

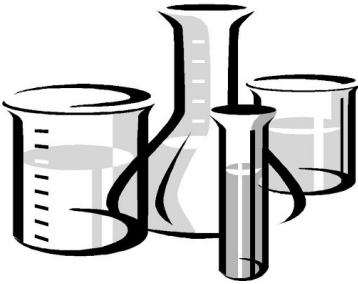
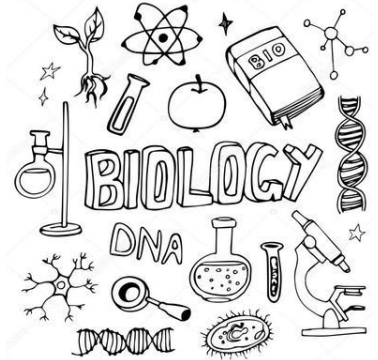
Biology vs. Principles of Biomedical Science

Trying to decide which class is best for you? Here is the breakdown!

Biology and Principles Biomedical Science (PBS) both cover the Next Generation Science Standards (NGSS) and count towards the life science requirements for graduation as well as the A-G college requirements. At the basic level, Biology is very broad and covers both animal and plant biology while PBS is specifically related to human health and disease. Biology and PBS are both lab classes, however PBS will have more focus on hands on learning and labs. For each topic in PBS there is at least one lab to demonstrate skills.

Biology is an all-inclusive, college preparatory course designed to introduce students to the major concepts of modern biological science. These concepts include study of cell biology, genetics, ecology, evolution, and basic physiology. Classroom discussion, lectures, laboratory activities, dissections and projects are used to enhance the learning process.

Biology Honors is designed to give students an in-depth look at the many facets of Biology. The course uses extensive laboratory experiments, observations, simulations, dissections and field work to give each student experience in the scientific process and the opportunity to sharpen observation skills, interpret data and improve written communication. The course begins with the basics of biochemistry and experimental design and moves on to the study of the cell, transport, mitosis, meiosis, DNA, protein syntheses, genetic engineering, genetics, ecology, & evolution. This class earns an additional cumulative GPA point.



Principles Biomedical Science Honors (PBS Honors) is the introductory course of the four year PLTW Biomedical Science program. In this course students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's 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. A portfolio will be due at the end of each semester. This class earns an additional cumulative GPA point.

Which class should I choose?

In terms of future plans, Biology is life science education for students who may or may not be interested in pursuing science related career or science careers. PBS is an avenue for students who would like a greater focus on the medical field or laboratory science related careers. Students should be aware that ALL science courses are challenging and will require time and effort to be successful. Due to the increased lab work in Biomedical Science H, this class does tend to produce a greater workload than Biology.

