

Principles of Biomedical Science - Mrs. Cerra

Course Description:

Principles of Biomedical Science is a full-year high school course in the Project Lead the Way (PLTW) Biomedical Science program. This course serves to provide foundational knowledge and skills for subsequent courses in the PLTW Biomedical Science program as well as engage students in how they can apply this content to real-world situations, cases, and problems such as solving a medical mystery case, diagnosing and treating a patient, and responding to a medical outbreak.

PBS is a hands on, project based learning course. Students will be expected to complete coursework independently and in groups. This is a fast paced course that provides an in depth look at many topics covered in Biology.

Materials:

- 2" 3-ring binder or 2 pocket folder (can have prongs)
- Writing utensils (pencils/pens)
- 1 box of nitrile gloves
- Headphones (must be wired to plug into Chromebook)

Course Topics

- Medical Investigation-shadow members of the police, forensics team, and medical examiner as a mysterious death is investigated
- Clinical Care-intern at a total care clinic that sees routine patients, walk-ins, and follow ups
- Outbreaks and Emergencies-investigate a mysterious outbreak at a local hospital and shadow a medical emergency team as they respond to an emergency in the field
- Innovation-intern at a research and design lab to explore 3D modeling, drug design and delivery, bioactive compound research, and innovating products for space travel

Course Expectations:

- Grading
 - This class is not weighted and grades will consist of unit assignments, projects, and assessments (quizzes and tests)
 - Grades will be entered in PowerSchool so be sure you are checking it on a regular basis.. Every effort will be made to ensure that grades are posted in a timely fashion.
 - There is an End of Course exam that will be administered at the end of the year (late May)

- Late/Absent work
 - While Mrs. Cerra reserves the right to address absent and late work on a case by case basis, the general expectations will apply:
 - If you are absent, it is your responsibility to check what you missed on Canvas, ask questions, or arrange a time to make up any assessments or labs.
 - If work is turned in late, a late work deduction will be applied (minimum of 10%, maximum of 25%).
 - As per the KJHS handbook, you will have the same number of days that you missed to turn in/complete any missed work (ie-if you are absent for two days, you have two days to complete what was done in class while you were absent).
- Technology usage
 - As this class has no textbook, we will use Canvas and the PLTW Principles of Biomedical Science website
- Electronic device usage policy
 - As per the KJHS handbook, cell phones are not to be used during class. This includes using a smartwatch for anything other than referencing the time.
- Food/drink
 - As per the KJHS handbook, food (including candy) and drinks (other than water) are NOT allowed in the classroom.
- Latex allergies
 - Latex is used in this classroom in a few of the models; please let Mrs. Cerra know if you have a latex allergy.