BIOLOGY 120 - HUMAN ANATOMY  
Summer 2019  
LECTURE AND LABORATORY SYLLABUS

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Office Hours: During scheduled lab time and by appointment

Prerequisite: There are no prerequisites for this course, however one semester of college chemistry and/or biology is recommended but not required.

Textbook: McGraw Hill Connect Plus Web Access Card for Saladin, Kenneth, “Anatomy & Physiology: The Unity of Form and Function”, 8th ed., 2018, McGraw Hill Publishing. This will give you access to online homework, study modules, interactive cadaver software, and an E-Book. You will have the option to pay a small fee for a print copy of the lecture text if you wish. Lab text “Laboratory Exercises for Human Anatomy, by Candi Heimgartner, published by Morton Publishing, 2017. Diagrams, lecture material and related exam questions may be taken from these texts for use during the course. I also recommending use of the supportive material provided with the texts including web access to material, accompanying CDs and atlas.

Recommended texts: Van De-Graaff etal. “A Photographic Atlas for the Anatomy and Physiology Laboratory, 6th Ed. I recommend this text for those that like additional diagrams and figures. For those students that like application type exercises, I recommend “A Visual Analogy Guide to Human Anatomy and Physiology” by Paul Krieger.

Course Objectives: This course will provide a basic overview of human anatomy. For the students pursuing careers in the Allied Health Sciences and Physical Therapy curriculums, this course will be your primary exposure to human anatomy. It is important to learn how the healthy body is designed before you can learn in future classes how these structures perform specific physiological functions and how disease and injury impair function. The goal of this course is to provide a fundamental background in human anatomy to enable you to be successful in an allied health career, as well as future exams and future courses related to human anatomy. It is important to remember that anatomy is the study of structure and therefore memorization is a key tool that will enable you to master the material in this course. You will also need to be able to think critically about the material and apply learned concepts to generalized situations.
**Course Learning Outcomes:** In accordance with UI Learning Outcomes, it is expected that students will:

- **Learn & Integrate:** Students will apply their previous and gained knowledge of the human body to gain a basic understanding of anatomical structures.

- **Think & Create:** Students will be expected to apply the concepts and approaches learned here to solve future anatomical, physiological, and academic problems.

- **Communicate:** Students will be expected to better communicate with others using the vernacular and nomenclature of human anatomy.

- **Clarify Purpose & Perspective:** It is expected that all students will gain important insights into the human body and the physical world that helps to support anatomical study.

- **Practice Citizenship:** It is every student’s responsibility to share their knowledge and appreciation of the human body and its anatomical structure and composition.

This course is offered in the Department of Biological Sciences, College of Science, University of Idaho, Moscow, Idaho. This course and the instructor will comply will all Federal, State, and University laws, rules, and policies. These include, but are not limited to the following:

- **Academic Integrity**
  - I will not tolerate any form of cheating in this course, either in lecture or lab. Any individual that is observed cheating by the teaching assistants or myself will be dealt with according to the university regulations.

- **Students with Disabilities/Disabilities Support Services**
  - Reasonable accommodations are available for students who have documented temporary or permanent disabilities. All accommodations must be approved through Disability Support Services located in the Idaho Commons Building, Room 306 in order to notify your instructor(s) as soon as possible regarding accommodation(s) needed for the course.

- **Discrimination**

- **Classroom Civility**
  - In any environment in which people gather to learn, it is essential that all members feel as free and safe as possible in their participation. To this end, it is expected that everyone in this course will be treated with mutual respect and civility, with an understanding that all of us (students, instructors, professors, guests, and teaching assistants) will be respectful and civil to one another in discussion, in action, in teaching,
and in learning. Should you feel our classroom interactions do not reflect an
environment of civility and respect, you are encouraged to meet with your instructor
during office hours to discuss your concern. Additional resources for expression of
concern or requesting support include the Dean of Students office and staff (5-6757),
the UI Counseling & Testing Center’s confidential services (5-6716), or the UI Office of
Human Rights, Access, & Inclusion (5-4285).

- Family Educational Rights and Privacy Act (FERPA)
- Emergency Management
- Weapons
  - "The University of Idaho bans firearms from its property with only limited exceptions.
    One exception applies to persons who hold a valid Idaho enhanced concealed carry
    license, provided those firearms remain concealed at all times. If an enhanced
    concealed carry license holder’s firearm is displayed, other than in necessary self-
    defense, it is a violation of University policy. Please contact local law enforcement (call
    911) to report firearms on University property."

Students are expected to adhere to the University of Idaho Student Code of Conduct.
If you have any questions or concerns regarding these topics, please contact the
administrative offices of the University of Idaho.

http://www.uidaho.edu/about/administration

Exams and Grading: This course is normally designed around a 50 minute lecture
three times a week as well as an associated laboratory portion of one 3 hour session
per week during the academic year. However, it is greatly accelerated during the
summer session and based on six hours of lecture and six hours of lab time PER WEEK.
The lecture will present material related to microscopic and cellular anatomy while
the lab will be used to demonstrate these structures and present anatomical
structures on a macroscopic level. Your grade in this course will be based on: a
lecture midterm and final exam (each worth 200 points), a lab midterm and final
exam (each worth 100 points) and nine lab quizzes (each worth 25 points/225 points
total). There will be 175 points of online pre/post lecture homework assignments
and/or quizzes on Connect Plus and/or in class. This is a total of 1000 points in the
course.

Due to the nature of human anatomy, each lecture exam is considered
comprehensive. This means that in order to understand how the lungs are designed,
you must have a solid background in cellular anatomy.

In order to reschedule an exam, you MUST have an official university excused
absence. This is limited to athletic travel and doctor recommended absences ONLY.
See your student handbook for official descriptions of excused absences. If you need
to miss an exam for ANY other reason, this is your choice, but you will receive a zero
for this exam. If you have any questions about this policy or know of an excused
absence during an exam time, you MUST contact me at least ONE WEEK BEFORE to the
scheduled exam. Not showing up for an exam means that you earn a zero. Any
rescheduled exams time and format will be at the discretion of the instructor. The
final exam may not be taken early for ANY reason.
Lab exams cannot be rescheduled outside the week of exams regardless of circumstances. In order to take a lab exam in an alternate section due to an excused absence, you must contact me and the TA, in writing, at least one week prior to the scheduled exam. Lab exams will include both written and identification questions.

If you think that your exam was incorrectly graded, you must submit your concern to me IN WRITING no more than three class days following the exam. I will NOT entertain verbal requests for additional points, but I would be happy to recheck your exam if you submit your request in writing in a timely manner. Grading concerns must be typed, in a memo format and contain the question number and explanation of the concern. These will be returned following the submission deadline for each exam. Grading concerns may NOT be submitted via e-mail. Writing assignments/online homework and quizzes are exempt from this grading concern submission policy.

Any subsequent concerns or policies concerning grading and exams may be found in your student handbook and corresponding catalog for reference. These publications will be referred to concerning any other aspects of examinations and student grades.

**Lab Fees and Policies:** Lab fees may be reimbursed only if the course is dropped within the first two weeks of the semester. A credit to your account will automatically be processed by Accounting Services.

Lab attendance is required and will be determined by recording quiz grades each week. All other lab policies pertaining to this course can be found in the attached sheet entitled “Laboratory Policies”.

**Cell Phone and Computer Use:** Cell phone use during both lecture and lab sessions are prohibited. All cell phones must be turned off and stored prior to entering the lab or lecture hall. Failure to do so may constitute your dismissal from the course or a failing grade. Portable computers may be used ONLY with the prior approval of the instructor. Any unauthorized use of portable computers during lecture or lab may constitute your removal from the course or a failing grade. Computer stations will be provided for lab work in the laboratory.

**Suggestions for Success:** This course is very fast paced and integrated. It is therefore very important that you keep up with study of the material. If you fall behind, I suggest dropping the course. It is extremely difficult to catch up in a course that builds on presented topics throughout the semester.

I suggest reading the chapter summaries before attending the lecture on the material. Don’t worry about the details in the chapter, we will cover those in lecture. Complete the online “pre lecture” models prior to coming to class. The deadlines for these assignments are strictly upheld and will be early morning prior to lecture. After attending the presentation, I suggest THEN reading the chapter front to back, reviewing your lecture notes at the same time. Highlight or otherwise note key concepts during this phase of study. The following day, review these key concepts and incorporate the new material. In this manner, you will be able to
simply review the key concepts the day before the exam since you have seen them everyday prior!

Since this is not a web-based course, I will not post lecture notes or outlines on the web, but I will post the PowerPoint slides online before each lecture. You may print these slides at your convenience to use during the lecture presentation.
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HUMAN ANATOMY LABORATORY POLICIES

Laboratory Location: The human anatomy laboratory is located in the basement of Food Science. You enter the lab from Line Street, directly northeast of the Commons.

Explanation of Laboratory Exercises: The laboratory exercises have been carefully prepared to allow each student to examine and learn the major structures of the human body. The course follows a system by system approach.

Prior to exposure to human cadavers, you will receive a brief introduction to how a cadaver looks and smells and their use in the study of human anatomy. Included in this discussion will be policies concerning the handling of cadavers in this course.

Laboratory Objectives and Learning Outcomes: The main purpose of the laboratory portion of this course is to allow you to study the location and anatomy of major organs that constitute the human body. Consequently, you will see many specimens, models and prosected cadavers. To master the subject matter, you will learn many new names and terms. To assist you in these endeavors, a laboratory manual has been especially selected for such purpose.

You should prepare for each laboratory session prior to coming to the laboratory by reading the assigned chapter in the laboratory manual and studying the illustrations. I suggest completing the “pre-lab” portions of your lab manual, but I won’t call for these or attach points for their completion. Becoming familiar with the subject matter prior to coming to the laboratory will make the laboratory exercises less stressful and the learning of the material more interesting. In the laboratory, you are encouraged to work in groups and to share your knowledge with your fellow students.

Laboratory Exams and Grading: There will be laboratory midterm and final exams worth 100 points each. These are not comprehensive in that they will not include specific information about material on the previous exam. However, keep in mind that the nature of anatomy leads to overall system comprehension. These exams will contain both written and identification portions. Also included in the laboratory section of the course are quizzes totaling 225 points over the course of the semester. These quizzes will be given during most lab sessions and cover information from the previous lab as well as the introductory material for the current lab exercises. This will give you a chance to review the material prior to the exams. These questions can be in any format including written or identification.

You are allowed six hours each week for study in the human anatomy lab. It is suggested that you use this time wisely. Open lab review sessions will be planned prior to each exam IF students adequately use the time during each lab session. These review sessions will be planned by the teaching assistants at their discretion and will be used ONLY as a review time, not a cram session.
**Teaching Assistants:** Most of the teaching assistants who will work with you in the laboratories are students like you; they have volunteered and have been personally selected by the instructor to help you in this course. This fact alone makes this course unique. The qualification for a teaching assistant is to have successfully completed the course in a prior semester with a grade of a B or better. The teaching assistants are expected to treat you with respect and to be as helpful to you in the laboratory as possible. I expect the same respect from you as a student when dealing with teaching assistants. I will not tolerate any rudeness, harassment of any kind, intimidation or any form of discrimination directed at these teaching assistants. These TAs are invaluable to you in that they can provide learning techniques that proved successful for them in the past and can provide more individual attention than is possible of the instructor alone. I will attend each lab session as my schedule permits and work directly with you and the TAs. However, due to scheduling, I may not be able to attend all lab sessions, so become familiar with your teaching assistant for help and learning tools. If you have any problems with the TAs, see me ASAP.

**Concerning the Cadavers:** A special note concerning the use of cadavers in this course. These cadavers have been donated to the University of Idaho WWAMI Medical Program and represent the most valuable specimens that we have for the study of human anatomy. You are required to treat the cadavers with the respect and consideration due a living person. The cadavers are to be referred to by their sex or tag number ONLY. Neither the teaching assistants nor I will tolerate any signs of disrespect for the cadavers and doing so could result in your dismissal from the course.

The cadavers have been provided for the students of this course to learn the human body. NO outside visitors or guests are allowed into the lab at any time under any circumstances to view the cadavers. NO photography of any kind is allowed. Because of this, NO cell phones are allowed in the laboratory. Leave all cell phones at home or turn them off and store in your bag as you enter the laboratory. Failure to comply with this rule can create legal problems for both you and the university, will not be tolerated, and will constitute your dismissal from the course.

Although the cadavers have been dissected prior to the laboratory session, it is your responsibility to maintain the condition of the cadavers during the lab sessions. This includes handling labels with care and using the wetting solution provided to keep the cadavers moist. Wear gloves at all times when handling the cadavers and dispose of these properly.

If you are pregnant or become pregnant during the semester, you must contact the UI Safety Officer. This is your responsibility!
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TENTATIVE COURSE SCHEDULE

Monday, May 13th
Introduction to the Course and Syllabus
Chapter 1 - Overview of Anatomy
Chapter 3 - The Study of Cells

Tuesday, May 14th
LAB Exercise 1 - Introduction to the Human Body
Exercise 2 - Introduction to the Skeletal System

Wednesday, May 15th
Chapter 3 Continued - Organelles
Chapter 5 - The Study of Tissues, Glands and Membranes

Thursday, May 16th
LAB Quiz 1 (25pts)
Exercise 3 - Bones of the Appendicular Skeleton

Monday, May 20th
Chapter 6 - The Integumentary System
Chapter 7 - Bone Tissue

Tuesday, May 21st
LAB Quiz 2 (25pts)
Exercise 4 - Bones of the Axial Trunk
Exercise 5 - Bones of the Skull

Wednesday, May 22nd
HAPS Conference - Portland, OR
LECTURE CANCELLED

Thursday, May 23rd
HAPS Conference - Portland, OR
LAB CANCELLED

Monday, May 27th
MEMORIAL DAY - No Classes

Tuesday, May 28th
LAB Quiz 3 (25pts)
Exercise 6 - Introduction to Articulations
Exercise 7 - Introduction to the Skeletal Muscular System
Exercise 8 - Muscles of the Upper Appendages

Wednesday, May 29th
Chapter 9 - Articulations
Chapter 10 - The Skeletal Muscular System

Thursday, May 30th
LAB Quiz 4 (25pts)
Exercise 9 - Muscles of the Lower Appendages
Exercise 10 - Muscles of the Trunk

Monday, June 3rd
Chapter 11 - Microscopic Muscular Anatomy
Review for Lecture Midterm Exam
Tuesday, June 4th  
LAB : Quiz 5 (25pts)  
Open Lab/Review for Midterm Lab Exam

Wednesday, June 5th  
**MIDTERM LECTURE EXAM (200 points)**

Thursday, June 6th  
**MIDTERM LAB EXAM (100 pts)**

Monday, June 10th  
Chapter 12 - Introduction to Nervous Tissue  
Chapter 14 - The Brain

Tuesday, June 11th  
LAB : (No Quiz)  
Exercise 12 - The Brain and Cranial Nerves

Wednesday, June 12th  
Chapter 13 - The Spinal Cord and Spinal Nerves  
Chapter 19 - The Heart

Thursday, June 13th  
LAB : Quiz 6 (25pts)  
Exercise 11 - Introduction to Nervous System - Spinal Cord  
Exercise 14 - Cardiovascular System - The Heart

Monday, June 17th  
Chapter 20 - Blood Vessels

Tuesday, June 18th  
LAB : Quiz 7 (25pts)  
Exercise 13 - Introduction to the Cardiovascular System  
Blood Vessels

Wednesday, June 19th  
Chapter 22 - The Respiratory System

Thursday, June 20th  
LAB : Quiz 8 (25pts)  
Exercise 15 - Introduction to the Respiratory System

Monday, June 24th  
Chapter 25 - The Digestive System

Tuesday, June 25th  
LAB : Quiz 9 (25pts)  
Exercise 16 - Introduction to the Digestive System

Wednesday, June 26th  
Chapter 23 - The Urinary System

Thursday, June 27th  
**FINAL LAB EXAM (100 pts)**

Monday, July 1st  
**FINAL LECTURE EXAM (200 pts)**