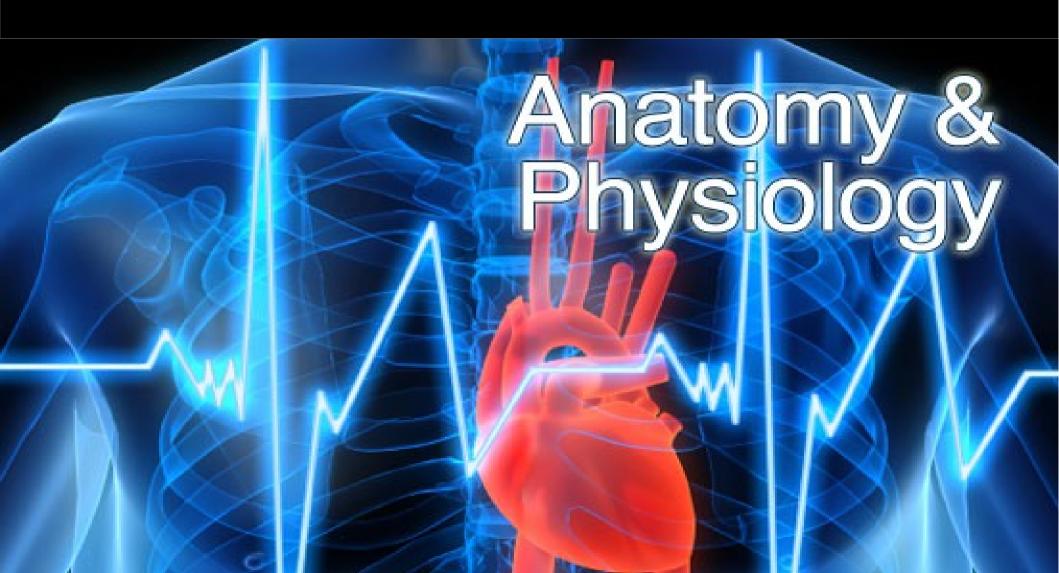
# Welcome

Cliff Belleau MS – Adjunct Professor



# Learning AP is fun!

- My goal is to teach you how to "learn human anatomy and physiology". To do this, I may need to help some students develop new behaviors for study and learning.
- You are in college now so I will assume that you are an adult. So you will conduct yourself as responsible adults!
- We have shared responsibilities
  - Be on time
  - Respect your classmates, support staff, and faculty.
  - Respect the lecture and lab resources.
  - You need to ask questions if you don't understand something.
  - You must come to class prepared for the lectures and labs. I will have more to say about this.

## About AP at MC3

- This is an introductory college level anatomy and physiology course. We will not cover every topic in the textbook, however. You still need to read the book. Focus on the topics to be covered in lecture. Read the book before we cover the topics in lecture. This is part of your preparation for the lecture!
- The course is designed for students interested in a career in allied health care.
- You will have access to my Web site. It is designed to help you pass this class. The Web site has my lecture slides, chapter study guides, Science Department's Learning Objectives, instructional videos, and other learning resources. The site domain name is www.mc3cb.com
- The Web site has "extra in-depth content" not required but available for curious students.

# Expectations

- You should have expectations about your professor, that's me! So, I'll assume that you want a professor who is knowledgeable, passionate, and dedicated to helping you achieve your career goals. You also want your professor to be on time for class and be prepared for your lecture and lab sessions. **This is my promise to you!**
- I too have expectations for my students. I assume that you are passionate, curious, and need to learn anatomy and physiology. I also assume that you will follow the **Michigan Educational Association's bench mark for study time** required to learn new lecture material. This benchmark tells us that you will need to study "two to three hours" for each lecture hour. If you factor in lab preparation then a reasonable expectation is "THREE HOURS PER DAY, SEVEN DAYS A WEEK", for the next 16 weeks.
- This "study time" is also necessary on days when we have class! If you can't find time to study, then you will fall behind and you will not be able to catch up! If you do not have a solid science background then you may need to spend more study time per day to keep up with the class.
- Success in this class is all about "time on task"! If you are not willing to put in the time then you should not take this class. Remember, study time is an investment in your future. Without the study time it is unlikely that you will be able to earn an "A or B" If you study only one hour per day then you will likely fail this class. However, if you do what I ask you to do, then you should be able to earn an "A or B" in my class. (See Daily 24 Hr Worksheet)

## MC3 Open Enrollment Policy

- MC3's open enrollment policy is good because anybody can take this class. MC3 open enrollment policy is bad because anybody can take the class. Even those students not prepared for success.
- If you do not have basic knowledge about general biology, chemistry, physics, and math then you will find this class extremely difficult. You can still earn an "A" but you will need to learn some of the prerequisite knowledge you lack while you learn anatomy and physiology.
- An open enrollment policy also means that students are likely to start the class with different knowledge levels. It is like running a race where everyone starts the race at a different position. Some students in our class may already have a four year degree in biology. These students need this class to complete an entrance requirement for another program. Other students may not have had a science class in 20 years.
- Everyone is welcome to take the class. Anybody willing to study and dedicate themselves to learning this material can earn an "A".

## Lecture Room Conduct

- Before you come into the lecture room please turn off phones and put your phones and laptop computer in your backpack (see articles about the negative impact of digital devices in the lecture room on the Home Page). Studies on classroom learning show it is even better to leave digital devises in your car.
- Beverage is allowed in the lecture room. However, no food and no snacks are allowed in the lecture room.
- Once the lecture starts, the instructor will have the floor.
- Students are not allowed to "cross talk" during the lecture.
- Students need to be alert. If you fall asleep in the class then I will ask you to leave the room.
- Students are encouraged to ask question. When you have a question, please raise your hand so I can call on you.
- We will take a 10 minute break during lecture.

### Lab Conduct

- Beverage, food, and snacks are not allowed in the lab.
- Please wash your hands before coming into the lab. MC3 will provide gloves for you to wear in lab. Follow all lab regulations (see lab agreement).
- You may use your phones and computers in lab to access lab resources.
   (Please leave the lab if you need to talk on your phone.)
- You need to prepare for lab at home. Do not use your lab time to prepare for lab. Before you come to lab, select the lab objectives you want to identify in the next lab session. Then use your text book, lab book, my Web site lab resources, and Google to familiarize yourself with the location of the structures that you will identify on models and charts during the lab session. Before you come to lab, you should have memorized the names of the structures to be identified in the lab session. Don't come to lab without being prepared or without a clear goal.
- Your lab instructor is a "facilitator". This means the lab instructors are not expected to show students the lab objectives or lecture during the lab session. Lab instructors shall answer students questions and shall help students identify lab objectives. But the students need to ask for help!
- See lab safety form.

# Collaborative Leaning

- Health care requires a collaborative effort to care for a patient. No one person may take all the credit for curing the patient. So it is important to learn how to collaborate with other people. At MC3, we try to foster this idea in our lecture and lab classes.
- You are encourage to form a study group (groups of three are best) in your lecture and lab sections. Individuals should meet to compare and quiz each other using their Study Guide Questions. This will allow you to compare and edit your answers. If you make your Study Guide Q/A into flash cards then the flash cards are great learning tools to use in your study groups. Turn it into a "game" and you can have "fun" while you learn.
- Remember, when you answer the study guide questions you are preparing for the unit exams. You need to **start to learn this information as soon as we cover the topic in class**. Do not wait until just before the the exam and try to "cram" for the exam. You can't do it and you will fail the class.
- You will also have lab partners. In lab you will work in groups of four to six students. Your group should quiz each other using the lab charts and models.
- If you are serious about earning an "A" in this class, then this is how you do it! Don't work by yourself. This is a sure way to fail this class. Remember, the best way to advance your knowledge on any topic is to help someone learn the material!

### Your Grade

- You will take four Unit Exams.
- Each Unit Exams has a lab anatomy exam score (100 pts) and a lecture physiology exam score (100 pts). The average of the two tests will determine your Unit Exam score.
- There are three sections for each of the four Unit Lecture Exam.
- 1) Lecture test (80 pts)
- 2) Chapter Homework Assignments Watch Videos + Worksheets (10 pts)
- > 3) Chemistry test (10 pts) Best of two quizzes
- 4) Homeostasis definition (2)
- > 5) Plus an Extra Bonus Points! (4 pts) Submit Chapter Study Guide answers
- > To earn the Homework Assignment and Bonus Points you must turn the assignments in on time. If you turn in the assignments late then you will receive only half credit.
- Some videos feature the most brilliant scientists from around the world. The contributions made by these men and women are hard to measure. You will be entertained and inspired by watching these videos.

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# What is the best way to learn physiology? (By Telling a Narrative!)

- A narrative is a spoken or written account of connected events (i.e. factoids). So, a narrative is simply a story. Every good story needs to have a beginning, middle, and end.
- So, to learn human physiology, you first need to memorize a few factoids. These are like the pieces of a puzzle or the content of your story. As you connect the "factoids" together you will create your story about the human body. At first, the story should be simple. But as you learn more factoids, you will add the new factoids to your story. When you tell your story to someone, remember to make sure you include a beginning, middle, and end.
- Here is some advise from someone considered to be the most brilliant scientist ever born in the United States. He said that this is the best way to see if you really understand the subject. Tell your story to a ten year old child in a way so they understand the story. (Dr. Richard Feynman, PhD Theoretical Physics on How to Learn Anything)
- So learning physiology should not be hard. You just have to practice telling your story.

## Things You Need To Do

- First, you need to "unleash your imagination". You need to image your body not as a monolithic structure but as a collection of cells. The cells are made up of molecules which are constructed by even smaller structures called atoms. You can't see atoms but you and everything else in the universe are constructed from atoms. This may seem strange but it is true. So, to learn human physiology you need to use your imagination!
- Every day, you need to make quiet time for yourself. This is time when you can think. This is different than your study time. Quiet time is like a day dream state of mind. Einstein said that his quiet time was his most important time. Close your eyes and let your mind drift among all the factoids you know. It is here, in your quiet time, where you will start to understand human physiology.
- Ask yourself questions about how your body works. How do you move? Why do you eat? How do you remember where you parked your car today or yesterday? What is a smell? What is pain? What is consciousness? There is an endless list of questions you can ask. You need to be passionately curious!
- Lastly, you need to trust me. You need to believe that when I ask you to do something, it is only because I want to help you achieve your career goal. You can not learn everything that there is to know about human physiology in 16 weeks. But you can start to build a solid foundation now that will prepare you for a successful career in health care.
- Preparation + Opportunity = Success

### Preparation = Is the Pathway to Success

- Here is what you need to do throughout the semester to be successful in my class.
- Before we cover the chapter in lecture you need to do the following. You do this at home or in the library before you come to class. This is what I expect. This is the "preparation". If you can't do this then you should drop this class now. We (that means you and me) can not succeed unless you prepare for lectures and labs. If you don't prepare, then we will both fail!
  - First, read the the textbook for that day's lecture.
  - Preview the online lecture slides to be covered in the day's lecture.
  - Answer the Chapter Study Guide Questions before you come to class. If you can not find an answer or if you want to confirm your answer is right, then first ask one of your classmates to see their answer. If you still are not sure, then ask me in our QA session. This is what active learning is!
  - > As you prepare for lecture, write out questions to ask in class.
- Before coming to lab:
  - Determine the lab objectives you need to identify for the next lab session
  - At home, use your textbook, lab book, and Web resources to identify the location of the selected lab objectives.
  - > In lab, identify these selected lab objectives using the lab charts and models.
  - In your lab group, quiz each other.
  - At the beginning of every lab session, review all lab objectives identified in previous lab sessions before you start to learn new structures.
- This course requires daily study time (including those days when we have class). You must prepare for lectures and labs. You will also need to set aside time each day to review all learning objectives covered in the current unit.

#### What are opportunities?

- Opportunities are what you prepare for. If you are not prepared for an opportunity then you will not be able to take advantage of the opportunity. Sometimes in life, you may only get one chance at an opportunity. So, opportunities should never be taken for granted.
- What are the opportunities you have in this class?
  - Labs
  - Lectures
  - Lab quizzes and exams
  - Lecture exams
- Proper preparation for a lecture class is critical for the success of our class. If you come to lecture prepared then we can spend our time to answer your questions in a QA session. As I answer your question(s), I may go to particular slide(s) to help you better understand the topic. We now can have a "discussion about the material" instead of me simply reading my power-point slides to you.
- This means everybody in the class must come to class prepared. If the overwhelming majority of the students do not come to class prepared then the QA session crumbles.
- If you fail to prepare for the lecture sessions, then I will need to go back to the old boring
  routine of me reading power-point slides to students. Now, I am doing your preparation for
  you in class. This is what you should have done at home. So, you have a vote on how the
  class is going to be structured.

### How Can the Learning Center Help You Succeed in Anatomy & Physiology

# The Learning Center offers a variety of resources to enhance your studies in anatomy and physiology.

- Tutors Need help understanding concepts or would like to be quizzed on lab material
  Our tutors can help you with this! We currently have support onine and at both campuses.
  Visit https://web.penjiapp.com/schools/macomb/communities/macomb-lc-rws for more
  information
- Lab Practice The Learning Centers have a majority of the models fond in your classroom, free for you to use during all operational hours. Learning Centers, roughly two weeks before our actual exam date! Want to quiz yourself at home? Check out anatomy lab Quizlets at http://quizletcom/ScienceScience21/folders
- Lecture Study Materials For each unit, we have a variety fo extra study worksheets. Most of these can be found in the biology model areas at both campuses. Don't see a specific topic worksheet you are looking for? Let us know and we can make on for you.
- Learning Center's Canvas Page The learning Center's Canvas page has a variety of resources as well! There are lab study packets with keys available to you as well as additional information about our services and direct links to our tutoring system Check it out at https://online.macomb.edu/courses/37602

## Carpe diem

Carpe diem is a phrase that comes from the Roman poet Horace (65 BC to 8 BC). Carpe diem means literally "Pluck the day", though it's usually translated as "Seize the day".

For students, a better translation might be "Do everything you can do today to make tomorrow better".

Remember, the time you spend to prepare for your lectures and labs, and the study-time spent to learn the Science Department's Learning Objectives, is an **investment in your future.** 

You are the only person that can place a value on your education!

Ask yourself, "Where do I want to be next year, three years from now, or ten years from now". Time is your enemy and it is the most valuable asset you have. You will be rewarded for the sacrifices you make today by having a brighter future tomorrow. Seneca (another Roman orator) said, "It is not that we have a short space of time, but that we waste much of it."

### Carpe diem!