

Principles of Biomedical Science (PBS)



Course Code CTS-3030
1 Semester, 1 Credit

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Room B117

Information

*SFSD grading scale will be used. PLTW courses have *weighted grades* for SFSD students.

*Grades will be calculated using total points with a balance of ~50% assessment of labs/projects and ~50% quizzes

* Extra credit lectures/experiences will be offered but can only raise you grade by 1%

* Academic dishonesty will not receive credit. Students will cannot demonstrate their learning by turning in someone else's writing and/or work.

* Lack of student responsibility including late work, lack of preparation, make-up work will be handled on a case-by-case basis. Point deduction may be used if other interventions don't work.

* Students and parents can view grades on SFSD Infinite Campus.

*If absent, students should check our Google Classroom page to see our daily agenda.

Materials

- 3-ring binder with loose leaf paper
- pens and highlighter
- long pants and close-toed shoes for labs
- headphones/ear buds
- simple scientific calculator recommended
- Students will be issued a locker

Class Expectations

1. Your Best Effort
2. Kindness
3. Respect

Assessment

Students will demonstrate their knowledge through hands-on, real-world activities, projects, and problems connecting what we learn in the classroom to college and careers. In addition, each section will end with a summary quiz.

The Curriculum

Biomed students investigate, analyze, and document evidence to determine the cause of death of our patient, Anna Garcia. Students explore a range of careers in biomedical sciences as they learn content in the context of real-world, hands-on activities, projects, and problems used in biology, research, and medicine.

Unit 1 – The Mystery (crime scene investigation, DNA analysis, autopsy)

Unit 2 – Diabetes (disease characteristics, food science, treatments, new research)

Unit 3 – Sickle Cell (disease characteristics, genetics, chromosomes, inheritance)

Unit 4 – Heart Disease (structure, function, dysfunction and intervention)

Unit 5 – Infectious Disease (intro to pathology, bacterial analysis)

Unit 6 – Post Mortem (final cause of death for Anna Garcia)

Students will have access to course curriculum at my.pltw.org under the "courses" tab.

