

BIO MEDICAL Principles of Biomedical Science

Sciences Program
Bel Air High School



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|---------------------------|------------------------|---------------------|------------------------|
| Instructor | Ms. Barry | School Phone | 410-638-4600 |
| Room | B306 | E-mail | kristen.barry@hcps.org |
| After School Hours | By appointment please! | | |
| School Counselor | Mrs. Knight | | |



PLTW:

Project Lead the Way is a non-profit organization that specializes in writing activity, project, and problem-based national curriculum for STEM education. Please visit www.pltw.org for more information.

Course Description:

This course provides an introduction to the biomedical sciences through exciting hands-on projects and problems. Students investigate concepts of biology and medicine as they explore health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They will determine the factors that led to the death of a fictional woman as they piece together evidence found in her medical history and autopsy report. Students will investigate lifestyle choices and medical treatments that might have prolonged the woman's life and demonstrate how the development of disease is related to changes in human body systems. The activities and projects introduce students to human physiology, basic biology, medicine, research processes, and allow students to design experiments to solve problems.

Course Outline:

- [Unit 1 – The Mystery](#)
- [Unit 2 – Diabetes](#)
- [Unit 3 – Sickle Cell Disease](#)
- [Unit 4 – Heart Disease](#)
- [Unit 5 – Infectious Disease](#)
- [Unit 6 – Post Mortem](#)

Materials:

- 1-2 inch binder
- 8 dividers with tabs
- Notebook
- Flash drive
- Pens/pencils

Lab Expectations:

CLOSED TOED SHOES FOR ALL LABS! If you don't have closed toed shoes on a lab day you cannot participate in the lab! Long hair pulled back and sleeves up too!

Grading:

Grades will be based on a point system. Graded assignments will include tests, quizzes, labs, projects, classwork, drills, and homework. Final grades will be determined by dividing the total number of points earned by the total number of points possible. Grades will be determined according to Harford County Public Schools policy:

A: 89.5-100% B: 79.5-89.5% C: 69.5-79.5% D: 59.5-69.5% E: 0-59.5%

Late Work/Make-Up Work

Late work is any work that is not turned in at the time that was specified for it to be collected. Work that is left at home or in lockers or is not present for any other reason is considered late. A 25% loss of the total points assigned for that work will be lost for each day late (i.e. Loss of 5 points on a 20-pt assignment for 1 day late; 10 points for 2 days late).

Students who are absent will have the number of days they are absent to turn in make-up work with no penalty but it is the student's responsibility to see me and obtain the work. Students who miss a test or quiz must see me to schedule a make-up date immediately upon their return.

Edline:

Grades and information will be posted on www.edline.net periodically throughout the year including IPR and end of quarter. Please make sure that you have an active account and that a student AND/OR parent email is available for communication. This is vital for class reminders and updates!

Academic Integrity:

Cheating, copying, and plagiarism are all forms of academic dishonesty. Cheating is any form of obtaining information unfairly and without authorization for a test, quiz or other graded assignment. Copying is the use of another's work with the understanding of a teacher that it is one's own. Unless a teacher has expressly stated in the assignment instructions that the task is one that is collaborative, it should be assumed that the assessment is an individual endeavor. Cheating, whether verbal, written, or computer generated, can involve, but is not limited to:

- Copying on tests
- Copying of homework
- Plagiarism of published works (including Internet resources)
- Multiple submission of work previously turned in for a grade by another student.
- Giving answers to a test or homework
- Discussion of test materials with others
- Using electronic devices to communicate any contents of homework, tests or quizzes
- Using electronic devices without teacher permission to acquire information during class hours