference unless you are told otherwise or like to read.
   NOTE: ➔ COURSE ID: MAPADKINS00449
   • Note – Either digital/electronic OR hard copies are acceptable, but a digital/electronic copy is included through Mastering A&P in the package/bundle (See ***below)
   • *** Items 1-4 are combined in one package/bundle ➔ Fund of Anatomy (loose pgs)(w/Anatomy Coloring Book & MasteringA&P with PH e Text Access)(ASU)(CUSTOM)
5. Top Hat Response System – Mobile/Electronic device driven platform that we will use in lecture for attendance, in lecture quizzes, and limited out of lecture homework activities. More information to follow via email and in class. http://tophat.com/. This is NOT included in the package/bundle. It is a separate purchase. Also, if you plan on taking BIO 2424 next semester, purchase Top Hat for a year. There is an app for both android and apple based smart phones and tablets
   NOTE: ➔ JOIN CODE: 681029
6. Non-sterile surgical gloves for lab dissections (you will need these the first day of lab)
7. Standard Human Anatomy Dissection Kit (optional...instructors will provide most dissection tools)
8. For lecture exams you will need to purchase (well in advance) and bring the day of your exams, Test-100 882 E Scantron Test Forms
INTERNET ACCESS IS **REQUIRED** for this course. Lecture and lab materials will be distributed routinely via the internet on Blackboard, via email and Top Hat. In addition to many lecture and lab resources, there are many study tips and strategies that you may find useful in your studies. You may access the web free at any computer lab on campus and from home. For more information call the Informational Technology department at 942-2911.

- You are required to have a **Blackboard** account and an official ASU email address. I will use these to make announcements, distribute materials and post grades. You can access blackboard 24/7 at [http://blackboard.angelo.edu](http://blackboard.angelo.edu). Please visit the site regularly. If you have not used Blackboard before, you may wish to review the tutorial by selecting “the help” icon or call the ASU Technology Service Center at 942-2911 (MCS-111) for assistance.

**CLASS PREPARATION:** In lecture I will clarify many, but not all of the concepts you are required to know. Therefore, **much of your learning will occur outside of the formal class meetings.** Educational research tells me that learning outside of class is more effective than learning that occurs in class. Therefore, to achieve these goals and maximize your learning, it is vital you attend class and come prepared. This means studying the assigned materials, completing coloring-book plates or other assignments, reading any on-line notes that I might post throughout the semester, and completing lab activities in the manual before lab. **Anatomy is not conceptually difficult, but like any science course the amount of material and unfamiliar terminology can make it seem unwieldy. This means it is largely your responsibility to learn the material presented, use the text as a reference, and complete the assignments on your own.** This requires you to possess a positive attitude toward learning and a serious commitment to studying outside of class every day, especially within 24 hours of class or lab. It also means participating in activities vital to the concept being taught that day to enhance the teaching of a particular subject. In other words don’t expect to learn anatomy just by sitting and listening in lecture. While this will enhance your learning, you must take an active role in your own learning by practicing anatomy every day. As a member of the class you are also:

- expected to attend and be prepared for all lecture and lab meetings.
- required to follow all directions/instructions both written and spoken.
- invited to ask questions (at the proper time of course), no matter how naive they seem to you. There are probably at least two other folks who have the same question. The only stupid question is one that isn’t thought out carefully before being asked.
- encouraged to ask for help and/or clarification. Don’t suffer in silence. I can’t help you learn if I don’t know you’re confused or if my instructions are unclear.
- encouraged (strongly) to use the Anatomy Study Strategies at the end of this syllabus (see below) which includes anatomy resources and study tips. If you are unfamiliar with how to study for a memory intensive course like anatomy, it’s definitely worth your time to take a look.

**WHAT YOU NEED TO STUDY:** Simply stated, these are the things you need to work on EVERYDAY. Start by organizing all your materials and making a study plan. Then implement and stick to it. See me if you need help.

**FOR LAB:**
- Lab Manual Summary Word Lists (See Appendix B in your lab manual)
- Lab Manual Exercises and Assignments
- Open Lab Attendance

**FOR LECTURE:**
- Posted lecture notes & activities (via Top Hat)
- Hand-written or typed lecture notes you take from PowerPoint presentations...**absolutely NO cell phone or tablet cameras are allowed for note taking.**
- Cell phones, tablets, or laptops will be used ONLY with the Top Hat Response System (or for typing your notes)
- Online lecture notes on Blackboard, Top Hat, or emailed to you (these are notes that we will not cover in lecture, but you are still responsible for the material on assessments)
- Coloring Book Plates (see lecture syllabus schedule below)
- Exam Checklists (located on Blackboard)
- Mastering A&P Assignments (see MAP calendar for due dates and times)
GRADE DETERMINATION: Your grade is will be based on the total point accumulation (not percentages) you earn on assignments and exams in both lecture and lab. Your grade will be determined by the number of points you earn on lecture exams, lecture activities, quizzes, Mastering A&P assignments, and Lab Practical exams. The total number of available points in the class is 1110. Final grades are assigned according to the following scale:

<table>
<thead>
<tr>
<th>Course Component</th>
<th>Maximum Points Available</th>
<th>Grading Scale (points needed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 Laboratory Practical Exams &amp; 2 Lab Assignments</td>
<td>510 points</td>
<td>900 or more = A</td>
</tr>
<tr>
<td>Lecture Exam 1</td>
<td>125 points</td>
<td>800-899 = B</td>
</tr>
<tr>
<td>Lecture Exam 2</td>
<td>125 points</td>
<td>700-799 = C</td>
</tr>
<tr>
<td>Lecture Exam 3</td>
<td>125 points</td>
<td>600-699 = D</td>
</tr>
<tr>
<td>Lecture Exam 4</td>
<td>125 points</td>
<td>599 or less = F</td>
</tr>
<tr>
<td>Lecture Activities, Quizzes, and Mastering A&amp;P assignments</td>
<td>100 points</td>
<td>Various Point Values – Serve as a built-in curve equal to 1 letter grade.</td>
</tr>
<tr>
<td>TOTAL</td>
<td>1110 points available</td>
<td></td>
</tr>
</tbody>
</table>

Please note I do not curve exams or final grades nor are they negotiable (i.e. an 899.94 pts = B; 599.94 pts = F, etc). Grades will be changed only if you can demonstrate (with verifiable evidence) that there was an error in how the grade was calculated or an incorrect grade was entered, but once the graded is posted on Black board you have only 48 hours to challenge it. (At the end of the semester is too late). See ‘regarding procedures’ below for a more complete explanation of how to do this. All students will be treated equally and fairly, and all grades will be calculated in the same way, regardless of extenuating circumstances or any reason not related to your actual performance in the course. However, as much as I may sympathize with your personal circumstances, I never consider them to be a basis for grading assignments. The activity points serve as an extremely generous, built-in curve. I strongly encourage you to take advantage of the activity points when they become available (at the end of the semester is too late!!!), because once assigned they cannot be made up. Therefore, you should always attend class and strive to do your best, so that you may earn the grade you want. It is your responsibility to keep up with your point total. Don’t worry I will help if you just ask!

ASSESSMENT MEASURES:

Laboratory Practical Exams: Your lab performance will be assessed with practical exams and lab activities. These will be discussed in more detail by your lab instructor.

Lecture Exams: In lecture your performance will be assessed by 4 lecture exams (see schedule) worth 125 points each for a total of 500 points in lecture. You are required to take all 4 exams, no exceptions. I will not drop any exam grades, but you will have the opportunity to replace your lowest exam score at the end of the semester (see make-up exams below). Lecture exams will assess your knowledge, comprehension, and application of the material presented in lecture, from on-line notes, assigned readings, MAP and Top Hat assignments, or other in-class or outside of class assignments made since the previous exam. A portion of your exams will also cover assigned plates, from the Anatomy Coloring Book 4th ed., that you should be able to label and/or identify (i.e. figures you have been assigned for study will be selected and used on each exam). See schedule for specific plate assignments. The exams will also assess your application of the content in the form of research based, application problem solving questions that will be assigned in advance from your exam/application checklists and/or text. The format of all the exams will be multiple-choice. Tentative exam dates are given in the schedule. Exams are designed to be completed in a 50- minute time frame. See your first exam/application checklists and Exam 1 Take-home Quiz for sample questions. Student conferences are required for any freshman who fails any exam, quiz, or assignment or who has a combined lecture/lab grade of less than 60%. Upper classman are also invited to meet with me at their discretion.

Exam Days: On exam days, you will need a couple of good #2 pencils with erasers. I will provide you with all other testing materials. You will also be expected to adhere to the following guidelines: Line up at the door and as you enter, randomly pick a seat that is not where you originally sit during lectures, place your books, backpacks, purses, caps, etc. under you desks or at the front of the lecture hall if we are in CAV 100. If you have something of value that you are concerned about, do not bring it on test day. Wear no hats or sunglasses. Electronic devices such as cell phones, MP3 players (iPods), tablets, laptops, recording devices, etc. are not allowed. You will not be allowed to carry your cell phone or pager, palm pilot, iPod, etc. during the exam. You must keep these devices with your belongings under your seats and in your backpack or purse. If you have these on your person or they go off during the exam, you will receive a ZERO for the exam in question and be dismissed from class. Please arrive as early as possible. The exam will begin promptly after the previous class is dismissed. If you need a left-handed desk, let me know as I hand you your exam. No talking is allowed once I begin to hand out the exam. You will also not be allowed to leave during the exam. If you have a question before the exam, wait until the exam has been handed out to all students before you ask. If you have a question during the exam, please raise your hand and meet me in the aisle. If you leave, you will have to turn in your exam. Please see me before the first exam, if you anticipate any problems with the procedures outlined above.
Make-Up Exams:
1. Lecture make-up exams will NOT be provided. This means there are NO make-up exams. No exceptions.
2. If you miss an exam (1, 2, or 3) for any reason, you will be required to take an additional comprehensive examination given after the final (exam 4). The comprehensive exam will consist of 100 multiple-choice questions covering all material from exams 1, 2, and 3. You must notify me within 48 hours if you miss an exam & need to take the comprehensive exam. The score on this exam will take the place of the exam you missed.
3. You will only be allowed to "make-up" one exam during the semester by taking the additional comprehensive exam. If you miss more than one exam for any reason, you will not pass this course.
4. You may take an exam early once, IF you have a university recognized, verifiable excuse, I have it prepared in time, and you take it at a time convenient for me. (You must meet all 3 of these)
5. Every student must take the final exam (exam 4). You will not pass the course if you do not take the final exam.
6. Those students who have taken exams 1, 2, & 3 may choose to use the additional comprehensive examination to replace their lowest exam score. You may replace only one exam score and you cannot use the comprehensive examination to replace the exam 4. The comprehensive examination will replace your lowest score on exams 1, 2, or 3. If your score on the comp. exam is lower, it will not count. Failure to follow the procedures outlined above will result in denial of the opportunity to take a make-up exam and result in a score of zero for the exam in question.

Lecture Activity Points: These serve as your built-in curve. The volume of material covered in this course makes it necessary for you to dedicate a sufficient amount of time each day, not only to attending class, but to studying material outside of class. To encourage you to keep up with this material and to provide a means of self-assessment, activity quizzes, activities, and assignments will be made periodically during the semester. There will be 100 activity points available throughout the semester in lecture. These activity points are the equivalent of a built-in curve equivalent to one full letter grade. Activities/quizzes/assignments will cover material presented in lecture or from other sources and may be incorporated into each lecture exam. These activities/quizzes/assignments will be announced in advance and taken in-class, out of class, through Blackboard, Top Hat, or the Mastering A&P software. Other activities (TBA) such as take-home assignments or in-class activities may be assigned which form the basis of a quiz/activity/assignment. These activities are designed to help you learn the material even better! Points will be assigned based on the difficulty of the task and will be accompanied by instructions, so that you may maximize your points. All points earned on these activities are considered activity points and will be added to your cumulative point total. Activity points will not hurt your grade and can only serve to make it better, just like a built-in curve. If necessary and at the discretion of the instructor, adjustments to activity points may be made at the end of the semester to compensate for minor inconsistencies. Again, these points can only positively affect your grade and in no way make it lower. While they can help improve your grade they do not make up for quality studying and good exam performance. Students who are not present for in-class lecture quizzes, activities, or assignments will not have the opportunity to make-up these points.
- Students who arrive late for class will not be given extra time to complete a quiz or assignment. In-class activity points cannot be made up.
- Mastering A&P or Top Hat assignments not completed by posted deadlines (no numerical grade is posted) will automatically receive a zero. Since these constitute activity points, they cannot be made up once given or assigned.
- Out of class assignments are considered late once class officially begins. Since these assignments constitute activity points, late take-home assignments will not be accepted and a zero will be recorded.
- Again, these are your built-in curve points and therefore we do not curve at the end of the semester. Please don’t wait till then to start being concerned about your grade.

Re-grading Procedures: A copy of an “answer key” for each lecture exam will be made available in my office after all exams have been graded and returned. You are encouraged to review the "key copy" to learn from your mistakes. You are also encouraged to confer with me via the outlined procedure below if you have concerns regarding your exam once you have compared your work to the key. To report calculation or grading errors on your exam, you are required to follow the Procedures for Re-grading shown below. Activity quizzes and assignments are not subject to re-grading, but math errors only.
1. If the error is strictly a mathematical error:
   - staple a note to your exam which reads “math only” & turn it in to your instructor for a grade recalculation.
2. If you believe you have found a grading error:
   - remember that a 1 pt error is at best only .0025 pts on your final course average.
   - remember the exams are photocopied immediately after you turn them in (e.g. I will know if you have changed an answer). It is an expense I wish I did not feel compelled to bear.
   - study the key before you request that any question(s) be re-graded. You must clearly state your reason(s) for thinking the question has been graded incorrectly in a neatly written, attached note. “Question X is graded wrong or I deserve more points on question Y” are not reasons. This means I expect a clearly delineated/thoughtful reason based on verifiable factual information that your answer is correct (i.e. from a reputable source like your text or lab manual). This means I expect a short paragraph for each error along with specific page references.
3. Staple your justification to your exam and turn it in to me. Understand I will be very fair and accurate, but the entire exam will be re-graded AND if the resulting grade is lower than the previous, the second grade will replace the first.
4. The deadline for requesting any recalculating or re-grading is **48 hours** following the posting of the grade on Blackboard...No Exceptions!!

**ATTENDANCE POLICY: Attendance will affect your grade in the course.** You are required to be in class every day and are responsible for all information given. ASU requires that attendance be checked at each class meeting. Attendance will be taken via the Top Hat Response mobile/electronic device platform. Anyone who does not respond during the time at which attendance is taken during lecture at each day’s meeting will be counted absent. You must stay for the entire lecture to get credit for attendance. Other means of taking attendance will also be used to cross reference the electronic attendance sheet. I do not give points for perfect attendance nor do I subtract points for excessive absences. Attendance will affect your grade in this course, however. You penalize yourself on exams when you miss class simply because you are missing learning opportunities and announcement or instructions, along with in-class activity points. For example, activity opportunities given in-class cannot be made up. Plus on average, students who miss a single lecture class score 6-8% lower than the class average on exam scores. This decreases about another 6-8% for missing two classes. Missing more than two lecture classes virtually guarantees a very poor exam score. In general it is true that students who exhibit erratic attendance do not perform to their full potential and may be perceived as having a lack of interest in completing the course. If a situation exists which is causing you to miss excessively, I encourage you to discuss the situation with me. Excessive absences are required by the university to be reported to the Registrar’s Office, the Dean of Student Life and/or the department head of your declared major. If you are an athlete, the NCAA compliance officer and your coach will be contacted. Contrary to popular belief, a student who fails to attend class is not automatically withdrawn from a course and will receive a grade that represents their performance throughout the entire semester.

**Academic Honesty/Plagiarism/Cheating:** No form of academic dishonesty will be tolerated. Angelo State University expects its students to maintain complete honesty and integrity in their academic pursuits. Students are responsible for understanding and following the ASU policies on academic dishonesty contained in both print and web versions of the Student Handbook. Students in this class are expected to submit work in accordance with the guidelines of academic honesty provided by the handbook and/or their instructor. The penalty for ANY act of academic dishonesty is a grade of ZERO on the assignment and disciplinary action as warranted by the university guidelines that includes dismissal from ASU.

**Angelo State University – Honor Code:** ASU expects its students to maintain complete honesty and integrity in all of their academic pursuits. Students are responsible for understanding and following the Academic Honor Code as outlined on the university’s web site and in the Student Handbook.

**Withdrawal From the Course:** Contrary to what many students believe, you are not automatically withdrawn from a course if you cease to attend lectures or labs. If you wish to discontinue participation in human anatomy, you must formally withdraw by seeing your lecture instructor. Dropping the lecture automatically drops the lab, no separate drop slip is necessary. Failure to do this can result in a grade of F appearing on your academic transcript. Dropping the lecture automatically drops the lab. The last day to drop the course is **Friday, 3rd November.**

**Special Needs/Disability Statement:** Persons with disabilities, which may warrant academic accommodations, must contact the Student Life Office, Room 112 University Center, in order to request and to implement academic accommodations. Angelo State University is committed to the principle that no qualified person shall, on the basis of disability, be excluded from the participation in or be denied the benefits of the services, programs, or activities of the University, as required by the Americans with Disability Act of 1990. However, all students at Angelo State University must have the capacity and ambition to undertake, with reasonable assistance from the faculty and administration, the academic challenges necessary to fulfill the academic requirements for the degree or certification programs they are pursuing. Any accommodations will require documented, verifiable evidence from an accredited professional. If you believe your success in the course is at risk due to a disability, it is your responsibility to arrange a meeting with me by the end of the first week of classes, so that we may further assess your situation. I will work with you to provide reasonable accommodations so that you have a fair opportunity to perform successfully in this class, but only if you take responsibility. You must meet with me well in advance, so that I may help you. Right before a quiz, practical, or exam IS not taking responsibility.

**Religious Holy Day** A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence AND the first week of classes. Any make-up assignments will need to be completed and turned in well in advance. If an exam is missed, see **Make-Up Exams** above.
Electronic devices such as cell phones, smart watches, iPods, pagers, etc. are not allowed to operate (i.e. ring/play/talk/text/camera use) during formal lecture or during exams. The ONLY use of an electronic device will be for the Top Hat Response mobile/electronic device platform for attendance and in-class activities OR used in written/typed note taking. NO CAMERA

**USEAGE IS ALLOWED DURING LECTURE.** After an initial warning, **five points will be deducted** from your point total for each time they ring/chime/take video or a photo, etc...or you talk or text on them during class. You will also NOT be allowed to carry your electronic devices (this includes smart watches) during lecture exams or lab practical exams. No exceptions. If you carry them during a lecture exam or lab practical, you will automatically **receive a ZERO** AND will be immediately dismissed from class. These uses of such devices (other than writing/typing notes or recording attendance) are considered by the biology department to be a disruption as well as a distraction to your fellow students and to the instructor. If the disruptive behavior continues, you will be reported to the Dean of Student Life and your department head. If you use them during an exam, you will be reported for academic dishonesty and violation of the ASU Academic Honor Code. If you would like to use typed/audio recording devices such as tablets/laptops/tape recorders only during lecture, please ask.

**Supplemental Instruction is available for this course.** SI sessions are student led, group study focused on helping you learn to be successful in human anatomy. Sessions are regularly scheduled, hour-long meetings wherein you will be able to participate in group discussion about the lecture and assigned readings, including exam/application checklist questions. SI sessions cover the following:

- Key course concepts and how to identify important material
- Clarification of lectures and text; Efficient organization of course material
- Development of possible test questions and taking mock exams
- Problem-solving techniques and Critical thinking skills
- Study skills strategies (e.g., understanding lectures, effective note-taking, textbook reading, etc.)
- They will not help you complete homework/activity assignments.

The cost is absolutely FREE to students enrolled at ASU. SI leaders are former Anatomy students who performed exceptionally well in the course. SI Leaders are trained to lead small group discussions and assist you with problematic course concepts. Preliminary results indicate students who attended SI earned on average earn one to one and half letters grade higher on lecture exams than students who do not attend. More information will be provided later.

**Get Started with Pearson’s MasteringA&P**

First, make sure you have these 3 things…

1. **ASU Email:** You'll get some important emails from our instructor at this address.
2. **Course ID:** Ask your instructor for your Course ID! *(See note below)*
3. **Access code or credit card:** The required access code comes either bundled with your lab manual or by itself at your bookstore. Alternatively, you can buy instant access with a credit card or PayPal account during registration.

   **NOTE:** Course ID is MAPADKINS00449

Next, get registered by following **ALL** online instructions **CAREFULLY**!

2. Under the large Register Now section on the right side of the page, click the Student button.
3. Read and follow **ALL** onscreen instructions **CAREFULLY!!**
4. You are now registered! Now, it’s time to sign in.
5. Go to [www.masteringaandp.com](http://www.masteringaandp.com) and click the Sign In button at the top right. Enter your username and password.

Need help? Visit (Student) Support for:

- Helpful videos
- Frequently Asked Questions
- System Requirements
- Other helpful “getting started” info!

Or visit the 24/7 Technical Support site at [http://247pearsoned.custhelp.com](http://247pearsoned.custhelp.com).
BEFORE MAKING AN APPOINTMENT WITH ME FOR HELP, READ THIS SECTION!!

STUDY TIPS specifically designed for a memory intensive course like anatomy are available on Blackboard. If you are unfamiliar with how to study for a course like anatomy or how to manage your time effectively, it is well worth your time to take a look. This is especially important if you are a true freshman or have never taken a science course at ASU before. If this description fits you, please make an appointment with me as soon as possible so we may discuss a study work-out plan for you.

A SPECIAL NOTE: We are excited you decided to travel with us this semester on a fascinating journey through the human body. Anatomy is the ABC’s of biology. It is fundamental and absolutely essential in understanding biology and an integral part of many other disciplines such as physiology, medicine, athletics, natural history, psychology, nursing, and other allied health sciences. Since Anatomy is taught in an academic setting, it requires a great deal of conceptual understanding and rote memorization...and although most of anatomy is straight forward, the amount of material and unfamiliar terms make it a seemingly difficult subject. You absolutely must prepare for class and study every day to earn the grade you want. This requires you to PDA… practice (the content), be disciplined (to study), and possess a positive attitude (about the course). Any deficiency in these learning characteristics may affect your ability to learn and thus the grade you earn in the course. Let me put it this way. Some students who have never had a “real” science class before employ the same study strategies they have used in other classes only to find they are a dismal failure. For example, some students find that studying 30 minutes to an hour (or even not at all) before an exam in their major can easily earn “C’s” (or even B’s) with no problem. That same strategy used in anatomy virtually guarantees you will be unsuccessful. You must therefore change your study habits to accommodate this science course. Anatomy requires you to be disciplined to study EVERY DAY! Therefore it is VITAL that you keep up with your studies starting from DAY 1. Students who get behind often have difficulty catching up because of the ferocity of the schedule and the amount of material covered on each exam. Don’t worry many students are extremely successful in this course. The key to success often starts with budgeting your time carefully and making lots of room for anatomy in your schedule...again...we recommend 2-3 hours/day everyday OUTSIDE of class. Successful students in the past have told us that is just about right. Like learning a foreign language, some students prefer the total immersion in the material which may help you as well. I can show you how to maximize your study time, so please don’t hesitate to ask me. I’m here to help you learn! Yes, I do care about your success. Yes, I’m here to help! Yes, you can do it! See the study tips on Blackboard for more information. I know that anatomy can seem overwhelming at times, but it really can be easy IF you are just willing to put time and effort into the course. It will take intense dedication on your part, but I will do everything I can to help you achieve your learning goals.

If you are unfamiliar with or unaccustomed to studying for a memory intensive, science-based course like human anatomy please review the study tips on Blackboard for useful information that has helped students just like you! Read on for more information.

WHAT YOU NEED TO DO TO EARN AN A (OR THE GRADE YOU WANT): The fact that you’re reading this shows that you have the potential to be an “A” student. In fact, I would like for every student in this class to earn an A. Read that again....Shocking isn’t it? Yes, believe it or not I want you to do well and if you’re reading this, I sincerely believe you have the potential to do so in this class. I will do everything in my power to help YOU EARN the grade you want, but you’ll have to do your part too which means studying for complete understanding every day, attending class and lab, and learning beyond just memorizing the facts.

Anatomy is conceptually easy to understand, but learning it will require much effort on your part. Many students after an exam say, “but I knew the material,” or “I even studied for 8 hours,” and are truly bewildered by a grade lower than they anticipated. The problem is that there’s a big difference between understanding something you hear and/or read and knowing it. Understanding is what has to come first, but knowing is beyond even that. Knowing requires being able, without reference, to (1) repeat what you hear/read, accurately and completely, AND (2) use what you’ve heard/read to figure out things you’ve never seen before at all! In other words using what you know. Don’t let time dictate your studying; let learning. Study until you “learn” the material, no matter how much time it takes.

Also consider that knowing requires a degree of familiarity and usefulness of the material that cannot occur overnight. Cramming doesn’t work. I suggest you spend “quality time” with anatomy every day. Also don’t be deceived by the large amounts of free time in your schedule. They simply do not exist. The general rule of 3 hrs of outside study a week for each hour of course credit is no joke. Such experiences have led to the classification of a person carrying 12 semester hours as a full-time student.

Here are some examples:

- 3 hours of outside study/hr of class x (12 class hours) = a 36 hour work week outside class + 12 hours in class = a 48 hour week (i.e., College is a full time job!).
- Or to put it differently 75% of what you accomplish is done on your own. This may be vastly different from your experience in high school or other courses. Please believe me when I tell that studying for just 30 minutes before an exam or practical will not work in this course. You therefore must accept responsibility for much of your own learning.
Based on the experiences of successful anatomy students of the past, we have prepared this list to assist you in your studies.

**STUDY STRATEGIES OF A and B STUDENTS in HUMAN ANATOMY**

Based on the experiences of successful anatomy students of the past, we have prepared this list to assist you in your studies. Listed below are the top study strategies of A and B students consistently reported to us in surveys.

1. **Reread your lecture notes and lab material EVERY DAY after class.** Research shows if you read your notes for 10-15 minutes a day, you will absolutely do better on your exam than if you didn't. Why? because you won't have to cram in the end. You will already be familiar with your notes. In addition, you will have discovered early on what you do not understand and can get help well before the exam. This is far the most common strategy used by A and B students. Repetition simply works!

2. **Recopy/Reorganize your notes** - Some folks simply recopy their notes after lecture. Others will reorganize them and incorporate information from their text to supplement those taken in lecture. Still others take notes using the 3-column method. One large central column is used for notes. Two smaller peripheral columns are used for the actual reorganization. One column is used for generating questions, ideas, and comments, the other for the actual reorganization of the notes. People tell me it works. The idea is to spend as much time as possible with the material and to get help with concepts you do not understand early.

3. **Study the coloring book plates and lecture notes at the same time.** This is an excellent way for you visual learners to maximize your study time. The coloring book structures most often asked on exams are the ones covered in the lecture notes. So while your study the “liver” in your lecture notes, have the coloring book plate open to the “liver” to visualize the textual material you’re reading. You’ll automatically be studying for both portions of your lecture exam. Also since many coloring book plates are duplicated between lab and lecture, you’ll also find you’ll be able to “double dip.” Those plates you are required to know for lab are also the same plates you have to know for lecture. If you learn it well the first time, it will only take a brief review later. This can help you maximize the number of points you are able to receive on both lecture and lab.

4. **Form study groups and go over material together.** If used properly, this is a great way to study. Schedule weekly meetings with your group to “go over the notes.” You can see if everyone else got the same thing out of lecture as you did. If things are not clear, you can make a list of questions and ask your instructor for clarification. Likewise in lab having a consistent study partner quiz you can help you know early on whether you are retaining the material.

5. **Develop the habit of asking questions to yourself and to your study group.** For example, "What would be a good test question from this material? What don't I understand about this? What is/are the main idea(s)/process(es)/application(s) of this topic? Why and When do they happen? etc." You'll find that you will begin to anticipate the actual test questions! Good students always ask questions. This shows they are enveloping themselves in the culture of the course and constantly reviewing the material in their minds so that it makes sense. Psychology tells us this is how most people learn...by asking questions.

6. **Manage your time efficiently** and prioritize/schedule your days to include school, work, family, fun, friends, health, and exercise. Calendars are wonderful things and no college student should be without one. We recommend writing down exam dates, etc., from all your courses so you'll always know what's coming. In addition, it is also helpful to write down your work schedule and or any other important dates. A and B students know how to prioritize and most tell us they do study 10-15 hours a week for anatomy alone. They break the material down into manageable chunks (i.e. a little everyday) and don’t ever procrastinate.

7. **Attend lecture and lab.** Some of the topics and specific examples we will use you will not be able to get unless you come to class or discussion. Attendance and participation are vital to your success in this course. Our statistics tell us that A and B students almost never miss class or lab. Those students who miss just one class or lab score on average 8% lower than the class average.

8. **Make a vocabulary sheet/or flashcards and keep them with you at all times.** Yes this is just what you did in high school, but it works. Lots of students find that this helps them learn the vocabulary quickly and easily. You can pull them out anywhere and review. You'll be surprised what you can learn waiting in line for 10 minutes. Remember you will learn as many new words this semester as you would in a beginning foreign language course (about 3500 or so).

9. **Internalize New Words.** To internalize (learn) a new word, to make it truly part of your vocabulary, you must use the word and use it often. Write it and speak it at every opportunity. Make opportunities to do so. Yes, I just said this, but it is worth saying again. Don’t just stare at the diagrams and illustrations in your references; draw on your own...and label them! Test your...
comprehension and retention by discussing the material. Study in a group. Set up weekly meetings to “go over the notes.” But don’t permit anyone at any time to substitute words like “thingy,” “stuff,” “doodad,” or “dealie” for the proper words required. You’ll defeat the whole purpose of discussion if you do.

10. **Read your text and lab manual before (or after) class.** Reading can help solidify your understanding of the material and help you retain information. For example, if you’ve read material ahead of time and then hear it in lecture, you’ve just helped your brain make an association between the two sources of information. Conversely if you read your text after lecture and remember me lecturing about it, you’ve just made another connection. Psychologists tell us that’s the first step toward learning…making associations. Ask me about successful and efficient ways or reading your textbook assignments.

11. **Take advantage of lab time/extra lab time.** The lab portion of this course is vital to you success. Lab is scheduled for 3 hrs/week that may not be enough for you. You need ALL of that time and more if its available...read that again. You need to always come prepared to work and stay the full 3 hours. A and B students often read ahead to get a jump on things and frequent open lab every chance they get. Anatomy lab requires a high level of comprehension and familiarity that only come with hands on experience and lots o’ practice. It still amazes us when people goof off in lab or consistently leave early and then come crying to us when they perform poorly on the practicals. To do well in this course you need to take advantage of lab time. A & B students do. We simply can't help you if you're wasting time/leaving early/or not attending lab.

12. **Same as number 1. This should tell you how important it really is.** The single most important study strategy you can implement in human anatomy is reviewing and recalling your lecture and lab material every day, especially within 24 hours of each lecture class and lab. The figure below shows what happens if you review and recall your notes within 24 hours or not. For those students who review and recall their lecture and lab notes everyday within 24 hours, one can almost guarantee success in recalling material even after 63 days. There is such a drop in retention of material if you wait 24 hours to review that it becomes very difficult to master the course with the amount of material we have. This is especially true if you try to cram all the material in the night (or even several days) before a lecture exam or lab practical. Why does reviewing and recalling your notes and lab material within 24 hours of class work? Basically there are two causal explanations. One is that you won’t have to cram. You will already be intimately familiar with your notes when the exam arrives. In addition, you will have discovered early on what you do not understand and can get help well before the exam. Again this is by far the most common strategy used by A and B students. **REPETITION works**...and...it won’t get done by itself.

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Forgetting Curve: Robinson, F. P. *Effective Reading.*

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There is a greater drop in retention in 1 day without reinforcement than in 63 days, if recall and review are used.

(1405) Learning Skills Center - Jester A332 - 471-3614 - University of Texas at Austin
<table>
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<th>Topics in Approximate Order</th>
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<td>Special Senses: Visual, Gustatory, Auditory, Olfactory</td>
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Exam 1 = 125 points (Monday – 18 September)  
My Score = ____________

Exam 2 = 125 points (Monday – 16 October)  
My Score = ____________

Exam 3 = 125 points (Friday – 10 November)  
My Score = ____________

Exam 4 = 125 points & Comp. Make-Up...  
Wednesday 13 December  
@ 1:00-3:00PM  
My Score = ____________

Various  
MAP or Top Hat Assignments, Activities, & Assessments (In and out of class)  
TBA