

# BI 216: Anatomy & Physiology I

Lecture Syllabus – Spring 2019



**Instructor:** Shannon Crocker

**Email:** [scrocker@mvcc.edu](mailto:scrocker@mvcc.edu)

**Phone:** (315) 731-5843

**Office Location:** Payne Hall (PH) 371

**Office Hours:**

| Monday          | Tuesday             | Thursday        | Friday          |
|-----------------|---------------------|-----------------|-----------------|
| 9-10am<br>PH371 | 10am-12pm<br>WH129J | 12-1pm<br>PH371 | 9-10am<br>PH371 |

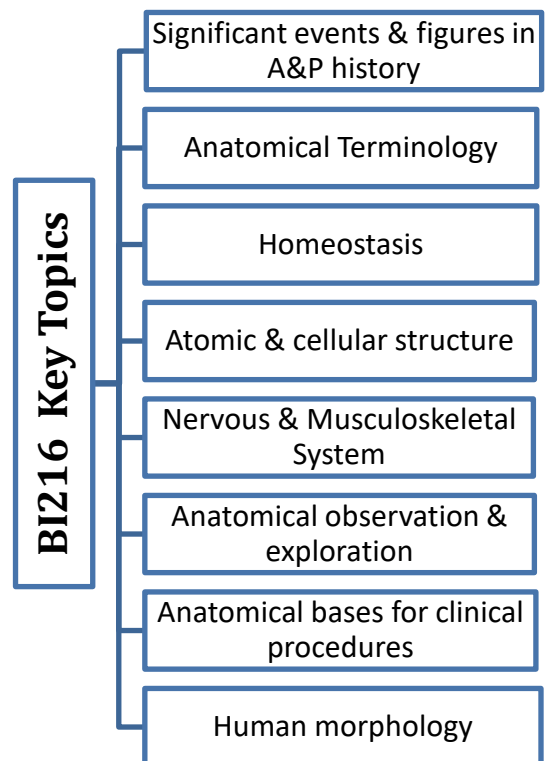
***This course syllabus is a contract between the instructor and the student. Be sure that you completely understand the information presented. You will be held accountable for what is in this syllabus.***

## Course Description

This course covers the structure of the human organism at the macroscopic and microscopic levels, its function, and the regulatory processes that operate within a living system. It introduces general anatomical, physiological, and chemical organization, and includes discussions of the integumentary (skin), skeletal, muscular, and nervous systems. Laboratories involve vertebrate dissection, the use of human skeletal materials, non-invasive human experimentation, and possibly animal experimentation. In addition, lab exercises will involve the use of a variety of human body representations which could include reference to cadavers, models, histology, plastinated specimens, and videos.

**Prerequisite:** One year of high school chemistry or equivalent preparation or permission of the Dean for the Mathematics and Natural Sciences Department. Students enrolled in Health Sciences programs are recommended to complete this course before beginning their specialized program coursework.

**Credits allocated:** 4



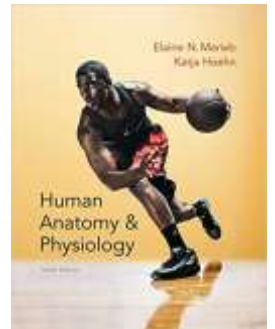
## Student Learning Outcomes

1. The student will be able to demonstrate knowledge of the historical bases of anatomy and physiology as a natural and applied science by describing the scientific contribution(s) of selected significant individuals from the past.
2. The student will be able to correctly and accurately use anatomical terminology when describing the human and nonhuman structural plan through the completion of a variety of assessments. This outcome will be addressed in lab using human or animal specimens, or anatomical models while completing hands on inquiry based lab exercises.
3. The student will be able to demonstrate knowledge of homeostasis by completing a variety of assessments that involve organ systems and their role in the maintenance of a stable internal environment.
4. The student will be able to demonstrate knowledge of atomic structure and its relationship to living matter by completing a variety of assessments.
5. The student will be able to demonstrate knowledge of basic cellular structure and how it contributes to the four basic tissue types along with the integument by completing a variety of assessments.
6. The student will be able to demonstrate knowledge of cellular electrophysiology including membrane potential, local potentials, action potential and related topics by completing a variety of assessments.
7. The student will be able to demonstrate knowledge of the anatomy and physiology of the nervous system through the completion of a variety of assessments. This outcome will be addressed in lab using human and animal specimens, or anatomical models while completing hands on inquiry based lab exercises.
8. The student will be able to demonstrate knowledge of the anatomy and physiology of the musculoskeletal system and its contribution to the production of movement by completing a variety of assessments. This outcome will be addressed in lab using human and animal specimens, or anatomical models while completing hands on inquiry based lab exercises.
9. The student will be able to demonstrate the ability to collect and analyze data in lab and evaluate quantitative information relating to musculoskeletal physiology.
10. The student will participate in the processes of anatomical observation, anatomical exploration, and anatomical discovery through the completion of a variety of assessments. This outcome will be addressed in lab using human and animal specimens, or anatomical models while completing hands on inquiry based lab exercises.
11. The student will observe and recognize the significance of the structural changes associated with aging and various selected pathologies. This outcome will be addressed in lab using human and animal specimens, or anatomical models while completing hands on inquiry based lab exercises.

12. The student will observe and verify the anatomical bases for selected clinical procedures. This outcome will be addressed in lab using human specimens or anatomical models while completing hands on inquiry based lab exercises.
13. The student will compare human morphology between same sex and opposite sex individuals. This outcome will be addressed in lab using human specimens, or anatomical models while completing hands on inquiry based lab exercises.

## What Materials Do I Need?

- **Textbook:** Marieb, Elaine N. & Katja Hoehn, *Human Anatomy & Physiology* – any edition. Yes, you need a textbook!
  - There is a copy of the textbook on reserve in the Library (both Utica and Rome campuses). The reserve copies are for in-library use only. There is a scanner available to scan sections of the book.
- **Brightspace:** Accessing Brightspace for online materials on a regular basis is required for this class. The BI216 Blackboard site includes announcements, notes, and assignments. Please be sure to check the site often. If you have trouble logging in to your Blackboard account, please contact the Help Desk in IT 139 at 315-731-5711.
- **Pencil:** Exams will be given in Scantron form. You are required to bring a number two pencil with you to all exams.



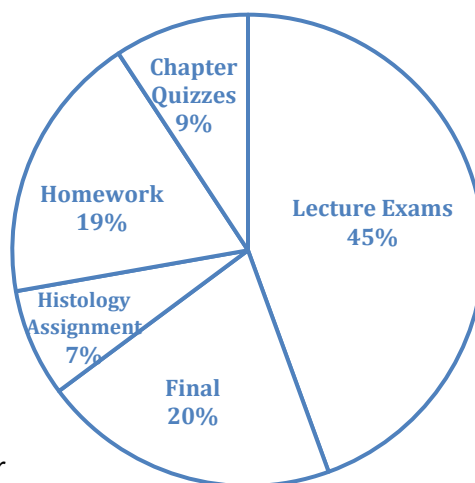
## How Is My Grade Calculated?

Your grade for A&P I is determined by combining your lecture and laboratory grades. **Lecture is two thirds and laboratory is one third of your overall grade.** Lecture grades are determined by your performance on the following: Lecture exams, chapter quizzes, homework assignments, in-class assignments, and a comprehensive final exam. In regards to preparation, I expect that you will review your notes after each class and ask questions on material that you do not understand. Graded exams and assignments will be returned to you as soon as possible.

**College policy and FERPA regulations prevent me from issuing grades over the phone or via email.** Please do not email me asking for your grade. You are welcome to stop by my office to discuss grades.

## Lecture Grade Distribution

|                      |                             |
|----------------------|-----------------------------|
| Lecture Exams (1-3)  | 240 points (80 points each) |
| Comprehensive Final  | 110 points                  |
| Chapter Quizzes      | *50 points                  |
| Histology Assignment | 40 points                   |
| Homework Assignments | *100 points                 |



*\*Points are an approximation and may vary during the semester*

***\*\*As a general rule, to be successful in A&P I lecture, it is expected that students will complete two hours of work outside of the classroom for each hour spent in the class. \*\****

### Lecture Exams and In-class Assignments:

Lecture exams and in-class assignments will be given as announced in class. Make-up exams or assignments will only be provided under *exceptional circumstances*. If you miss an exam or in-class assignment, I expect that you notify me within 24 hours. If I find your excuse valid, I may allow you to take a makeup exam/assignment during my office hours with a 5 point reduction. In addition, you will take a different version of the exam. Also, expect that I will ask for documentation to verify your absence. If these steps are not followed, then you may receive a zero for the exam/assignment. Scantrons to lecture exams will be provided to students once grading is completed. If you wish to review the exam or in-class assignments in detail, you may do so at any time during the semester by attending my office hours or by appointment.

### Withdrawal:

A formal withdrawal from the course is looked upon more favorably in regards to your transcript, so if you need to withdraw formally do so by the designated date (**4/10/2019**).

## Academic Integrity

MVCC's School of Science, Technology, Engineering and Mathematics is determined to maintain a high standard of academic integrity. Any misconduct, including cheating on quizzes or exams or copying answers from another on assignments is subject to disciplinary action. The first incident of academic dishonesty will be assigned a zero for the assignment or exam in question. A second incident of academic dishonesty will result in an "F" for the course. The above mentioned consequences of academic dishonesty will be implemented along with additional actions set forth by Mohawk Valley Community College.

For detailed information regarding the College's policy for Academic Integrity refer to your student handbook or the MVCC Catalog <https://www.mvcc.edu/student-handbook/academics/academic-integrity-policy.php>

## What should I do if I need HELP!

1. *See a TUTOR!* Tutors are available on both the Utica and Rome campuses. Reserve a time to get some help! Tutor appointments can be scheduled online. Visit the Learning Commons' website to make an appointment <https://www.mvcc.edu/learning-commons/tutor-appointments/index.php>
2. *Visit ME during office hours!* I enjoy when my students stop by and would be happy to help you with any topic you might need more information on.
3. *Visit the Brightspace Course site!*
4. *Put together a study group of friends!* Working in groups is highly beneficial, not only for the study help but also for the camaraderie!
5. *Work with a Student Support Advisor!* SSAs are there to help you with any difficulties, academic or otherwise. I would be happy to refer you, or visit the Advisement Office on the first floor of Payne Hall directly!



# Don't Miss this Information

## *Arrival and Attendance:*

- Attendance to each lecture for the entire time allotted is **mandatory**. I expect that you will be both punctual and prepared upon arrival. If you arrive late and I have already taken attendance your presence may be recorded as an absence. Three consecutive absences may result in having your name deleted from the lecture attendance roster for the course.
- **Arriving late more than three times in the semester will result in your overall average being dropped by two points each additional time you are late.**
- Leaving after the start of class for any reason (including bathroom trips) will result in you being marked as absent. Therefore, please use the restroom and/or purchase your drink before arriving.
- You are responsible for all material and announcements I make during class whether or not you are present.
- Students with perfect attendance will have three points added on to their total points earned for the semester. Students with one absence will have two points added on to their total points earned. However, inappropriate class behavior (including use of electronics & phones) will result in a forfeit of mentioned points.



## *Professionalism:*

You will be asked to participate in class. Repeatedly. Please be kind to your classmates. They are “in this with you!” Get to know each other, work together, collaborate, study together, and be respectful of one another’s similarities and differences. We all have different preferences and learning styles. Show respect (this applies to the teacher too!).



Mohawk Valley Community College chooses respect for all individuals, and classroom disruptions will not be tolerated. Disruptive behavior includes texting and talking with your classmates while instruction is occurring, leaving class to use the restroom, get a drink/snack, and eating noisy food in class. If such disruptive behavior persists, you may be asked to leave. Furthermore, your attendance points may be forfeited. Continued inappropriate behavior will make you subject to the sanctions included in the college catalog and student handbook. Also, I expect respectful language and treatment of the instructor and fellow students both in person and via email.

**Email Etiquette:** When sending your instructor an email please conform to the proper etiquette for sending professional emails. For example, your email should start with “Hello Professor Crocker,” or “Hi Mrs. Crocker,” **not** “Hey” or “Hi.” You should also avoid all forms of shorthand, including text messaging abbreviations. Please no “lol” “r” “u” “l8r.” You should also make a concerted effort to use proper grammar, punctuation, and spelling in emails. Pretend you are writing to your boss – now is a good time to practice for the future and break any bad habits.



### *Note Taking:*



Plan to take thorough notes in a notebook. Use whatever note taking system works best for you to retain information. The “Note Taking Strategies” on the college website provides different ways to take effective notes: <https://www.mvcc.edu/student-success/note-taking.php>

Also note: If you miss class, it is up to you to obtain the missed assignments/materials from a classmate.

### *Mobile Devices in the Classroom:*

College policy prohibits student use of technologies not relevant to classroom, laboratory, studio, or clinical settings. This includes, but is not limited to computers, cell phones, electronic communicating devices, MP3 players, and video/photo capture devices. These mentioned devices should be out of sight upon entering the classroom for instruction. Instructor discretion may be exercised to determine if the technology is a component of the learning environment. The first time you are caught using a cell phone, you will be issued a verbal warning. Each additional time you will be marked as absent, thereby lowering your grade.



# Tentative Calendar

| TOPIC                                    | CHAPTER             |
|------------------------------------------|---------------------|
| The Human Body: An Orientation           | 1                   |
| Chemistry Comes Alive                    | 2                   |
| Cells: The Living Units                  | 3                   |
| <b>Lecture Exam</b>                      | <b>1- 3</b>         |
| Fluid, Electrolyte, & Acid-Base Balance  | 26                  |
| Tissues: The Living Fabric               | 4                   |
| Integumentary System                     | 5                   |
| Bones and Skeletal Tissues               | 6                   |
| <b>Lecture Exam</b>                      | <b>26, 4-6</b>      |
| Muscles and Muscle Tissue                | 9                   |
| Fund. of Nervous Sys and Nervous Tissues | 11                  |
| <b>Lecture Exam 3</b>                    | <b>9 &amp; 11</b>   |
| The Autonomic Nervous System             | 14                  |
| <b>Comprehensive Final Examination</b>   | <b>All Chapters</b> |

**\*\*Chapters 7, 8, 10, 12, 13, and 15 will be covered during presented lab exercises.\*\***

**Note:** The preceding topic outline provides a general roadmap of what will be covered in lecture. The actual time allotted to specific topics and the scheduling of exams will be determined by the instructor.



# Important MVCC Statements

## **Disability Self-Identification Statement**

I would appreciate hearing from anyone in the class who has any type of disability (e.g., physical, learning, mental health, ADHD, autism, vision, hearing, or any temporary situation such as a broken wrist, etc.) which may require some accommodation. Please email me or contact me during my office hours so that we can discuss your needs. Before services can begin, you must also contact the [Office of Accessibility Resources](#), through this [link](#) on the MVCC website; email them at [oar@mvcc.edu](mailto:oar@mvcc.edu) or call them at 315-792-5644 and leave a message. Office of Accessibility Resources (OAR) Staff members will review your documentation, determine your eligibility for accommodations, and decide what those accommodations will be. In this COVID situation, if you are diagnosed with COVID and need accommodations during the course, this office can support you as well.

## **Sustainability**

Mohawk Valley Community College is committed to development and implementation of a comprehensive sustainability plan. To that end, we are beginning by asking students, faculty, and staff to actively participate in energy conservation measures and proper recycling on campus. The Green Bins in every classroom are intended for all recyclables. They can take Paper, Plastic, Metal and Glass. Containers should be clean\* and empty. Any materials that cannot be recycled should be placed in garbage cans. It is also important to turn off lights and computers when leaving a room. Together we can make an impact on conserving our resources. Remember to reduce, reuse and recycle! \*Clean means free of food residue, so pudding and yogurt containers should be rinsed. Drink bottles need to be empty but do not need to be rinsed.

## **Classroom & Civility**

Mohawk Valley Community College is committed to civility in and out of the classroom. MVCC believes everyone has the right to an environment that creates the safe opportunity for educational, professional, and social development. MVCC recognizes its responsibility to model and encourage a culture of civil behavior.

## **Title IX**

Title IX states that no person in the United States shall be subject to sex discrimination, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving federal financial assistance. Sex discrimination includes sex-based harassment in the form of quid pro quo harassment, hostile environment harassment, sexual assault, dating violence, domestic violence, stalking, and discrimination on the basis of sex stereotypes, sex characteristics, pregnancy or related conditions, sexual orientation, and gender identity.

Disclaimer: The policies described in this syllabus are subject to change at the discretion of the instructor. Any changes will be communicated to you in a timely manner. 😊