



Grandview High School

Dr. Lacie J. Schilperoort, PharmD

ljschilperoort@gsd200.org

Principles of Biomedical Science Syllabus

Course Description

*In Principles of Biomedical Science (PBS), the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person, Anna Garcia. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged her life. The activities and projects introduce students to **human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.***

Course Goals: Students will:

- think critically and problem solve
- write scientifically and analyze scientific writing
- master technology skills including internet, presentation & spreadsheet software, and other computer programs
- master relevant lab skills using proper lab equipment
- use proper medical terminology
- gain a deeper understanding of the Biomedical Sciences field including content and career aspects through **HOSA**.

Future Health Professionals, formerly known as Health Occupations Students of America (HOSA), is a national career and technical student organization endorsed by the U.S. Department of Education and the Health Science Technology Education Division of Association for Career and Technical Education. HOSA is a great opportunity for **PBS** students to use the skills they learn to compete at the state and international level. In HOSA, students will volunteer on and off campus as well as implement awareness campaigns for the student body. There is a \$30 membership fee, which includes state and national memberships, and competition testing materials. HOSA t-shirts are \$20. Students have an option to only pay HOSA membership fees for \$30 or pay the membership fee and purchase a t-shirt for \$50. Please make checks payable to GHS HOSA. HOSA membership is not a requirement for PBS.[CKK2]

Required Course Materials

- Three ring binder with tabbed dividers
- Pen/Pencil
- Laboratory Journal – spiral notebook or composition book (separate from your class binder)
- Recommended: USB / Flash Drive (for saving work on our laptops)

Course Policies

Attendance / Absences / Makeup Work: You must arrange, within one week of your return, to make up class work, tests, quizzes, and laboratory work missed due to documented, excused absences. Make a point of talking to me about your situation so that we're both on the same page!

Unexcused or undocumented absences will result in a zero for missed classwork assignments, until they are made up. (Take responsibility for your work - it is up to YOU to get your make up work - not for me to give it to you.)

Classroom Rules / Expectations :

- Be on time and ready to learn
- Be your best self
- Be respectful
- Be responsible

By Permission:

- Food/drink
- Cell phones
- Headphones

Assignment Policy: All class assignments will be submitted online using the course website on **Canvas**. Late work will receive only partial credit (after the FIVE day rule), and you are **expected** to keep up-to-date on your work and **be aware of all due dates**. Cheating will not be tolerated and will result in a zero on that assignment (for both the copier and anyone who allows the other to copy).

Grading Policy & Distribution:

- **Assessment** - 45% (lab report, quizzes, exams)
- **Activities**- 30% - (labs, projects)
- **Assignments**- 15% (classwork and homework)
- **Participation**- 10% (entry task, exit task, leadership, discussion)

4 (A) = 93-100

2.3 (C+) = 77-79.99 [CKK3]

3.7 (A-) = 90-92.99

2 (C) = 73-76.99

3.3 (B+) = 87-89.99

1.7 (C-) = 70-72.99

3 (B) = 83-86

1.3 (D+) = 67-69.99

2.7 (B-) = 80-82.99

1 (D) = 60-66.99

Earning College Credit Students enrolled in this course will have the opportunity to earn college credit from several colleges and universities if they earn no grade lower than a "C", maintain at least a 3.0 GPA in the 4 PLTW courses, and earn at least a score of 6 on the PLTW End Of Course Assessment. All students are required to take the **PBS EOC** test, which is administered online through the PLTW website.