

# **Biomedical Engineering STEM Lab**

Human Anatomy & Physiology Honors

Biomedical Engineering Honors

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Dear Parents and Students,

I want to welcome you all to the 2018-2019 school year at Nikola Tesla STEM High School and for many of you the beginning of your senior year! This syllabus is to help you understand this course and my classroom procedures. Please take time to thoroughly review all information in this syllabus and contact me with any questions or concerns.

## **Course Descriptions: You are taking 2 courses!**

### **Human Anatomy and Physiology Honors (Periods 1 & 5)**

This course is an in-depth study of human anatomy and physiology focusing on the eleven human body systems: integumentary, skeletal, muscular, digestive, urinary, cardiovascular, respiratory, nervous, reproductive, endocrine, and lymphatic. Primary study within this course includes terminology associated with the human body and the relationships between the structure and function of organ systems. Lab exercises in this course include animal dissections and physiological tests with Vernier probeware. This course will be taken in conjunction with the Biomedical Engineering course to provide students with the knowledge needed to design and develop medical advances.

### **Biomedical Engineering Honors (Periods 2 & 6)**

This course is an extension of the Human Anatomy and Physiology Honors course. In this course, students will critically evaluate current medical practices, engage in communication concerning ethics associated with health, and research and develop improvements in medical technology. Biomedical Engineering will incorporate partnerships with local organizations and businesses and will require students to work collaboratively with each other and these partners.

## **Materials**

1. District assigned laptop and charger
2. Three-ring binder (for handouts)
3. 2 Composition notebooks
4. Textbook (Human Anatomy & Physiology, 9<sup>th</sup> ed Elaine N. Marieb)
5. Colored pencils (*recommended*)

Students need to have materials in class by **Thursday, 9/7**. Textbooks will be distributed in class.

## **Notes Outlines and Printed Materials**

Notes outlines will be posted to my Powerschool website after they are presented in class. Students are also expected to print assignments if requested by me. If a student needs help printing, they must see me BEFORE the school day begins. I will not allow assignments or notes to be printed during class time. I reserve the rights to deduct points from assignments or daily grades if students are not prepared for class.

## Grading

	Anatomy and Physiology	BioMedical Engineering
Exams / Lab Practicals	45%	N/A
Final	15%	15% (project based)
Quizzes	5%	5%
Papers and Projects	N/A	45%
Daily Work/Journal Club	15%	15%
Labs/Activities	20%	20%

Approximate Grading Scale (not all possible decimal grades are shown)

Average % Score	> 96	90	85	80	75	70	65	60	< 56
Grade	4.0	3.5	3.2	3.0	2.5	2.0	1.5	1.0	0.0

### EXTRA CREDIT:

There will be no individualized extra credit, so please do not ask. The instructor retains the right to create extra credit, but this is not a guarantee that it will be offered.

### WHAT IS MY GRADE???

It is recommended that you do not throw away your graded papers and that you keep track of your grades on a spreadsheet, such as excel. To figure out your current grade, please see the weighted averages above. Depending on how many tests have been completed the grade may be somewhat skewed in Skyward. Grades are NOT given, they are EARNED. If you are uncomfortable with a grade, please be prepared to take accountability for your effort and accuracy BEFORE discussing a grade.

### HOW DO I KEEP TRACK OF ASSIGNMENTS??

In an effort to streamline expectations, I will be creating a regular schedule for assignments schedule for each unit. Graded assignments can be tracked on skyward. If the assignment is LATE, a “missing” will be placed on the grade record until the assignment is turned in. LATE work is only accepted with approved accommodations or prior approval from the instructor.

Labs are extremely difficult to make up, because of the nature of our experiments, which often involve limited resources which may not last after the day of the lab. To support students, I will drop the lowest lab score. Multiple missing labs will require an appointment with the instructor to determine a plan to complete the course work in an alternative way. These plans are often labor intensive for both the student and instructor, and it will be in everyone’s best interest to try to be present on lab days (Thursdays and Fridays, for the most part).

### Late Work Policy:

**Assignments may not be turned in late.** Any class work or lab work not completed in class will be assigned as a homework assignment for that night. Each student is required to have this work completed at the beginning of class the following day. Any major assignments lasting over 3 class days will be announced and posted on Powerschool in advance, giving students time to prepare. **NO** late assignments will be accepted and tests will not be given at a later date (except for absent students).

### Make-up Work Policy

**Attendance is necessary to succeed in this course.** However, if a student is absent, assignments missed can be found either on my Powerschool site or in the make-up work folder located at the front of the classroom. Each student is responsible for asking a classmate what they missed and following up with me if they have questions. It is an expectation that each student is responsible for their own work

and will catch up when they return to school. It is not my responsibility to make sure you have gathered missed materials or to remind you to make up a test or quiz.

Students will have one week from their absence to clear any missed assignments, tests, or quizzes (although I would strongly suggest completing them sooner than this). If there are any extenuating circumstances concerning make-up work, **parents should contact me before the student returns to school or on the student's first day back to discuss their individual situation.**

## **Classroom Rules and Consequences**

Classroom Rules:

1. Students are required to follow all school rules as described in the Student Rights and Responsibilities packet (see LWSD website).
2. Students are required to bring materials to class daily.
3. Students are to be in their seats and ready to begin class on time.
4. Students are to respect each other at all times.
5. Students are not to disrupt class unless they have been given permission to speak.
6. Students should not leave the classroom unless they have permission (including restroom breaks).
7. Students should speak softly and stay on task when working in groups.
8. All lab safety rules should be strictly followed.
9. Students should act as professionals at all times – remember, being a student is your job. This means no profanity, no inappropriate dress, etc.

Inappropriate behavior, disrespect, etc will not be tolerated. Parents will be contacted for any discipline issues. For major issues, administration will be involved.

## **Academic Honesty**

Cheating in any way, shape, or form will not be tolerated in class. I have a ZERO TOLERANCE policy on cheating. **If you are caught cheating or copying another student's work, you will receive an automatic zero for the assignment or test without warning.** This includes all class assignments and homework as well as tests and quizzes. Per LWSD policy, you may lose credit for an entire course as a consequence of cheating. You are responsible for your own learning and are expected to complete your own work.

## **Electronic Devices**

Each student at STEM is assigned a laptop. The following are procedures for how to use these and other electronic devices in my classroom.

1. Students are expected to bring their district assigned laptop to class each day fully charged and functional. (I strongly recommend bringing your charging cable to school each day).
2. Students should save their work to Microsoft OneDrive (the district approved cloud storage). This ensures you will be able to access your work from any computer in case you have to use a loaner.
3. No extensions will be granted due to a computer issue. You are responsible for having access to your work even if using a loaner computer.
4. Laptops and other electronic devices should not disrupt instruction. I will give instructions on when and how to use your laptop in class. I reserve the right to ask for all laptops to be removed from desks. If electronic devices (including cell phones) are disruptive to the class or are keeping you off-task, they will be taken and parents will be contacted.
5. ***No printer or computer excuses are allowed! You are responsible for having your materials and assignments when they are due.***

## **College Credit Opportunity**

Students have the option of receiving 5 quarter hours of college credit through the University of Washington BIOL 118: Physiology. The Human Anatomy and Physiology curriculum meets the requirements for this college course. More information about this will be provided in class.

## **Office Hours**

My office hours are below. Please use these for makeup tests and extra help as needed.

**Monday – Friday 6:30-7:25am**

**Wednesday 2:20-3:40pm, or by appointment after school on Wednesday between 12:00 and 2:20**

**Assuming there are no faculty meetings.**

**If there is an urgent matter, or your parent would like to attend, please make sure you schedule an appointment.**

Thank you for reading the classroom procedures and syllabus! I look forward to working with you and hope to have a wonderful school year!